

Appendix F

Review of Previous ESA, Remediation, and Regulatory Closure

C A M P B E L L · G E O , I N C .

ENGINEERING GEOLOGY · HYDROLOGY · GEOENVIRONMENTAL SERVICES

Review of Previous Environmental Site Assessment, Remediation, and Regulatory Closure

**Former Orchard Services Property
399 Linden Avenue
(portion of APN 004-105-015)
Carpinteria, California**

March 22, 2013

Prepared for:

**City of Carpinteria
5775 Carpinteria Avenue
Carpinteria, CA 93013**

**Attn: Mr. Matthew Roberts,
Director of Parks and Recreation**

Prepared by:

C A M P B E L L · G E O , I N C .

CAMPBELL·GEO, INC.

ENGINEERING GEOLOGY · HYDROLOGY · GEOENVIRONMENTAL SERVICES

March 22, 2013

City of Carpinteria
5775 Carpinteria Avenue
Carpinteria, CA 93013

Attention: Matthew Roberts
Director, Parks and Recreation

Subject: Review of Previous Environmental Site Assessment,
Remediation, and Regulatory Closure
Former Orchard Services Property
399 Linden Avenue, Carpinteria, California

Dear Matt:

INTRODUCTION

Pursuant to our proposal dated February 1, 2013, we are pleased to present this letter with a review of the previous investigation and regulatory closure at the 399 Linden Avenue site. The site is an approximately 1.4-acre portion of Santa Barbara County Assessor's parcel number 004-105-015. It is a vacant field located northwest of Linden Avenue, southwest of the Union Pacific Railroad tracks and southeast of Holly Avenue. Residential properties and a dirt parking lot for "The Spot" hamburger stand are located on the southwest side of the site. A complete copy of the entire regulatory "LUFT" file provided to Campbell·Geo in 2012 by the County of Santa Barbara Fire Department, Fire Prevention Division (FPD), is attached to this letter report (Appendix C). The agency file for 399 Linden Avenue pertains to the Orchard Services facility, a Leaking Underground Fuel Tank (LUFT) site which was assessed, remediated, and then granted regulatory closure by FPD in 1996 (LUFT Site #50119). We have completed the following tasks:

- (1) Provided a brief site history and a summary of previous environmental site investigations and remedial actions as contained in documents and reports we have obtained from SBCFPD.
- (2) Provided a summary of site land use since the LUFT site was closed relevant to hazardous material or petroleum use/storage.
- (3) Conducted a site walk-through to summarize and document current land use.

HISTORICAL SUMMARY

Historical aerial photographs and Sanborn Fire Insurance Company maps were reviewed to evaluate early site history of the property. Copies of the maps and aerial photographs are included in Appendix B.

The 1916 Sanborn map does not show the subject site, but does show a main railroad line and two track sidings, including one adjacent to the 399 Linden site. The 1929 Sanborn map shows no structures on the site except a pair of "S.P.Co.W.TKS" at "EL. 20' on Wood PLFMS." We interpret these to be water tanks on platforms, probably used to service steam engine locomotives. An additional structure "Tool Ho." is an apparent tool shed and is located adjacent to the water tanks. All three were located roughly halfway between Linden and Elm Avenues and approximately 100 feet south of the railroad tracks.

In the 1929 and 1938 aerial photographs, those structures are possibly visible, although it is not possible to be certain due to the photographic scale and quality. The rest of the site does appear to be vacant in those 1929 and 1938 photographs. In the 1947 aerial photograph, structures in the approximate location of the subsequently identified Orchard Services business are visible. In the 1956, 1967, and 1975 photographs, those two structures are more clearly visible, but the rest of the site is vacant or occupied by an access road and/or parking for Orchard Services. The buildings are still onsite in the 1989 photograph, but are no longer visible in 1994, when the site appears to be vacant. The 2005 aerial photograph also shows a vacant site.

The underground storage tanks (USTs) were reportedly installed at the site in the 1940s, based on data in the county file. In response to a request from the County of Santa Barbara in February 1990, Southern Pacific Environmental Services (SPEvS) removed three fuel USTs from the site. Based on the County of Santa Barbara's Case Closure Summary (February 1996), a 250-gallon tank and two 1,000-gallon tanks were removed. Petroleum hydrocarbons detected in confirmation soil samples beneath the USTs indicated that further investigation was required, as directed in a March 27, 1990 letter from the County to SPEvS.

SPEvS performed soil remediation activities at the site consisting of at least two stages of excavation and subsequent soil sample analysis. The county's case closure summary indicates that, between 1990 and 1992, a total of 514 cubic yards of soil was removed from the site. SPEvS indicated that laboratory analysis of nine confirmation soil samples taken after the final excavation demonstrated that no additional removal was necessary.¹ However, the county's case closure summary states that "one small area along the railroad tracks contained TPH as stoddard solvent at 2,800 ppm." That sample appears to have been collected at a depth of 10 feet from the north side of the soil excavation in 1991.

Three 2-inch diameter groundwater monitoring wells were installed to test groundwater for the presence of gasoline near the former USTs. The wells were sampled three times (December 11, 1991, March 31, 1992, and January 11, 1996) and analyzed for BTEX and TPH as gasoline, diesel, and stoddard solvent in accordance with EPA Methods 8240 and 8015 - modified respectively. TPH and BTEX compounds were not detected in any of the samples during either sampling event conducted in 1991 and 1992.²³⁴ In 1996, only BTEX was analyzed in groundwater and was not detected in any sample.⁵

In a letter to the county dated April 28, 1992, SPEvS recommended that the UST site could be closed based on the soil and groundwater sampling results. After completing the third round of sampling (as the RWQCB subsequently requested), site closure was granted in a letter dated March 4, 1996 from the County of Santa Barbara. Well abandonment was summarized in a May 8, 1996 report by Terranext.

¹ SP Environmental Systems, Inc., July 15, 1991. Additional Site Investigation and Remediation Report, Southern Pacific Transportation Company, Orchard Services.

² Industrial Compliance, January 8, 1992, Fourth Quarter 1991 Groundwater Sampling Results, 399 Linden Avenue, Carpinteria, California.

³ Industrial Compliance, April 28, 1992, First Quarter 1992 Groundwater Sampling Results and Soil Disposal Report, 399 Linden Avenue, Carpinteria, California.

⁴ Letter from Industrial Compliance regarding Groundwater Sampling Analytical Results, to Environmental Health Services Department, Santa Barbara County, dated March 8, 1993.

⁵ Terranext, February 20, 1996, Report for Groundwater Monitoring at the Former Orchard Services site, 399 Linden Avenue, Carpinteria, California.

A preliminary site assessment report for railroad owned properties in this area, including the 399 Linden site, was conducted in 1999.⁶ That report indicated that an approximately 6-cubic yard wood chip waste pile was observed at the site and that "automobile parking encroachment" was occurring. At that time, much of the site was unfenced and was vacant.

Comments on Former LUFT Site

The site assessment conducted between 1991 and 1996 appear to have been adequate with respect to groundwater contamination. Groundwater samples collected on three occasions from three wells at the LUFT site in 1991, 1992, and 1996 did not exhibit analyzed contaminants in excess of county cleanup levels, based on reports prepared by the railroad's consultants. The county issued a letter of no further action for the LUFT site on March 4, 1996. That document confirming site closure is included in the SBCFPD file in Appendix C.

Residual soil contamination could exist on the subject property, based on the data from the northern limit of the soil excavation. A scaled site map (dated 7/12/91) prepared by SPEvS shows the northern edge of the soil excavation extending to within 20 feet of the railroad tracks. However, the absence of groundwater contamination in three sampling events and the closure of the LUFT site granted by the county in 1996 indicate that severe residual soil contamination near the former USTs is unlikely to be present.

In general, our recent discussions with FPD staff confirms that agency is very reluctant to re-open previously investigated and closed sites in the absence of new data that indicate soil or groundwater contamination is present in higher concentrations and more widespread than previously determined.

⁶ Geomatrix Consultants, Inc., July 20, 1999, Preliminary Site Assessment Report, Carpinteria Sale Properties.

Land Use Since 1996

The land use appears to be essentially unchanged since 1996, based on historical aerial photographs and our general knowledge of the site. The site is and has been vacant since that time, based on available information. The 1999 Geomatrix report notes "automobile parking encroachment" and a wood chip pile at the unfenced site at that time.

Current Site Reconnaissance

In February and March 2013, Campbell·Geo conducted reconnaissance level site visits. Our visits included walking the site. We documented site conditions in the photographs attached as Appendix A.

We noted no use or storage of petroleum or hazardous chemicals. Small garden plots were observed adjacent to neighboring residential properties, as shown in the photographs. One vehicle was parked adjacent to a residence west of Elm Avenue. A marker for an underground communications utility (MCI Marker No. 3805) was noted near the western side of the site. Presumably, that utility runs the length of the site, parallel to the UPRR tracks. A black chain link fence is located roughly 20 feet south of the center of the tracks and runs parallel to the tracks on the north side of the subject site.

CONCLUSIONS

After underground fuel tank removal, site assessment, and remediation by soil removal, the site was granted regulatory closure for the underground tank issue in 1996 (LUFT Site #50119). There is some residual soil contamination indicated between the former Orchard Services USTs and the UPRR tracks, but possibly at a distance of less than 20 feet south of the tracks.

Given the site history with previous adjacent railroad sidings, older historic railroad structures, and the assumed chemical storage associated with the Orchard Services business, undetected chemical contamination could exist at the site, outside of the area excavated in the early 1992.

Based on our site visit in February 2013 and our review of the documents described above, there is no data of which we are aware for the 399 Linden Avenue property since the sites was closed by FPD that indicates soil or groundwater contamination has changed since the agency provided regulatory closure in 1996.

Based on investigations conducted in 2012 at other sites in the county by Campbell·Geo (including the Fifth Street and Holly Avenue site north of the UPRR tracks), where contaminants were identified in excess of FPD investigation levels from soil borings drilled on behalf of new property owners, FPD has confirmed in writing that the new data at those sites did not justify opening or re-opening a regulatory file. FPD provided concurrence with our recommendation that, in the event of future site development where soil was removed from the ground, a qualified environmental professional shall be on site to "verify that no additional contaminants of concern are identified that are above the levels already found at the site." Where contaminated soil/groundwater was found at those sites, a simple handling plan would be developed in the future if new construction is planned that would include soil removal or groundwater pumping. Soils generated that are stained or odoriferous could be profiled by sampling and lab analysis for appropriate offsite disposal. Water generated by deep excavation could be treated and discharged, typically with a temporary Sanitary District sewer discharge permit.

If buildings are constructed over areas of contaminated soil or groundwater, there is a potential for migration of volatile chemicals into indoor air breathing spaces. However, mitigation with a vapor barrier can be included in the building design. A vapor barrier is not technically complicated and does not necessarily increase construction costs significantly. One simple form of a barrier consists of a subslab heavy polyethylene sheet, sealed at utility entry points and other features, some of which are already part of the California Building Code for moisture-proofing and HVAC design in standard construction.

Mr. Matthew Roberts, City of Carpinteria
Review of Previous Environmental Site Assessment, Remediation, and Regulatory Closure
399 Linden Avenue, Carpinteria, California
March 22, 2013
Page 7

LIMITATIONS

This report, as specifically requested, is not a Phase I Environmental Site Assessment as defined by ASTM guidelines. We can provide no warranty that all sources of hazardous materials or waste have been identified on or near the property. Asbestos, lead paint, and radon issues have not been evaluated. The property value has not been compared to the purchase price. Land title records have not been evaluated for the existence of environmental liens or other issues affecting the property. Geologic hazards have not been evaluated.

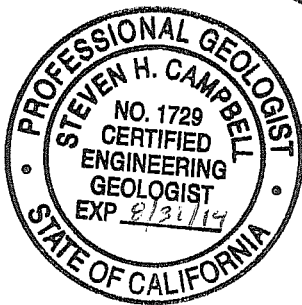
This report was prepared for the sole and exclusive use of the City of Carpinteria.

Please contact me if you have any further questions.

Sincerely,
Campbell-Geo, Inc.



Steven H. Campbell
Professional Geologist
State of California, #5576
Certified Engineering Geologist
State of California, #1729
Certified Hydrogeologist
State of California, #82



Attachments: Appendices A, B, C

Clients\City of Caprinteria\399 Linden Avenue\Letters\L1.doc

APPENDIX A

Photographs - Site Reconnaissance
2013

SITE RECONNAISSANCE
399 Linden Avenue, Carpinteria, California
February 2013

,
,

View of site to northwest

View to south of eastern portion of site

SITE RECONNAISSANCE
399 Linden Avenue, Carpinteria, California
February 2013

View to west of central portion of site

View to northwest of garden plots; central portion of site

SITE RECONNAISSANCE
399 Linden Avenue, Carpinteria, California
February 2013

Approximate location of previous UST removal and soil remediation;
view to southwest

Approximate location of previous UST removal and soil remediation;
view to northeast

SITE RECONNAISSANCE
399 Linden Avenue, Carpinteria, California
March 2013

View to southeast of western portion of site at Holly Avenue

View to east of west side of site; MCI utility marker is in left center of photograph

SITE RECONNAISSANCE
399 Linden Avenue, Carpinteria, California
March 2013

View of site west of Elm Avenue

View to west of site from Amtrak train station platform

APPENDIX B

Historical Sanborn Maps and Aerial Photographs



Holly Ave.

APN 004-105-015

Carpinteria, CA 93013

Inquiry Number: 3316338.3

May 04, 2012

Certified Sanborn® Map Report

Certified Sanborn® Map Report

5/04/12

Site Name:

Holly Ave.
APN 004-105-015
Carpinteria, CA 93013

Client Name:

Campbell Geo Inc.
327A East Haley Street
Santa Barbara, CA 93101-1712

EDR Inquiry # 3316338.3

Contact: Adam Ginsburg

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Campbell Geo Inc. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Holly Ave.
Address: APN 004-105-015
City, State, Zip: Carpinteria, CA 93013
Cross Street:
P.O. # Holly Ave
Project: City of Carpinteria
Certification # 063F-42E6-A4BD

Sanborn® Library search results
Certification # 063F-42E6-A4BD

Maps Provided:

1929
1916

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

Library of Congress
University Publications of America
EDR Private Collection

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

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Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1929 Source Sheets

Volume 1, Sheet 2 Volume 1, Sheet 7 Volume 1, Sheet 2 Volume 1, Sheet 7

1916 Source Sheets

Volume 1, Sheet 1

1929 Certified Sanborn Map

063F-42E6-A4BD

Site Name: Holly Ave.
Address: APN 004-105-015
City, ST, ZIP: Carpinteria CA 93013
Client: Campbell Geo Inc.
EDR Inquiry: 3316338.3
Order Date: 5/4/2012 2:28:00 PM
Certification # 063F-42E6-A4BD
Copyright: 1929

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600

- Volume 1, Sheet 2
- Volume 1, Sheet 7
- Volume 1, Sheet 2
- Volume 1, Sheet 7

1916 Certified Sanborn Map

063F-42E6-A4BD

Site Name: Holly Ave.
Address: APN 004-105-015
City, ST, ZIP: Carpinteria CA 93013
Client: Campbell Geo Inc.
EDR Inquiry: 3316338.3
Order Date: 5/4/2012 2:28:00 PM
Certification # 063F-42E6-A4BD
Copyright: 1916

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600

Volume 1, Sheet 1



Holly Ave.

APN 004-105-015

Carpinteria, CA 93013

Inquiry Number: 3316338.5

May 08, 2012

The EDR Aerial Photo Decade Package

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Please contact EDR at 1-800-352-0050
with any questions or comments.

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Date EDR Searched Historical Sources:

Aerial Photography May 08, 2012

Target Property:

APN 004-105-015

Carpinteria, CA 93013

<i>Year</i>	<i>Scale</i>	<i>Details</i>	<i>Source</i>
1929	Aerial Photograph. Scale: 1"=500'	Flight Year: 1929	Fairchild
1938	Aerial Photograph. Scale: 1"=666'	Flight Year: 1938	Fairchild
1947	Aerial Photograph. Scale: 1"=666'	Flight Year: 1947	Tubis
1956	Aerial Photograph. Scale: 1"=266'	Flight Year: 1956	Mark Hurd
1967	Aerial Photograph. Scale: 1"=166'	Flight Year: 1967	Mark Hurd
1975	Aerial Photograph. Scale: 1"=333'	Flight Year: 1975	Mark Hurd
1989	Aerial Photograph. Scale: 1"=666'	Flight Year: 1989	USGS
1994	Aerial Photograph. Scale: 1"=500'	/Composite DOQQ - acquisition dates: 1994	EDR
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	EDR



INQUIRY #: 3316338.5

YEAR: 1929

| = 500'





INQUIRY #: 3316338.5

YEAR: 1938

| = 666'





INQUIRY #: 3316338.5

YEAR: 1947

| = 666'





INQUIRY #: 3316338.5

YEAR: 1956

| = 266'



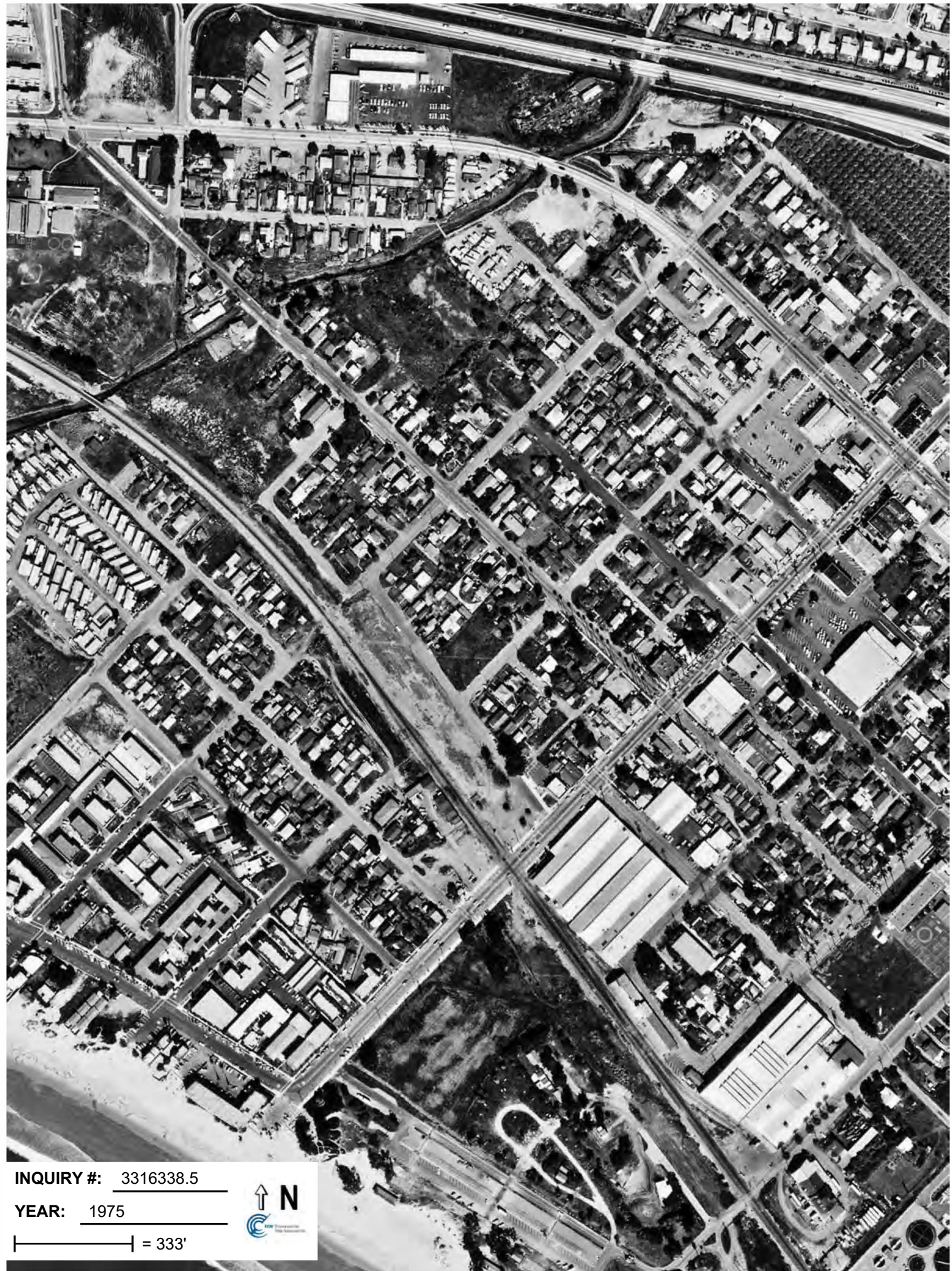


INQUIRY #: 3316338.5

YEAR: 1967

| = 166'





INQUIRY #: 3316338.5

YEAR: 1975

| = 333'





INQUIRY #: 3316338.5

YEAR: 1989

| = 666'





INQUIRY #: 3316338.5

YEAR: 1994

| = 500'





INQUIRY #: 3316338.5

YEAR: 2005

| = 500'



APPENDIX C

**SBCFPD LUFT File and
1999 Geomatrix Phase I Report
(both on the attached CD)**



SANTA BARBARA COUNTY FIRE DEPARTMENT
Certified Unified Program Agency, Fire Prevention Division
1430 Mission Drive, Solvang, CA 93463
FILE REVIEW REQUEST

5/8/12 10 AM *Chuck Rao*

DATE: 5/3/12 PHONE: 805 965 5003 FAX:

REQUESTOR'S NAME: *Adam Ginsburg*
AGENCY / AFFILIATION: *Campbell Geo Inc.*
ADDRESS: *327 E. Hedy St. #A*
CITY, STATE AND ZIP: *Santa Barbara, CA 93101*
EMAIL ADDRESS: *adam@campbellgeo.com*

REQUESTED SITE ADDRESSES

SITE ID # (If Known) SITE ADDRESS / NAME OF BUSINESS
APN 004-105-015, no known street address.
399 Linden Ave, Carpinteria, CA 93013, LUFT: ~~50119~~ 50119 (Just LUFT filed)

FILES REQUESTED:

☐ BUSINESS PLAN (Includes Cal-ARP) ☒ HAZARDOUS WASTE ☒ UNDERGROUND STORAGE TANKS
☒ LUFT ☒ SMU ☐ Other _____

Instructions for Review:

5/4/12 *Spoke w/ Steve, file is ready (BII)*
SOMEONE WILL CALL BACK TO MAKE AN

1. Information or documents must not be removed from the files. *ADPT.*
2. You may request photocopies from administrative staff (limit of 20 copies). Please note: There is a fee for photocopies.
3. Fax copy of completed File Review Request to (805) 686-8183.
4. There is no fee assessed for reviewing the program files.
5. Limited to 6 sites per review.
6. Please allow up to 2 weeks for your requested files to be ready for review, depending upon volume of requests.
7. If you have questions, please call (805) 686-8170.

I certify that I will comply with the aforementioned file review procedures and that no documents will be removed from the file(s) reviewed.

Adam Ginsburg
APPLICANT SIGNATURE
CUPA Representative Findings: ☐ No CUPA Records Found ☐ Records Available for Review
CUPA Representative Signature: *Chuck Rao*
DATE: 5/3/12

DISCLAIMER

FROM: FIRE PREVENTION DIVISION

SUBJECT: Closed Files That Were Scanned in 2006

This is A Disclaimer For Our Closed Files That Were Scanned in 2006.

These files were out of our control during the scanning process. Therefore, there is the possibility that:

- They are not in chronological order
- Documents may not be in correct section according to the Table of Contents
- Etc.

**LUFT/SMU PROGRAM
File Volume 1:*
TABLE OF CONTENTS**

SECTION 1

**Master Billing Record (MBR)
Applications
Fee Statements
State Form B
Notice of Reimbursements (NOR's)**

SECTION 2

**Final Closure Summary
Inspection Reports
Notice of Violations (NOV)
Complaint Investigation Reports (CIR) Unauthorized Release Forms (URF's)
File Review Requests**

SECTION 3

General Correspondence

SECTION 4

General Correspondence Continued

SECTION 5

**Tank Tests/Lab Tests/Test Reports
Chain of Custody
Diagrams
Drawings
Maps
Photo Essays
Draft Closure Summary
Notes**

SECTION 6

Confidential Information

* Bound reports or other information not in Volume 1 will be located in subsequent volumes.

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

Page 1 of 1

Owner's Well No. MW3

No. 459453

Date Work Began 4-17-96, Ended 4-17-96

Local Permit Agency S.D. Envir. Health Division

Permit No. 207 Permit Date 207 4/11/96

GEOLOGIC LOG

WELL OWNER

ORIENTATION ($\angle$) ☒ VERTICAL ☐ HORIZONTAL ☐ ANGLE ☐ (SPECIFY)

DEPTH FROM SURFACE (Ft. to Ft.)

DEPTH TO FIRST WATER (Ft.) BELOW SURFACE

DESCRIPTION

Describe material, grain size, color, etc.

0 5 Drill cuttings with native soil

5 20 Volcanic breccia and gravel from 10 to 15 ft. below surface. Spun to 5' below surface.

T.O. 20 feet BSG

Note: Open removed with drill bit all casing and pump pack material. Pumping a limited amount of water was performed from bottom of bore hole back to 5' below surface.

TOTAL DEPTH OF BORING 20 (Feet)

TOTAL DEPTH OF COMPLETED WELL _____ (Feet)

Name Southwest Pacific Transp. Co.

Mailing Address One Market Plaza

SAN FRANCISCO CA 94105

CITY STATE ZIP

WELL LOCATION

Address 399 Linden Ave

City Santa Barbara, CA

County SANTA BARBARA

APN Book _____ Page _____ Parcel 003-044-027

Township _____ Range _____ Section _____

Latitude _____ Longitude _____

DEG. MIN. SEC. NORTH

DEG. MIN. SEC. WEST

LOCATION SKETCH

SEE ATTACHED FIGURE 1

ACTIVITY ($\angle$)

☐ NEW WELL

☐ MODIFICATION/REPAIR

☐ Deepen

☐ Other (Specify)

☒ DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USE(S)

☐ MONITORING

WATER SUPPLY

☐ Domestic

☐ Public

☐ Irrigation

☐ Industrial

☐ "TEST WELL"

☐ CATHODIC PROTECTION

☐ OTHER (Specify)

Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc. PLEASE BE ACCURATE & COMPLETE.

DRILLING METHOD _____ FLUID _____

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL _____ (Ft.) & DATE MEASURED _____

ESTIMATED YIELD* _____ (GPM) & TEST TYPE _____

TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)

* May not be representative of a well's long-term yield.

DEPTH FROM SURFACE (Ft. to Ft.)

BORE-HOLE DIA. (Inches)

TYPE ($\angle$)

BLANK SCREEN CONDUIT FILL PIPE

CASING(S)

MATERIAL/ GRADE

INTERNAL DIAMETER (Inches)

GAUGE OR WALL THICKNESS

SLOT SIZE IF ANY (Inches)

DEPTH FROM SURFACE (Ft. to Ft.)

ANNULAR MATERIAL

TYPE

CE- BEN- MENT TONITE FILL FILTER PACK (TYPE/SIZE)

ATTACHMENTS ($\angle$)

☐ Geologic Log

☐ Well Construction Diagram

☐ Geophysical Log(s)

☐ Soil/Water Chemical Analyses

☐ Other _____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Open Environment Drilling

(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

15661 Proctor Dr. N. Hunt. Bldg. 92649

ADDRESS CITY STATE ZIP

Signed [Signature] DATE SIGNED 5-6-96 C-57 LICENSE NUMBER 561117

WELL DRILLER/AUTHORIZED REPRESENTATIVE

Owner's Well No. MW-1Date Work Began 4-17-96 Ended 4-17-96 No. 459451Local Permit Agency S.B. Env. Health DivisionPermit No. 205Permit Date 205 4/11/96

STATE OF CALIFORNIA

WELL COMPLETION REPORT

Refer to Instruction Pamphlet

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE

LONGITUDE

APN/TRS/OTHER

GEOLOGIC LOG

WELL OWNER

ORIENTATION ($\angle$) ☒ VERTICAL ☐ HORIZONTAL ☐ ANGLE ☐ (SPECIFY)Name Southern Pacific Transp. Co.Mailing Address 1 MARKET PLAZACity S. E. SAN FRANCISCO State CA ZIP 94105

WELL LOCATION

Address 399 Linden AveCity CARPENTRIA, CACounty SANTA BARBARAAPN Book 003-044-027Township Range Section SectionLatitude DEG. MIN. SEC. NORTH Longitude DEG. MIN. SEC. WEST

LOCATION SKETCH

ACTIVITY ($\angle$)☐ NEW WELL

MODIFICATION/REPAIR

☐ Deepen☐ Other (Specify)☒ DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USE(S)

☐ MONITORING

WATER SUPPLY

☐ Domestic☐ Public☐ Irrigation☐ Industrial☐ "TEST WELL"☐ CATHODIC PROTECTION☐ OTHER (Specify)

Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc. PLEASE BE ACCURATE & COMPLETE.

DRILLING METHOD

FLUID

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC

WATER LEVEL (Ft.) & DATE MEASURED

ESTIMATED YIELD* (GPM) & TEST TYPE

TEST LENGTH (Hrs.) TOTAL DRAWDOWN (Ft.)

* May not be representative of a well's long-term yield.

DEPTH FROM SURFACE

DEPTH TO FIRST WATER (Ft.) BELOW SURFACE

DESCRIPTION

Ft. to Ft.

Describe material, grain size, color, etc.

0 5 BACK FILLED WITH NATIVE FILL.

5 20 Volcanic brecciated gravel tumbled into borehole.

T-D 20 FEET BSG

NOTE: APEX removed via drill out all casing & original backfill material. Subsequently a bentonite cement mixture was positioned from the bottom of the borehole up to within 5 feet of surface grade. The remaining borehole was filled with native.

TOTAL DEPTH OF BORING 20 (Feet)

TOTAL DEPTH OF COMPLETED WELL (Feet)

DEPTH FROM SURFACE

BORE-HOLE DIA. (Inches)

TYPE ($\angle$)
BLANK
SCREEN
CON-
DUCTOR
FILL PIPE

CASING(S)

MATERIAL / GRADE

INTERNAL DIAMETER (Inches)

GAUGE OR WALL THICKNESS

SLOT SIZE IF ANY (Inches)

DEPTH FROM SURFACE

ANNULAR MATERIAL

TYPE

Ft. to Ft.

CE-
MENT
TONITE
($\angle$) ($\angle$) ($\angle$)

FILTER PACK (TYPE/SIZE)

ATTACHMENTS ($\angle$)

- ☐ Geologic Log
- ☐ Well Construction Diagram
- ☐ Geophysical Log(s)
- ☐ Soil/Water Chemical Analyses
- ☐ Other

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

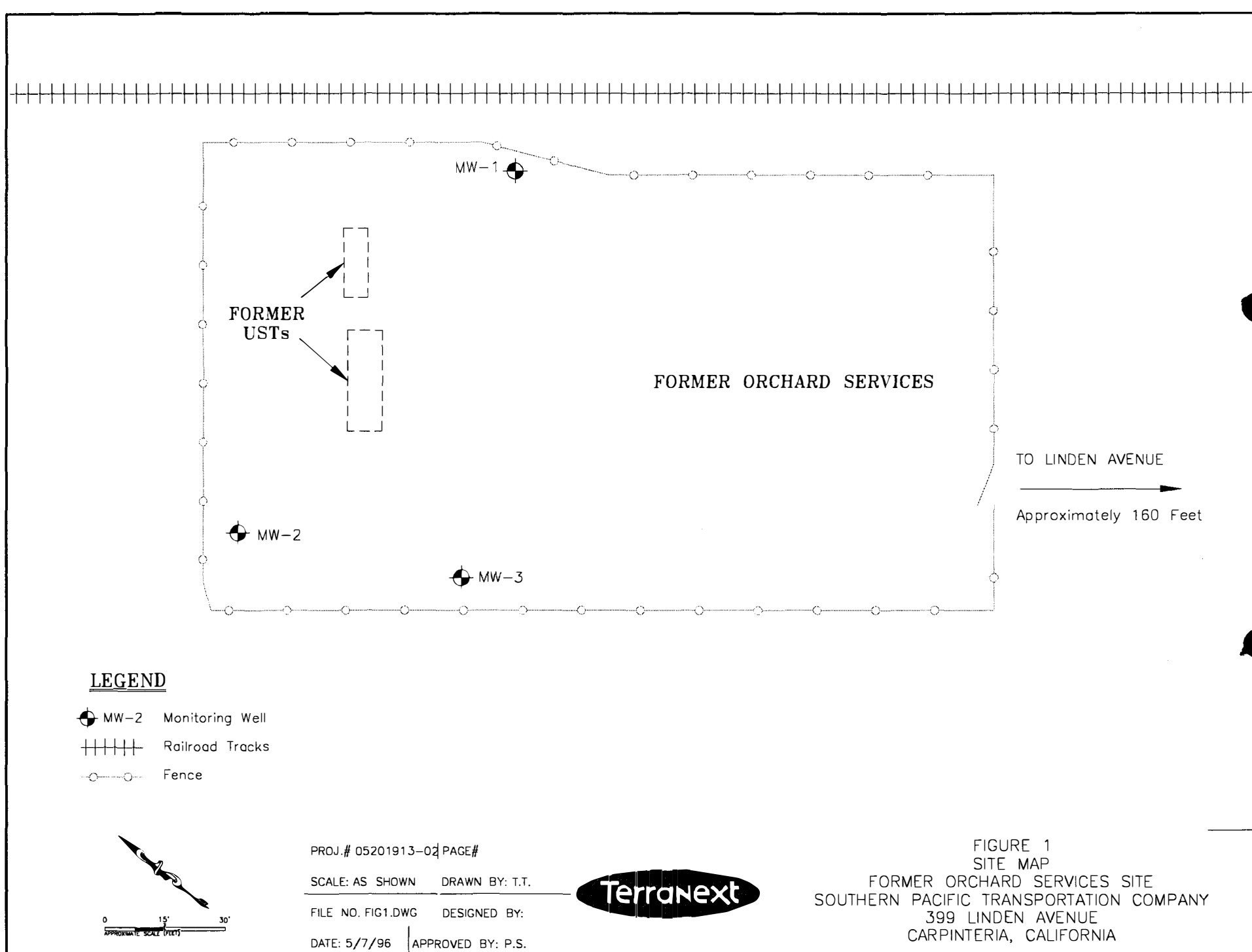
NAME APEX Environmental Drilling

(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS 156651 Producers LnCITY H.B.STATE CAZIP 92649Signed [Signature]

WELL DRILLER AUTHORIZED REPRESENTATIVE

DATE SIGNED 5-6-96C-57 LICENSE NUMBER 56117



*** LUFT/SMU PROGRAM MASTER BILLING AND COMPUTER ENTRY RECORD ***

☒ LUFT or ☐ SMU ACTION: ☐ Add ☐ Change ☒ Closure ☐ Deleted ☐ Inactive ☐ Regional Board ☐ Billing
 Comments: _____

FILE COPY

LUFT/SMU ROUTING (Initial, Date and enter sequence #)

☒ Specialist RE ☐ Supervisor _____ ☐ Data Entry _____ ☐ Other _____

APN#

PRIORITY CODE:

SITE ID: 50119

SITE NAME: Orchard Service / SP Railroad

ADDRESS > STREET #: 399

STREET NAME: Linden Ave

CITY: Carpinteria CA

STATE/ZIP: 93013

EMPLOYEE ID #: 6318

FUNDING:

SUBSTANCE:

PETROLEUM?

DATE REPORTED:

DATE CONFIRMED:

CASE TYPE:

CONTRACT STATUS:

DATE EMERGENCY RESPONSE:

RP SEARCH:

DATE BEGIN:

DATE END:

PRELIM ASSESSMENT:

DATE BEGIN:

DATE END:

REMEDIAL INVESTIGATION:

DATE BEGIN:

DATE END:

REMEDIAL ACTION:

DATE BEGIN:

DATE END:

POST REMEDIAL ACTION MONITORING:

DATE BEGIN:

DATE END:

ENFORCEMENT ACTION TAKEN?:

TYPE:

DATE ACTION TAKEN:

LUFT CAT:

RAP:

DATE FINAL RAP APPROVED:

CASE CLOSED:

DATE CASE CLOSED:

DATE EXCAVATION STARTED:

REMEDIAL ACTIONS TAKEN:

B. Fontes
5/13/96

DATE TIME EXTEND NOTIFY:

MULTIPLE RPs # _____

DATE OF LAST ENTRY: 5/14/96

Entered By: CR

1. RP NAME: _____

2. RP NAME: _____

RP COMPANY: _____

RP COMPANY: _____

ADDRESS > STREET #: _____

ADDRESS > STREET #: _____

STREET NAME: _____

STREET NAME: _____

CITY: _____

CITY: _____

STATE/ZIP: _____

STATE/ZIP: _____

3. RP NAME: _____

4. RP NAME: _____

RP COMPANY: _____

RP COMPANY: _____

ADDRESS > STREET #: _____

ADDRESS > STREET #: _____

STREET NAME: _____

STREET NAME: _____

CITY: _____

CITY: _____

STATE/ZIP: _____

STATE/ZIP: _____

FUNDING -> S-STATE F-FEDERAL
SUBSTANCE -> CODE FROM STATE SUBSTANCE LIST

CASE TYPE -> S-SOIL ONLY G-GROUNDWATER AFFECTED
D-DRINKING WATER WELLS CONTAMINATED U-UNDEFINED

CONTRACT STATUS -> CODE 1-8 BASED ON CONTRACT TASKS

RP SEARCH -> S-RP IDENTIFIED AND SOLVENT
I-RP IDENTIFIED BUT INSOLVENT
R-RP IDENTIFIED BUT RECALCITRANT

PRELIM ASSESS, REMEDIAL INVESTIGATION -> U-UNDERWAY C-COMPLETED

REMEDIAL ACTION -> U-UNDERWAY C-COMPLETED I-INTERIM

POST REMEDIAL ACTION MONITORING -> Y-REQUIRED BUT NOT UNDERWAY
N-NOT REQUIRED U-UNDERWAY
C-COMPLETED

ENFORCEMENT TYPE -> USE CODES 1-6 FROM STATE ENFORCEMENT LIST

RAP -> U-UNDERWAY C-COMPLETED

CASE CLOSED -> Y-CASE CLOSED
R-REFERRED TO REGIONAL BOARD
C-REGIONAL BOARD CONCURRENCE FOR CLOSURE
L-LOCAL OPTION PROGRAM

REMEDIAL ACTIONS TAKEN -> ENTER UP TO SEVEN 2 LETTER CODES FROM LIST

ENFORCEMENT ACTION TYPES

1. ACTION TAKEN BY RP IN RESPONSE TO LOCALLY ISSUED REQUEST (NOTICE OF REIMBURSEMENT) TO BEGIN INVESTIGATING AND CLEANUP.
2. LOCALLY ISSUED WARNING LETTER OR NOTICE OF VIOLATION, FOLLOW-UP TO NOTICE OF REIMBURSEMENT.
3. FORMAL ACTION BY LOCAL AGENCY.
4. REGIONAL BOARD ISSUED WARNING LETTER.
5. FORMAL ACTION BY REGIONAL BOARD OR EXECUTIVE OFFICER.
6. COURT INJUNCTION.

REMEDIAL ACTION CODES

CODE	DESCRIPTION
CD	CAP SITE - INSTALL HORIZONTAL IMPERMEABLE LAYER TO REDUCE RAINFALL INFILTRATION.
CB	CONTAINMENT BARRIER - INSTALL VERTICAL DIKE TO BLOCK HORIZONTAL MOVEMENT OF CONTAMINANT.
CA	VATE AND DISPOSE - REMOVE CONTAMINATED SOIL AND DISPOSE IN APPROVED SITE.
ET	EXCAVATE AND TREAT - REMOVE CONTAMINATED SOIL AND TREAT (INCLUDES SPREADING OR LAND FARMING).
FP	REMOVE FREE PRODUCT - REMOVE FLOATING PRODUCT FROM WATER TABLE.
GT	PUMP AND TREAT GROUNDWATER - GENERALLY EMPLOYED TO REMOVE DISSOLVED CONTAMINANTS.
IT	ENHANCED BIODEGRADATION - USE OF ANY AVAILABLE TECHNOLOGY TO PROMOTE BACTERIAL DECOMPOSITION OF CONTAMINANTS.
RS	REPLACE SUPPLY - PROVIDE ALTERNATIVE WATER SUPPLY TO AFFECTED PARTIES.
HU	TREATMENT AT HOOKUP - INSTALL WATER TREATMENT DEVICES AT EACH DWELLING OR OTHER PLACE OF USE.
NA	NO ACTION REQUIRED - INCIDENT IS MINOR, REQUIRING NO REMEDIAL ACTION.
VS	VENT SOIL - BORE HOLES IN SOIL TO ALLOW VOLATILIZATION OF CONTAMINANTS.

SUBSTANCE CODES

CODE	DESCRIPTION	CODE	DESCRIPTION
	NOT REPORTED		
01*	AVIATION GASOLINE		
02*	FUEL OILS #1,2,3,4,5,6		
03*	PETROLEUM EXTENDER OILS		
08	MOTOR OIL	75092	METHYLENE CHLORIDE
09	BOILER OIL	75569	PROPYLENE OXIDE
10	#6 FUEL OIL	78933	METHYL ETHYL KETONE
12	HEATER FUEL	79016	T C E
13	SOLVENTS	87865	PENTACHLOROPHENOL
14	HYDRAULIC OIL	95636	PSEUDOCUMENE
30*	GAS TURBINE FUEL OILS	106423	XYLENE
32	WASTE WATER	107062	ETHYLENE DICHLORIDE
41*	MINERAL SPIRITS	108883	TOLUENE
49	PAINT THINNER	109999	TETRAHYDROFURAN
51	OIL & GREASE WASTE	127184	PERCHLOROETHYLENE
52	DRY CLEANING SOLVENTS	610399	DINITROTOLUENES
55	ALKYLETHOXYETHANOL	1313991	NICKEL OXIDE
61	WATER AND OIL MIX	1336363	P C B'S
71	LUBRICATING OIL	7439921	LEAD
76	HYDROCARBONS	7440020	NICKEL
77	COOLANT	7440382	ARSENIC
78	ALIPHATIC HYDROCARBONS	7440473	CHROMIUM
80	TRANSMISSION FLUID	7440508	COPPER
84	LACQUER THINNER	8002059	CRUDE OIL
95	INDUSTRIAL LAUNDRY WASTE		(HAZARDOUS)
101	NAPHTA DISTILLATE	8006619*	AUTOMOTIVE GASOLINE
116*	PET. SPIRITS, NAPTHAS	8007452	COAL TAR
122	CUTTING OIL	8008206*	KEROSENE
127	#5 FUEL OIL	8052413*	STODDARD SOLVENT
128	BUNKER FUEL OIL	8052424	ASPHALT
142	CHLORINATED HYDROCARBONS	25037665	POLYESTER RESIN
171	FREON		
172	ALCOHOL		
376	CEROMIC ACID		
12031	UNLEADED GASOLINE		
12032	REGULAR GASOLINE		
12033	PREMIUM GASOLINE		
12034*	DIESEL FUEL OIL & ADDIVITES		
12035*	USED OIL (WASTE OIL)		
12036	MISC. MOTOR VEHICLE FUEL		
12037*	JET FUEL & ADDITIVES		
57125	CYANIDES, SALTS		
64175	ETHYL ALCOHOL		
64197	ACETIC ACID		
67561	METHYL ALCOHOL		
67630	ISOPROPYL ALCOHOL		
67641	ACETONE, ETC.		
67663	CHLOROFORM		
71432	BENZENE		
71556	TRICHLOROETHANE		

LUFT CONTRACT TASKS

- TASK 1: CONFIRM RELEASE AND DETERMINE FUNDING SOURCE.
TASK 2: IDENTIFY AND NOTIFY OWNER.
TASK 3: PRELIMINARY SITE ASSESSMENT.
TASK 4: DETERMINE SITE STATUS AND NOTIFY STATE BOARD.
TASK 5: CONDUCT REMEDIAL INVESTIGATION, DEVELOP FEASIBILITY STUDY AND SPECIFICATIONS.
TASK 6: REMEDIAL ACTION.
TASK 7: POST REMEDIAL ACTION MONITORING.
TASK 8: CERTIFICATION.

*TASKS 1-8 DESCRIPTIONS ARE INDICATED ON PAGES 2 OF 15 THRU 7 OF 15 OF THE LUFT CONTRACT.

Permit No. **205**

Page 1 of 2 pages

WELL PERMIT APPLICATION

TO: Environmental Health Division
Santa Barbara County Health Care ServicesDate 4.10.96Name of Well Owner Southern Pacific Transportation Company
Mailing Address One Market Plaza, San Francisco, CA 94105 415-541-2557
Street, P.O. City State Zip Code TelephoneWell Site Location: Vicinity Map Attached ☒ (Check)Assessor's Parcel No. 003-044-027 Street Address 399 Linden Ave, CarpinteriaTownship _____ Range _____ Section _____ Rancho Pueblo LandName of Well Driller APEX ENVIRONMENTAL DRILLINGCompany Name APEX ENVIRONMENTAL DRILLINGBusiness Address 15641 PRODUCER LN., Suite N, Huntington Beach CA 92649Contractor's License No. CS-56117 Start 4.17.96 Finish 4.17.96OTHER WATER SOURCE: Public ☐ Private ☐ None ☒

Permit Type (Check)	Well Use (Check)	Drilling Method (Check)
Construction ☐	Domestic ☐	Rotary ☐
Repair/Modification ☐	Agriculture ☐	Cable ☐
Destruction ☒	Cathodic ☐	Other ☒ Hollow Stem Auger
Inactivation ☐	Test ☒	

Proposed Depth 19 ft.

Casing Information

Well Bore Diam 8 in.Type: Steel ☐ PVC ☒ Other ☐

Sealing Material (Check)

Wall/Gage 40 in.Neat Cement ☒ Clay ☐Diameter 2 in.Cement Grout ☐ Concrete ☐Annular Seal Depth 5 ft.

Additional Work Description:

For Department Use Only

Application Disposition:

Approved ☐Denied ☐

Comments

I hereby agree to comply with all regulations of the County of Santa Barbara pertaining to well construction, repair, modification, destruction and inactivation. The property owner, well driller, or agent will furnish County Health Care Services a complete well log upon completion of well construction.

Signed

Richard D. Allen

Applicant

4.11.96No Fee LUFT Site # 50119

\$ _____ Fee paid on _____

Name

Barbara A. Foster

Receipt No. _____

Date

April 11, 1996

PAID BY:

S.B. ☐ Sol. ☐S.M. ☐ Lom ☐

WHEN SIGNED BY HEALTH CARE SERVICES, THIS APPLICATION IS A PERMIT. HEALTH OFFICER SHALL BE NOTIFIED PRIOR TO ALL SEALING OPERATIONS. NOTE: PERMIT EXPIRES ONE YEAR FROM DATE ISSUED.

WELL PERMIT APPLICATION

TO: Environmental Health Division
Santa Barbara County Health Care Services

Date 4.10.96

Name of Well Owner Southern Pacific Transportation Company
Mailing Address One Market Plaza, San Francisco, CA 94105 415-541-2557
Street, P.O. City State Zip Code Telephone

Well Site Location: Vicinity Map Attached ☒ (Check)

Assessor's Parcel No. 003-044-027 Street Address 399 Linden Ave, Carpinteria

Township _____ Range _____ Section _____ Rancho Pueblo Land

Name of Well Driller APEX ENVIRONMENTAL DRILLING

Company Name APEX ENVIRONMENTAL DRILLING

Business Address 15661 PRODUCER LN., Suite N, Huntington Beach, CA 92649

Contractor's License No. CS7-56117 Date of Work 4.17.96 Finish 4.17.96

OTHER WATER SOURCE: Public ☐ Private ☐ None ☐

Permit Type (Check)	Well Use (Check)	Drilling Method (Check)
Construction ☐	Domestic ☐	Rotary ☐
Repair/Modification ☐	Agriculture ☐	Cable ☐
Destruction ☒	Cathodic ☐	Other ☒ <u>Hollow Stem Auger</u>
Inactivation ☐	Test ☒	

Proposed Depth 19 ft.

Casing Information

Well Bore Diam 8 in.

Type: Steel ☐ PVC ☒ Other ☐

Sealing Material (Check)

Wall/Cage 40 in.

Neat Cement ☒ Clay ☐

Diameter 2 in.

Cement Grout ☐ Concrete ☐

Annular Seal Depth 5 ft.

Additional Work Description:

For Department Use Only

I hereby agree to comply with all regulations of the County of Santa Barbara pertaining to well construction, repair, modification, destruction and inactivation. The property owner, well driller, or agent will furnish County Health Care Services a complete well log upon completion of well construction.

Application Disposition:

Approved ☐

Denied ☒

Comments

Signed

Richard D. Allen

Applicant

4.11.96

No fee LUFT Site # 50119

\$ _____ Fee paid on _____

Name

Barbara A. Fonteo

S.B. ☐ Sol. ☐

Receipt No. _____

Date

April 11, 1996

S.M. ☐ Lom ☐

PAID BY:

WHEN SIGNED BY HEALTH CARE SERVICES, THIS APPLICATION IS A PERMIT. HEALTH OFFICER SHALL BE NOTIFIED PRIOR TO ALL SEALING OPERATIONS. NOTE: PERMIT EXPIRES ONE YEAR FROM DATE ISSUED.

WELL PERMIT APPLICATION

TO: Environmental Health Division
Santa Barbara County Health Care Services

Date 4/10/96

Name of Well Owner Southern Pacific Transportation Company
Mailing Address One Market Plaza, San Francisco, CA 94105 415-541-2557
Street, P.O. City State Zip Code Telephone

Well Site Location: Vicinity Map Attached ☒ (Check)

Assessor's Parcel No. 003-044-027 Street Address 399 Linden Ave, Carpinteria
Township Range Section Rancho Pueblo Land

Name of Well Driller APEX ENVIRONMENTAL DRILLING
Company Name APEX ENVIRONMENTAL DRILLING
Business Address 15661 PRODUCER LN., Suite N, HUNTINGTON BEACH CA 92649 Date of Work
Contractor's License No. CS7-56117 Start 4/17/96 Finish 4/17/96

OTHER WATER SOURCE: Public ☐ Private ☐ None ☐

Permit Type (Check)	Well Use (Check)	Drilling Method (Check)
Construction ☐	Domestic ☐	Rotary ☐
Repair/Modification ☐	Agriculture ☐	Cable ☐
Destruction ☒	Cathodic ☐	Other ☒ <u>Hollow Stem Auger</u>
Inactivation ☐	Test ☒	

Proposed Depth 19 ft. Casing Information
Well Bore Diam 8 in.
Type: Steel ☐ PVC ☒ Other ☐
Sealing Material (Check) Wall/Cage 40 in.
Neat Cement ☒ Clay ☐ Diameter 2 in.
Cement Grout ☐ Concrete ☐ Annular Seal Depth 5 ft.

Additional Work Description:

For Department Use Only

Application Disposition:

Approved ☐

Denied ☐

Comments

I hereby agree to comply with all regulations of the County of Santa Barbara pertaining to well construction, repair, modification, destruction and inactivation. The property owner, well driller, or agent will furnish County Health Care Services a complete well log upon completion of well construction.

Signed Richard T. Allen 4/11/96
Applicant

No Fee LUFT Site # 50119
\$ Fee paid on 1/1
Receipt No. Barbara A. Forteo S.B. ☐ Sol. ☐
PAID BY: April 11, 1996 S.M. ☐ Lom ☐
Date

WHEN SIGNED BY HEALTH CARE SERVICES, THIS APPLICATION IS A PERMIT. HEALTH OFFICER SHALL BE NOTIFIED PRIOR TO ALL SEALING OPERATIONS. NOTE: PERMIT EXPIRES ONE YEAR FROM DATE ISSUED.



11235 Knott Avenue, Suite B Cypress, CA 90630

T. W. W. W.

FAX TRANSMITTAL COVER

From ~~COMPANY NAME:~~ Barbara A FONTES
Hydrogeologist

CONTACT NAME: _____

FAX NUMBER: (805) 681-5553

To → ~~SENDER'S NAME:~~ Richard ALLEN

DESCRIPTION: Permit For abandonment OF MONITORING
WELLS AND SITE LOCATION MAP FOR 399 LINDEN
CARPENTERIA, CA

PROJECT NO. 052 - 01913 - 02 - 34000NUMBER OF PAGES (INCLUDING COVER): 3DATE SENT: 4-11-96 TIME SENT: 9:00

HARD COPY TO FOLLOW IN THE MAIL: () YES () NO

IF THERE ARE ANY PROBLEMS WITH THIS TRANSMISSION, PLEASE CALL:
(714) 890-9133 IMMEDIATELY.

Telephone: 714 890-9133

Facsimile: 714 890-1973

www.terranext.com

LUFT PROGRAM
MASTER COMPUTER ENTRY RECORD
UNDERGROUND STORAGE TANK CLEANUP SITE

SITE ID: 5011A SITE NAME: Orchard Service/sp Railroad RANK:
ADDRESS>STREET NUMBER: 399 STREET: Linden Ave
CITY: Carpinteria, CA STATE/ZIP: 93012 EMPLOYEE ASSIGNED: 6311
FUNDING: F FEDERAL EXEMPT? N SUBSTANCE: 8006619 PETROLEUM? Y
7439921
DATE REPORTED: 2-16-90 DATE CONFIRMED: 3-26-90 CATEGORY: R
CASE TYPE: G CONTRACT STATUS: S DATE EMERGENCY RESPONSE:
RP SEARCH :S DATE BEGIN: 2-20-90 DATE END: 2-20-90
PRELIM ASSESSMENT :VC DATE BEGIN: 7/14/90 DATE END: 10/1/90
REMEDIAL INVESTIG. :VC DATE BEGIN: 7/24/90 DATE END:
REMEDIAL ACTION :U DATE BEGIN: 12-20-90 DATE END:
POST REMED MONITOR : DATE BEGIN: DATE END:
ENFORCEMENT ACTION TAKEN ? TYPE: DATE ACTION TAKEN:

UNDERGROUND STORAGE TANK CLEANUP SITE - SCREEN #2

LUFT CAT: 2 RAP: U DATE FINAL RAP APPROVED: 10/13/90
CASE CLOSED: DATE CASE CLOSED:
DATE EXCAVATION STARTED: 2-15-90
REMEDIAL ACTIONS TAKEN: DATE TIME EXTEND NOTIF:

RP CONTRACT NAME: Mr Joh Moe RP COST:
RP COMPANY NAME: Southern Pacific Railroad
ADDRESS>STREET NUMBER: 1 STREET: Market Plaza, Rm 1007
CITY: San Francisco, CA STATE/ZIPCODE: 94105
COMMENT:

AUTHORIZED BY: DATE:
COMPUTER ENTRY BY: ENTERED JAN 2 1991
LP29 DATE:

FUNDING -> S=STATE F=FEDERAL

SUBSTANCE -> CODE FROM STATE SUBSTANCE LIST

CATEGORY -> R=RESPONSIBILITY PARTY CASE S=STATE OR LOCAL LEAD

CASE TYPE -> S=SOIL ONLY G=GROUND WATER AFFECTED
D=DRINKING WATER WELLS CONTAMINATED U=UNDEFINED

CONTRACT STATUS -> CODE 1-9 BASED ON CONTRACT TASKS.

RP SEARCH -> S=RP IDENTIFIED AND SOLVENT I=RP IDENTIFIED BUT
INSOLVENT R=RP IDENTIFIED BUT RECALCITRANT
N=NO RP IDENTIFIED.

PRELIM ASSESS, REMEDIAL INVESTIGATION -> U=UNDERWAY C=COMPLETED
I=INTERIM

POST REMEDIAL ACTION MONITORING -> Y=REQUIRED, BUT NOT UNDERWAY
N=NOT REQUIRED U=UNDERWAY
C=COMPLETED

ENFORCEMENT TYPE -> USE CODES 1-6 FROM STATE ENFORCEMENT LIST.

RAP -> U=UNDERWAY C=COMPLETED

CASE CLOSED -> Y=CASE CLOSED AND REFERRED TO R=REGIONAL BOARD

REMEDIAL ACTIONS TAKEN -> ENTER UP TO SEVEN 2 LETTER CODES FROM
LIST.

SUBSTANCE CODES

CODE	DESCRIPTION	CODE	DESCRIPTION
08	NOT REPORTED	75052	METHYLENE CHLORIDE
09	MOTOR OIL	75569	PROPYLENE GLYDE
10	BOILER OIL	75933	METHYL ETHYL KETONES
12	16 FUEL OIL	75016	T C E
13	HEATER FUEL	85005	PENTACHLOROPHENOL
14	SOLVENTS	95626	PSEUDOCUMENE
14	HYDRAULIC OIL	106423	XYLENE
30	14 FUEL OIL	107062	ETHYLENE DICHLORIDE
32	WASTE WATER	106883	TOLUENE
41	MINERAL SPIRITS	105559	TETRAHYDROFURAN
49	PAINT THINNER	127164	PERCHLOROETHYLENE
51	OIL & GREASE WASTE	610399	DINITROTOLUENES
52	DRY CLEANING SOLVENTS	1312591	NICKEL OXIDE
55	ALKYLETHOXYETHANOL	1336363	P C B 'S
61	WATER & OIL MIX	7425921	LEAD
71	LUBRICATING OIL	7440020	NICKEL
76	HYDROCARBONS	7440362	ARSENIC
77	COOLANT	7440473	CHROMIUM
78	ALIPHATIC HYDROCARBONS	7440508	COPPER
80	TRANSMISSION FLUID	8002059	CRUDE OIL (HAZARDOUS)
84	LACQUER THINNER	8006619	GASOLINE
95	INDUSTRIAL LAUNDRY WSTE	8007452	COAL TAR
101	KAPPA DISTILLATE	8008206	KEROSENE
116	V.,X.& P.KAPPA	8052413	STODARD SOLVENT
122	CUTTING OIL	8052424	ASPHALT
127	#5 FUEL OIL	25037665	POLYESTER RESIN
128	BUNKER FUEL OIL		
142	CHLORINATED HYDROCARBONS		
171	FREON		
172	ALCOHOL		
376	CHROMIC ACID		
12031	UNLEADED GASOLINE		
12032	REGULAR GASOLINE		
12033	PREMIUM GASOLINE		
12034	DIESEL		
12035	WASTE OIL		
12036	MISCELLANEOUS MOTOR VEHICLE FUEL		
12037	JET FUEL		
57125	CYANIDES, SALTS		
64175	ETHYL ALCOHOL		
64157	ACETOC ACID		
67561	METHYL ALCOHOL		
67630	ISOPROPYL ALCOHOL		
67641	ACETONE, ETC.		
67663	CHLOROFORM		
71432	BENZENE		
71556	TRICHLOROETHANE		

LP22

ENFORCEMENT ACTION TYPES

1. ACTION TAKEN BY RESPONSIBLE PARTY IN RESPONSE TO LOCALLY ISSUED REQUEST TO BEGIN INVESTIGATION AND CLEANUP.
2. LOCALLY ISSUED WARNING LETTER OR NOTICE OF VIOLATION.
3. RESERVED.
4. STATE ISSUED CONSENT ORDER(ENFORCEABLE AGREEMENT).
5. STATE ISSUED REMEDIAL ACTION ORDER.
6. COURT INJUNCTION.

REMEDIAL ACTION CODES

CODE	DESCRIPTION
C D	CAP SITE - INSTALL HORIZONTAL IMPERMEABLE LAYER TO REDUCE RAINFALL INFILTRATION.
C B	CONTAINMENT BARRIER - INSTALL VERTICAL DIKE TO BLOCK HORIZONTAL MOVEMENT OF CONTAINMENT.
E D	EXCAVATE AND DISPOSE - REMOVE CONTAMINATED SOIL AND DISPOSE IN APPROVED SITE.
E T	EXCAVATE AND TREAT - REMOVE CONTAMINATED SOIL AN TREAT (INCLUDES SPREADING OR LAND FARMING).
F P	REMOVE FREE PRODUCT - REMOVE FLOATING PRODUCT FROM WATER TABLE.
G T	PUMP AND TREAT GROUND WATER - GENERALLY EMPLOYED TO REMOVE DISSOLVED CONTAMINANTS.
I T	ENHANCED BIODEGRADATION - USE OF ANY AVAILABLE TECHNOLOGY TO PROMOTE BACTERIAL DECOMPOSITION OF CONTAMINANTS.
R S	REPLACE SUPPLY - PROVIDE ALTERNATIVE WATER SUPPLY TO AFFECTED PARTIES.
H U	TREATMENT AT HOOKUP - INSTALL WATER TREATMENT DEVICES AT EACH DWELLING OR OTHER PLACE OF USE.
N A	NO ACTION REQUIRED - INCIDENT IS MINOR,REQUIRING NO REMEDIAL ACTION.
V S	VENT SOIL - BORE HOLES IN SOIL TO ALLOW VOLATILIZATION OF CONTAMINANTS.

CONTRACT STATUS LUFT CONTRACT TASKS

- TASK 1 : CONFIRM RELEASE AND DETERMINE FUNDING SOURCE.
- TASK 2 : IDENTIFY AND NOTIFY OWNER.
- TASK 3 : PRELIMINARY SITE ASSESSMENT.
- TASK 4 : DETERMINE SITE STATUS AND NOTIFY STATE BOARD.
- TASK 5 : CONDUCT REMEDIAL INVESTIGATION,DEVELOP FEASIBILITY STUDY AND SPECIFICATIONS.
- TASK 6 : TASK 6 HAS BEEN DELETED.
- TASK 7 : REMEDIAL ACTION.
- TASK 8 : POST REMEDIAL ACTION MONITORING.
- TASK 9 : CERTIFICATION.

*TASKS 1-9 DESCRIPTIONS ARE INDICATED ON PAGES 2 OF 19 THRU 6 OF 19 OF THE LUFT CONTRACT.

COUNTY OF SANTA BARBARA
Leaking Underground Fuel Tank Program
5540 Ekwill, Suite B
Santa Barbara, Ca. 93111
(805) 681-5200

Notice of Reimbursement
When Federal Funds are Used

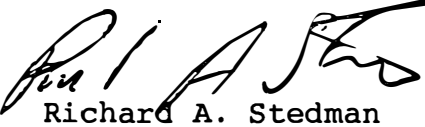
Site Code:	50119	Date First Rpt.:	02/16/90
Site Name:	Orchard Service/So. Pac. RR	Substance:	8006619
Address:	399 Linden Avenue	Petroleum:	Y
	Carpinteria, CA 93013	Closed:	-

The following information has been provided to:

Company Name:	So. Pac. Railroad	Company Name:	-0-
Contact Name:	Mr. John Moe	Contact Name:	-0-
	1 Market Plaza, Rm 1007		-0-
	San Francisco, CA 94105		-0-

For County Use: (Reference Above RP Changes)
Added _____ Deleted _____ Added _____ Deleted _____
Reasons:

Whereas the federal Petroleum Leaking Underground Storage Tank Trust Fund provides funding to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks; and Whereas the Legislature has authorized funds to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks; and Whereas the direct and indirect costs of overseeing removal or remedial action at the above site are funded, in whole or in part, from the federal Trust Fund: and Whereas the above individual(s) or entity(ies) have been identified as the party or parties responsible for investigation and cleanup of the above site; YOU ARE HEREBY NOTIFIED that pursuant to Title 42 of the United States Code, Section 6991b(h)(6) and Section 25360 of the the Health and Safety Code, the above Responsible Party or Parties shall reimburse the State Water Resources Control Board not more than 150 % of the total amount of site specific oversight cost actually incurred while overseeing the cleanup of the above underground storage tank site, and the above Responsible Party or Parties shall make full payment of such costs within 30 days of receipt of a detailed invoice from the State Water Resources Control Board.


Richard A. Stedman
LUFT Program Supervisor

Date 01/15/91

BRANCH OFFICE
500 West Foster Rd.
Santa Maria, CA 93455
(805) 934-6223

LUFT PROGRAM
MASTER COMPUTER ENTRY RECORD
UNDERGROUND STORAGE TANK CLEANUP SITE

SITE ID: 5011A SITE NAME: Orchard Service/SP Railroad RANK: 6311
 ADDRESS>STREET NUMBER: 399 STREET: Linden Ave
 CITY: Carpinteria, CA STATE/ZIP: 93012 EMPLOYEE ASSIGNED: 6314
 FUNDING: F FEDERAL EXEMPT? N SUBSTANCE: 8006614 PETROLEUM? Y
 7439921
 DATE REPORTED: 2-16-90 DATE CONFIRMED: 3-26-90 CATEGORY: R
 CASE TYPE: 6 CONTRACT STATUS: 7 DATE EMERGENCY RESPONSE:
 RP SEARCH : S DATE BEGIN: 2-20-90 DATE END: 2-20-90
 PRELIM ASSESSMENT : UC DATE BEGIN: 7/14/90 DATE END: 10/22/90
 REMEDIAL INVESTIG. : UC DATE BEGIN: 7/24/90 DATE END:
 REMEDIAL ACTION : U DATE BEGIN: 12-20-90 DATE END:
 POST REMED MONITOR : DATE BEGIN: DATE END:
 ENFORCEMENT ACTION TAKEN ? TYPE: DATE ACTION TAKEN:

UNDERGROUND STORAGE TANK CLEANUP SITE - SCREEN #2

LUFT CAT: 2 RAP: U DATE FINAL RAP APPROVED: 10/13/96
 CASE CLOSED: DATE CASE CLOSED:
 DATE EXCAVATION STARTED: 2-15-90
 REMEDIAL ACTIONS TAKEN: DATE TIME EXTEND NOTIF:

RP CONTRACT NAME: Mr Joh Moe RP COST:
 RP COMPANY NAME: Southern Pacific Railroad
 ADDRESS>STREET NUMBER: 1 STREET: Market Plaza, Rm 1007
 CITY: San Francisco, CA STATE/ZIPCODE: 94105
 COMMENT:

AUTHORIZED BY: _____ DATE: _____
 COMPUTER ENTRY BY: _____ ENTERED JAN 2 1991
 LP29 DATE:

COUNTY OF SANTA BARBARA
Leaking Underground Fuel Tank Program
5540 Ekwill, Suite B
Santa Barbara, Ca. 93111
(805) 681-5200

Notice of Reimbursement
When Federal Funds are Used

Responsible Party: Mr. John Moe	Site Code: 50119
Company Name: So. Pac. Railroad	Site Name: Orchard Service/So. Pac.
Address: 1 Market Plaza, Rm 1007	Address: 399 Linden Avenue
San Francisco, CA 94105	Carpinteria, CA 93013

Date First Reported: 02/16/90 Substance: 8006619 Petroleum: Y

Whereas the federal Petroleum Leaking Underground Storage Tank Trust Fund provides funding to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks; and Whereas the direct and indirect costs of overseeing removal or remedial action at the above site are funded, in whole or in part, from the federal Trust Fund; and Whereas the above individual(s) or entity(ies) have been identified as the party or parties responsible for investigation and cleanup of the above site; YOU ARE HEREBY NOTIFIED that pursuant to Title 42 subdivision (h) of Section 699 (b) of the United States Code, the above Responsible Party Parties shall reimburse the State Water Resources Control Board for all direct and indirect costs incurred by any and all state and local agencies while overseeing the cleanup of the above underground storage tank site, and the above Responsible Party or Parties shall make full payment of such costs within 30 days of receipt of a detailed invoice from the State Water Resources Control Board.



Richard A. Stedman
LUFT Program Supervisor

Date 06/15/90

BRANCH OFFICE
500 West Forster Rd.
Santa Maria, CA 93455
(805) 934-6223

Permit No. _____

Page 1 of 2 pages

WELL PERMIT APPLICATION

TO: Environmental Health Division
Santa Barbara County Health Care ServicesDate 10 / 29 / 90Name of Well Owner SPT CO. REAL ESTATEMailing Address 1200 Corporate Center Dr. Suite 100 Monterey Park, CA
Street, P.O. City State Zip Code Telephone 1 915 54Well Site Location: Vicinity Map Attached ☐ (Check)Assessor's Parcel No. 744 003-363-05-9 Street Address 399 Linden AveTownship T4N Range R 25-W Section 32 Rancho _____Name of Well Driller Bylick DrillingCompany Name 591 S Walnut St.Business Address La Habra CA 90631

Date of Work

Contractor's License No. 306291-C-57-SC-61 Start 10/31/90 Finish 11/2/90OTHER WATER SOURCE: Public ☐ Private ☐ None ☐

Permit Type (Check)

Construction ☒Repair/Modification ☐Destruction ☐Inactivation ☐

Well Use (Check)

Domestic ☐Agriculture ☐Cathodic ☐Test ☐

Drilling Method (Check)

Rotary ☐Cable ☐Other ☒ HollowstemProposed Depth 25 ft.Well Bore Diam 10 in.

Casing Information

Type: Steel ☐ PVC ☐ Other ☒ Steel outer casing

Wall/Gage _____ in.

Diameter 2 in.Annular Seal Depth 9 ft.

Sealing Material (Check)

Neat Cement ☐ Clay ☐Cement Grout ☒ Concrete ☐

Additional Work Description:

For Department Use Only

Application Disposition:

Approved ☐Denied ☐

Comments

I hereby agree to comply with all regulations of the County of Santa Barbara pertaining to well construction, repair, modification, destruction and inactivation. The property owner, well driller, or agent will furnish County Health Care Services a complete well log upon completion of well construction.

Signed [Signature] Applicant\$ 2 Fee paid on 6/16/91

Receipt No. _____

Name

P. J. Reynolds

Date

10-31-90S.B. ☐ Sol. ☐S.M. ☐ Lom ☐

WHEN SIGNED BY HEALTH CARE SERVICES, THIS APPLICATION IS A PERMIT. HEALTH OFFICER SHALL BE NOTIFIED PRIOR TO ALL SEALING OPERATIONS. NOTE: PERMIT EXPIRES ONE YEAR FROM DATE ISSUED.

Permit No. _____

Page 1 of 2 pages

WELL PERMIT APPLICATION

TO: Environmental Health Division
Santa Barbara County Health Care ServicesDate 129 1 90Name of Well Owner S.D.I. Co. - Real Estate
Mailing Address 100 Monterey Pk. Ca.
Street, P.O. City State Zip Code Telephone
(213) 780-6923 91751Well Site Location: Vicinity Map Attached ☒ (Check)Assessor's Parcel No. 003-363-05-9 Street Address 399 Linden AveTownship T4N Range R2S W Section 32 Rancho _____Name of Well Driller Rebeck DrillingCompany Name 511 S. Walworth StBusiness Address La Habra Ca 90631 Date of WorkContractor's License No. 306291-C-52-SC-61 Start 131 60 Finish 11 12 90OTHER WATER SOURCE: Public ☐ Private ☐ None ☐

Permit Type (Check)	Well Use (Check)	Drilling Method (Check)
Construction ☒	Domestic ☐	Rotary ☐
Repair/Modification ☐	Agriculture ☐	Cable ☐
Destruction ☐	Cathodic ☐	Other ☒ <u>Hollow Stem</u>
Inactivation ☐	Test ☐	

Proposed Depth 25 ft.Well Bore Diam 10 in.

Casing Information

Sealing Material (Check)

Neat Cement ☐ Clay ☐Cement Grout ☒ Concrete ☐Type: Steel ☐ PVC ☒ Other ☒ steel casing casing

Wall/Gage _____ in.

Diameter 2 in.Annular Seal Depth 9 ft.

Additional Work Description: _____

For Department Use Only

Application Disposition:

Approved ☐Denied ☐

Comments

I hereby agree to comply with all regulations of the County of Santa Barbara pertaining to well construction, repair, modification, destruction and inactivation. The property owner, well driller, or agent will furnish County Health Care Services a complete well log upon completion of well construction.

Signed

Applicant

\$ 0 Fee paid on 212 EIV

Receipt No. _____

Name

Date

S.B. ☐ Sol. ☐S.M. ☐ Lom ☐

WHEN SIGNED BY HEALTH CARE SERVICES, THIS APPLICATION IS A PERMIT. HEALTH OFFICER SHALL BE NOTIFIED PRIOR TO ALL SEALING OPERATIONS. NOTE: PERMIT EXPIRES ONE YEAR FROM DATE ISSUED.

Permit No. _____

Page 1 of 2 pages

WELL PERMIT APPLICATION

TO: Environmental Health Division
Santa Barbara County Health Care ServicesDate 10 129 190Name of Well Owner S.P.T.Co. - REAL ESTATEMailing Address 1200 Corporate Center Dr. Suite 100 Monterey Park Ca
Street, P.O. City State Zip Code TelephoneWell Site Location: Vicinity Map Attached ☒ (Check)Assessor's Parcel No. 003 - 363 - 05 - 9 Street Address 399 Linden Ave.Township T4N Range R25W Section 32 Rancho _____Name of Well Driller Baylick DrillingCompany Name 591 S. Walnut St.Business Address La Habra, CA. 90631

Date of Work

Contractor's License No. 306291 - C-57 SC-61Start 10/31/90 Finish 11/2/90OTHER WATER SOURCE: Public ☐ Private ☐ None ☐

Permit Type (Check)

Well Use (Check)

Drilling Method (Check)

Construction ☒Domestic ☐Rotary ☐Repair/Modification ☐Agriculture ☐Cable ☐Destruction ☐Cathodic ☐Other ☒ Hollow stemInactivation ☐Test ☐Proposed Depth 25' ft.

Casing Information

Well Bore Diam 10 in.Sch. 40 PVCType: Steel ☐ PVC ☒ Other ☒ Steel casing

Sealing Material (Check)

Wall/Gage _____ in.

Neat Cement ☐ Clay ☐Diameter 2 in.Cement Grout ☒ Concrete ☐Annular Seal Depth 9 ft.

Additional Work Description: _____

For Department Use Only

Application Disposition:

Approved ☐Denied ☐

Comments

I hereby agree to comply with all regulations of the County of Santa Barbara pertaining to well construction, repair, modification, destruction and inactivation. The property owner, well driller, or agent will furnish County Health Care Services a complete well log upon completion of well construction.

Signed

Applicant

\$ 2 Fee paid on 10/29/90

Receipt No. _____

Name

10-31-90

Date

S.B. ☐ Sol. ☐S.M. ☐ Lom ☐

WHEN SIGNED BY HEALTH CARE SERVICES, THIS APPLICATION IS A PERMIT. HEALTH OFFICER SHALL BE NOTIFIED PRIOR TO ALL SEALING OPERATIONS. NOTE: PERMIT EXPIRES ONE YEAR FROM DATE ISSUED.

Permit No. _____

Page 1 of 2 pages

WELL PERMIT APPLICATION

TO: Environmental Health Division
Santa Barbara County Health Care ServicesDate 10/29/90Name of Well Owner SPT Co - RealesmaMailing Address 1000 Corporate Center Dr Suite 100 Monterey Park CA
Street, P.O. City State Zip Code TelephoneWell Site Location: Vicinity Map Attached ☐ (Check)Assessor's Parcel No. 123-123 05 9 Street Address 399 Linden AveTownship T 4 N Range R 25 W Section 32 Rancho _____

Name of Well Driller _____

Company Name _____

Business Address _____ Date of Work _____

Contractor's License No. _____ Start 10/31/90 Finish 10/31/90OTHER WATER SOURCE: Public ☐ Private ☐ None ☐

Permit Type (Check)	Well Use (Check)	Drilling Method (Check)
Construction ☐	Domestic ☐	Rotary ☐
Repair/Modification ☐	Agriculture ☐	Cable ☐
Destruction ☒	Cathodic ☐	Other ☐
Inactivation ☐	Test ☐	

Proposed Depth _____ ft.

Casing Information

Well Bore Diam _____ in.

Type: Steel ☐ PVC ☐ Other ☐

Sealing Material (Check)

Wall/Gage _____ in.

Neat Cement ☐ Clay ☐

Diameter _____ in.

Cement Grout ☐ Concrete ☐

Annular Seal Depth _____ ft.

Additional Work Description: _____

For Department Use Only

Application Disposition:

Approved ☐Denied ☐

Comments _____

I hereby agree to comply with all regulations of the County of Santa Barbara pertaining to well construction, repair, modification, destruction and inactivation. The property owner, well driller, or agent will furnish County Health Care Services a complete well log upon completion of well construction.

Signed _____

Applicant

\$ 0 Fee paid on 10/29/90

Receipt No. _____

Name _____

Date _____

S.B. ☐ Sol. ☐S.M. ☐ Lom ☐

WHEN SIGNED BY HEALTH CARE SERVICES, THIS APPLICATION IS A PERMIT. HEALTH OFFICER SHALL BE NOTIFIED PRIOR TO ALL SEALING OPERATIONS. NOTE: PERMIT EXPIRES ONE YEAR FROM DATE ISSUED.

FORMER LOCATION OF UGSTS

WAREHOUSE

Abandoned well

EXCAVATION

WAREHOUSE

DIRECTION OF
GROUND WATER FLOW



⊙ PROPOSED WELL LOCATIONS

● EXISTING WELL LOCATIONS



**SP ENVIRONMENTAL
SYSTEMS**

PROJECT NO. 05149

DATE: 9-17-90

DRAWN BY: EG

CHECKED BY:

**PROPOSED MONITORING
WELL LOCATIONS**

FIGURE

NTS
SCALE



COUNTY OF SANTA BARBARA
PROTECTION SERVICES DIVISION
Hazardous Materials Unit

2125 S. Centerpointe Pkwy. #333, Santa Maria, CA 93455 (805) 346-8477 FAX (805) 346-8485
4410 Cathedral Oaks Road, Santa Barbara, CA 93110 (805) 681-5500 FAX (805) 681-5553

March 4, 1996

FILE COPY

Mr. John Moe
Southern Pacific Railroad
One Market Plaza, Room 1007
San Francisco, CA 94105

Dear Mr. Moe:

RE: Closure Request for Southern Pacific Transportation Company Property
399 Linden Avenue, Carpinteria, California
LUFT Site #50119

This letter confirms the completion of site investigation and remedial action at the above site. Providing the information submitted to the Santa Barbara County Protection Services Division, Hazardous Materials Unit was accurate and representative of existing conditions, it is our position that no further remedial action is required at this time. The following actions must be taken to gain site closure:

- ☐ The vapor extraction wells must be properly abandoned.
- ☐ Following the abandonment of the vapor extraction well(s) please submit a brief report summarizing the effectiveness of this work and the abandonment procedures. A final site closure letter will be sent.
- ☐ All drums must be properly labeled, manifested (or equiv.) and transported to an appropriate disposal facility. If the material is hazardous, this must be completed within 90 days.
- ☒ All groundwater monitoring wells must be properly abandoned. Prior to abandonment, permits must be obtained from the County and the City. The County will then notify the Regional Water Quality Control Board so that they can issue the site closure letter.
- ☐ An inspector from the County must be present to verify this site work. Please call at least forty-eight (48) hours in advance to schedule an appointment.

Mr. Moe
Page 2
March 4, 1996

- ☐ Open excavations and/or construction debris may pose a health hazard. This should be mitigated or at a minimum, public access should be restricted by a fence.
- ☐ Other site specific requirements.

If you have any questions or comments regarding this matter, please contact me at (805) 346-8285.

Very truly yours,

Barbara A. Fontes

Barbara A. Fontes
Hydrogeologist
SMU/LUFT Program

BF:ck
50119.pre

Enclosure

pc: Richard Aleshire, RWQCB
Richard Evans, Protection Services Division
Ana Nathe, Industrial Compliance

CASE CLOSURE SUMMARY

Leaking Underground Fuel Storage Tank Program

I. Agency Information

Date: February 29, 1996

Agency Name: Santa Barbara County LUFT Program	Address: 4410 Cathedral Oaks Road
City/State/Zip: Santa Barbara, CA 93110	Phone: (805) 681-4046
Responsible staff person: Richard Evans	Title: Hazardous Material Specialist

II. Case Information

Site facility name: Orchard Services 1 SPT C Property		
Site facility address: 399 Linden, Carpinteria, CA		
RB LUSTIS Case #:	Local Case #: 50119	LOP Case #: 50119
URF filing date:	SWEEPS #:	
Responsible Parties:	Addresses:	Phone #:
Southern Pacific Railroad	One Market Plaza, Room 1007	916 369-8971
% Mr. John Moe	San Francisco, CA 94105	

Tank #	Size in Gal.	Contents	Closed in-Place/Removed?	Date
1	250	Gasoline	Removed	02/1990
2	1,000	Gasoline	Removed	02/1990
3	1,000 gal	Gasoline	Removed	10/1990

III. Release and Site Characterization Information

Cause and type of release: Stoddard solvent - over fill. Tanks had no holes.			
Site characterization complete? ☒ Yes ☐ No		Date approved by oversight agency: 05/13/92	
Monitoring Wells Installed? ☒ Yes ☐ No		Number: 4	Proper screened interval? ☒ Yes ☐ No
Highest GW depth below ground surface: 19		Low depth: 19	Flow Direction: South Westerly & South
Most Sensitive current use: None			
Are drinking water wells affected? ☐ Yes ☒ No		Aquifer Name: Carpinteria GW Basin	
Is surface water affected? ☐ Yes ☒ No		Nearest/affected SW Name: None	
Off-site beneficial use impacts (addresses/locations): None			
Reports(s) on file? ☒ Yes ☐ No		Where is report(s) filed? EHS Goleta Office	

Treatment and Disposal of Affected Material			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	250 & 1,000 gal		02/15-16/90
Free Product	10 gallons	Gibson Oil	02/14-16/90
Soil	150 cubic yards	Ventura Sanitation District	04/01/92
Soil	25 cubic yards	Forward Inc. Stockton, CA	1990
Soil	320 cubic yards	McKittrick - Liquid Waste Management	10/31/90
Soil	19 cubic yards	Ventura Sanitation District	04/9/92

CASE CLOSURE SUMMARY

Leaking Underground Fuel Storage Tank Program

Page 2

III. Release and Site Characterization Information (Continued)

Maximum Documented Contaminant Concentrations--Before and After Cleanup									
Contaminant	Soil (ppm)		Water (ppm)		Contaminant	Soil (ppm)		Water (ppm)	
	Before	After	Before	After		Before	After	Before	After
TPH (Gas)	70	ND	.077	.160	Xylene	.72	ND	<.0005	ND
TPH (Diesel)	NA	NA	<.050	ND	Ethylbenzene	2.8	ND	<.0005	ND
Benzene	.10	ND	<.0005	ND	Oil & Grease				
Toluene	.59	ND	<.0005	ND	Sol. Pb	0.74	0.74	NA	NA
TPH	3,800	2,800	ND	ND	Heavy Metals				
Stod Solvent					C4 - C12	470	—	NA	NA
					Other				

Comments (Depth of Remediation, etc.): 514 cubic yards of soil treated and non-treated were excavated. Only one small area along the railroad tracks contained TPH as stod solvent at 2800 ppm. groundwater test results show that groundwater has not been impacted. Groundwater is under confined conditions and non-detect.

IV. Closure

Does completed corrective action protect existing beneficial uses per the RB Basin Plan? ☒ Yes ☐ No

Does completed corrective action protect potential beneficial uses per the RB Basin Plan? ☒ Yes ☐ No

Does corrective action protect public health for current land use? ☒ Yes ☐ No

Site management requirements:

Should corrective action be reviewed if land use changes? ☐ Yes ☒ No

Monitoring Wells Decommissioned: ☒ Yes ☐ No Number Decommissioned: 4 Number Retained:

List enforcement actions taken: None

List enforcement actions rescinded: None

V. Local Agency Representative Data

Name: Steven C. Dastic Title: Hazardous Material Specialist Supervisor

Signature: *Steven C. Dastic* Date: 3/5/96

VI. RWQCB Notification

Date Submitted to RB: * RB Response:

RWQCB Staff Name: Title: Date:

VII. Additional Comments, etc.

* Case closure summary is not required to be submitted to the RWQCB. This is a soil only case/per our interagency agreement.

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.

cks0119.tbl

PUBLIC RECORD REVIEW AGREEMENT

Request to access files shall be in writing to the
Hazardous Materials Unit File Review Coordinator
195 West Highway 246 Suite 102 Buellton, CA 93427 FAX (805) 686-8183

Requestors Name Marla Dailey Agency / Affiliation Buyer

Address 1010 Anacapa St. S.B. CA 93101 943-4949
(Number) (Street) (City) (State) (ZIP) (Phone Number)

SITE ADDRESS/NAME OF BUSINESS	APN/SITE I.D. #
	*Primary File
<u>399 Linden Ave</u>	<u>50119</u>

*REQUEST LETTER/FAX SHALL RESIDE IN PRIMARY FILE ABOVE.

Files Requested: GEN ☐ UST ☐ LUFT ☐ SMU ☐ Other ☐
Business Plan information requires a submittal of a Community-Right-to-Know form

RESPONSIBILITY STATEMENT

I have read and understand the Public Records Review Guidelines on the back of this page
and agree to abide by them.

RYAN HAMILTON
PRINT NAME

[Signature]
SIGNATURE

4/13/04
DATE

FOR COUNTY USE BELOW THIS LINE

Letter attached: YES ☐ No ☐ Business/Property Owner ☐ Agent of Business/Property Owner ☐

ACTION	DATE	INITIAL	NOTES
REQUEST RECEIVED	2-23-04	RB	
SUPERVISOR REVIEW	2-25-04	KS	
ACKNOWLEDGE	2-26-04	RB	will talk to R.G.??
CONTACT #1	3-11-04	RB	on vac w 22nd
CONTACT #2			
CONTACT #3			
IDENTIFICATION			PHOTO ID ie. Drivers license, Identification card, Student ID, etc.

Number of Copies _____ @ \$.52 = \$ _____ Date _____ Receipt Number _____



FIRE DEPARTMENT

County of Santa Barbara
Fire Prevention Division

Public Record Review Guidelines

To protect the records and your right to review them, please follow these "Guidelines for Public Record Review." You are asked to sign the agreement on the back of this page, stating that you have read and agree to comply with these directions.

AN APPOINTMENT MUST BE ARRANGED TO REVIEW PUBLIC RECORDS IN ADVANCE

Any person may request access to public records (excluding privileged legal or trade secret information) of this agency by fax or mail. A request will reasonably describe an identifiable record or information to be produced. A request will be processed as soon as possible, taking into consideration staff availability. Upon receipt of a written request, the File Review Coordinator will contact you and coordinate a time and date for the review. Making an appointment will insure files will be available for your review, saving your time as well as ours. In the interest of fairness, there may be a limit of the number of files per request. Due to the number of requests that are generated by our office on a weekly basis, it may be seven (7) to ten (10) days for a request to be processed, based on staff availability.

WHAT TO DO WHEN YOU ARRIVE

The File Review Coordinator will ensure that you have read and signed this Public Record Review form prior to reviewing any files. You **MUST** provide photo identification before given access to the requested files. You will be provided with a pencil for notes, and paper clips to indicate pages you wish to have copied.

- No pens are allowed near the files
- Do not remove pages or mark on the public records.
- Altering or removing documents is an offense punishable by law
- No records will be permitted to leave this office

IF YOU WOULD LIKE COPIES OF PUBLIC RECORDS

If you wish to have a limited number of pages copied, this office will attempt to meet your needs for a nominal fee of \$.52 a sheet. For copying beyond this, you will need to contact a bonded copying company. The copying company of your choice will then schedule at time with the File Review Coordinator to come to this office and copy your documents.

REV. 9/18/2003

Mr. Paul Bailey
Buellton, CA
FAX 805 686-8183

RE: LUFT File #50119

Hello Mr. Bailey,

I would like to make arrangements to see your files regarding LUFT Site #50119 owned by Union Pacific Railroad. Don Caldwell of their Real Estate Division referred me.

The Railroad would like to sell this Carpinteria property, and we are considering a purchase, but first need further background information.

Thank you for your attention.

Marla Daily
1010 Anacapa Street
Santa Barbara, CA 93101
805 963-4949

FAX 805 963-9433
email: scifmail@west.net

PUBLIC RECORD REVIEW AGREEMENT

FAKED

Requests to access records will be made in writing to the Hazardous Materials Unit and will be conducted during office hours.

Requestors Name: William Maranis Agency/Affiliation: Geomatrix

Address _____ (Number: _____ Street: _____ City: _____ St.: _____ ZIP: _____) (Phone Number: _____)

Site Address/Name of Business
See Attached

• Assessors Parcel No.
• Site LD. No.

Request For: Generator File ☐ UST Files ☐ LUFT Files ☐ SMU Files ☐ All Haz. Mat. Files ☐

RESPONSIBILITY STATEMENT (This does not apply for "List Request")

I have read and understand the Public Records Review Guidelines on the back of this page and agree to abide by them.

Jeffrey A. Austin [Signature] 7/6/99
(Print Name of Person Reviewing Record(s)) (Signature) (Date)

For County Use Below This Line

Letter Attached: Yes ☐ No ☐ Business/Property Owner ☐ Agent of Business/Property Owner ☐

	DATE	ACTION	SIGNATURE/NOTES
1	6/26/99	REQUEST RECEIVED	OK
2	6/28/99	ACKNOWLEDGE RECEIPT	OK - Wants file Review in S.B.
3	6/28/99	SUPERVISOR REVIEW	[Signature]
4	7/1/99	REQUESTOR CONTACTED	Scheduled
		REQUESTOR CONTACTED	
5	7/6/99	REVIEWED FILE	Sylvia

NOTE: 1. Request received by Clerical Staff 2. Requester notified that request was received 3. Supervisor reviewed request 4. Clerical Staff contacted Requestor to arrange time and date of file review 5. Requestor completed reviewing files

Date and Time Scheduled for Review: 7/6/99 Afternoon

Number of Copies Requested: _____ @ \$.35 = \$ _____ Postage Fee _____ = \$ _____

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FAX**GEOMETRIX**from **Geomatrix Consultants, Inc.**2444 Main Street, Suite 215
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www.geomatrix.com

Date:

6/25/99

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To:

Carey Kling

From:

William Aravanis

Phone

805-346-8485

Fax Phone

CC:

Phone

559-264-2535

Fax Phone

559-264-7431

REMARKS:☐ Hard copy to follow ☒ Urgent ☐ For your review ☐ Reply ASAP ☐ Please comment

I need to do a review of files for the
attached 6 sites if you have any.

When is the soonest time that I can
do that?

WTA

San Francisco, CA • San Leandro, CA • Fresno, CA • Sacramento, CA • Costa Mesa, CA • Austin, TX • Houston, TX
Minneapolis, MN • Detroit, MI • Buffalo, NY • Niagara Falls, ON • Kitchener-Waterloo, ON

Environmental File Review
Carpinteria, California

	Site Name	Site Address	
2 ✓	Orchard Services	399 Linden Avenue	- LUFT 50119
2 ✓	Carpinteria Motor Transport	411 Palm Avenue 410 Palm	- LUFT 50039
-	Carpinteria Lumber	915 Elm Avenue	
4 ✓	Fortunato Chevron	4991 Carpinteria Avenue	- LUFT 50221 + 50227
17 ✓	Exxon/Hondo (McDonalds)	1115 Casitas Pass Road	- LUFT 51211
2 ✓	Arco Station #1980	1116 Casitas Pass Road	- LUFT 51686

6/28/99

He has requested to view the files in S.B.
on July 6th in morning if possible.

Casey

SOIL SAMPLE RESULTS BEFORE CLEANUP

ORCHARD SERVICES

Results of Soil Sampling
Performed

(All Results in mg/kg)

Before soil samples

Sample No.	Location	TTLc Lead	BTEX	TPH
OS-1	9', West	19	benzene .10 toluene .59 ethylbenzene .52 xylene .72	gas 40 stod solvent 300
OS-2	Stockpile fill	28	benzene - toluene .009 ethylbenzene .010 xylene .025	gas <.5 stod solvent 5.9
OS-3	Stockpile sandy	120*	benzene .05 toluene .04 ethylbenzene 1.0 xylene .20**	gas 70 stod solvent 400
OS-4	4', East	21	benzene .01 toluene .04 ethylbenzene .13 xylene .05	gas 8 stod solvent 85

* STLC value for this sample was 0.74 mg/liter

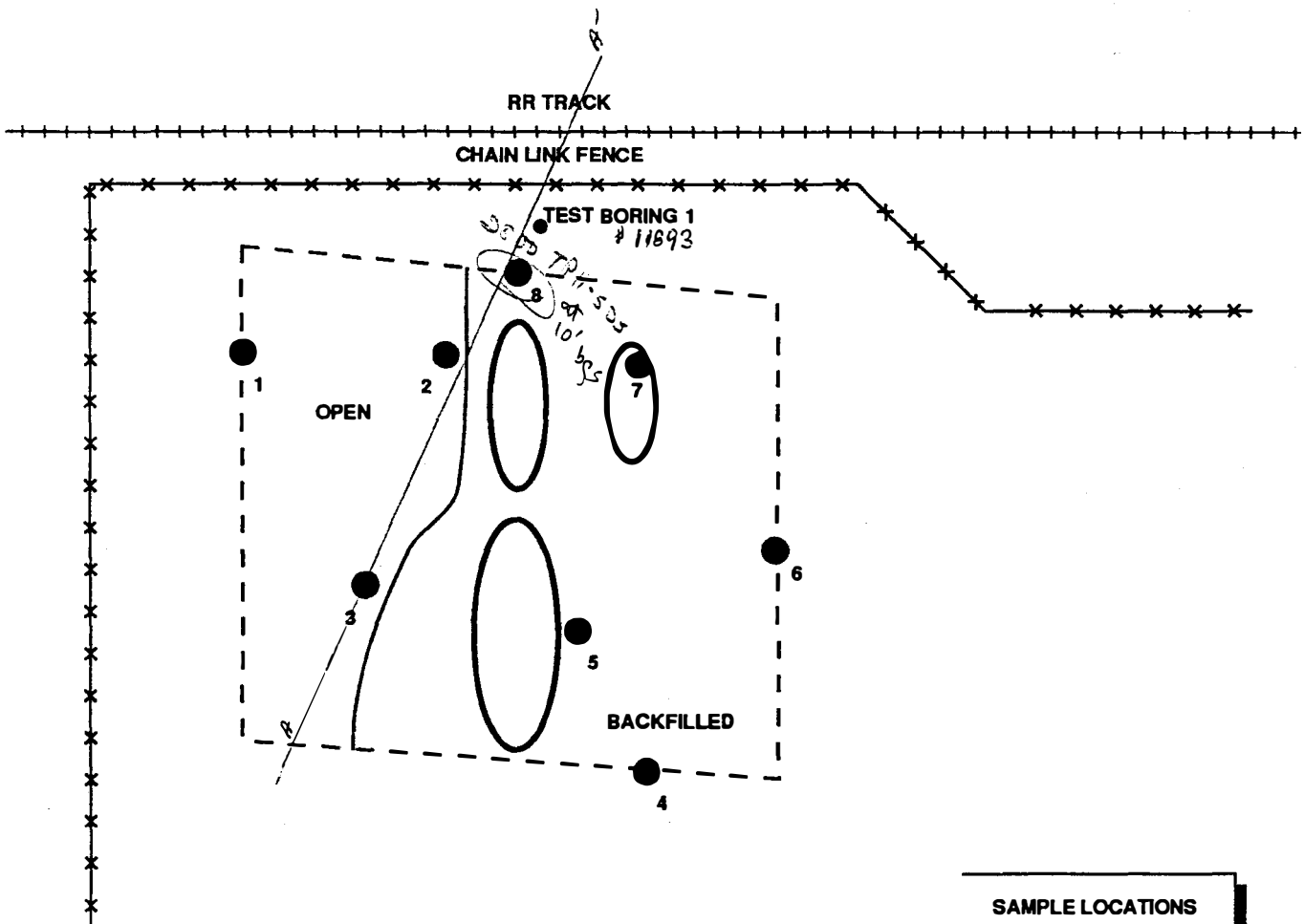
** Non detectable for all other analytes in EPA Method 8240

Performed

(All Results in mg/kg)

Sample No.	Location	TTLc Lead	BTEX	TPH
11062	10' depth, northwest corner of excavation	na*	benzene <0.005 toluene 0.015 ethylbenzene 0.005 xylene 0.016	gas <1 stod solvent <1
11061	8' depth, east end of excavation	na*	benzene 0.06 toluene 0.33 ethylbenzene 2.8 xylene 0.30	gas <50 stod solvent 3800
11060	Stockpile Soil	14 ✓	benzene <0.05 toluene 0.33 ethylbenzene 0.35 xylene 0.86	gas <50 stod solvent 400
11059	Stockpile Soil	26 ✓	benzene <0.05 toluene <0.05 ethylbenzene 0.61 xylene <0.05	gas <50 stod solvent 900

Additional soil sampling



LEGEND

-  FORMER UST LOCATION
-  SAMPLE LOCATION

SAMPLE LOCATIONS

- 1 = 11881
- 2 = 11882
- 3 = 11883
- 4 = 11884
- 5 = 11885
- 6 = 11886
- 7 = 11887
- 8 = 11888



**SP ENVIRONMENTAL
SYSTEMS, INC.**

PROJECT NO: 05149

DRAWN BY: PD

CHECKED BY: DCG

**SAMPLE LOCATIONS
ORCHARD SERVICES
CARPINTERIA, CALIFORNIA
SOUTHERN PACIFIC TRANSPORTATION CO.**

**FIGURE
2**

**N.T.S.
SCALE**

TABLE 3

ORCHARD SERVICES

Analytical Results of Soil Samples Collected from the Tank Excavation
Performed

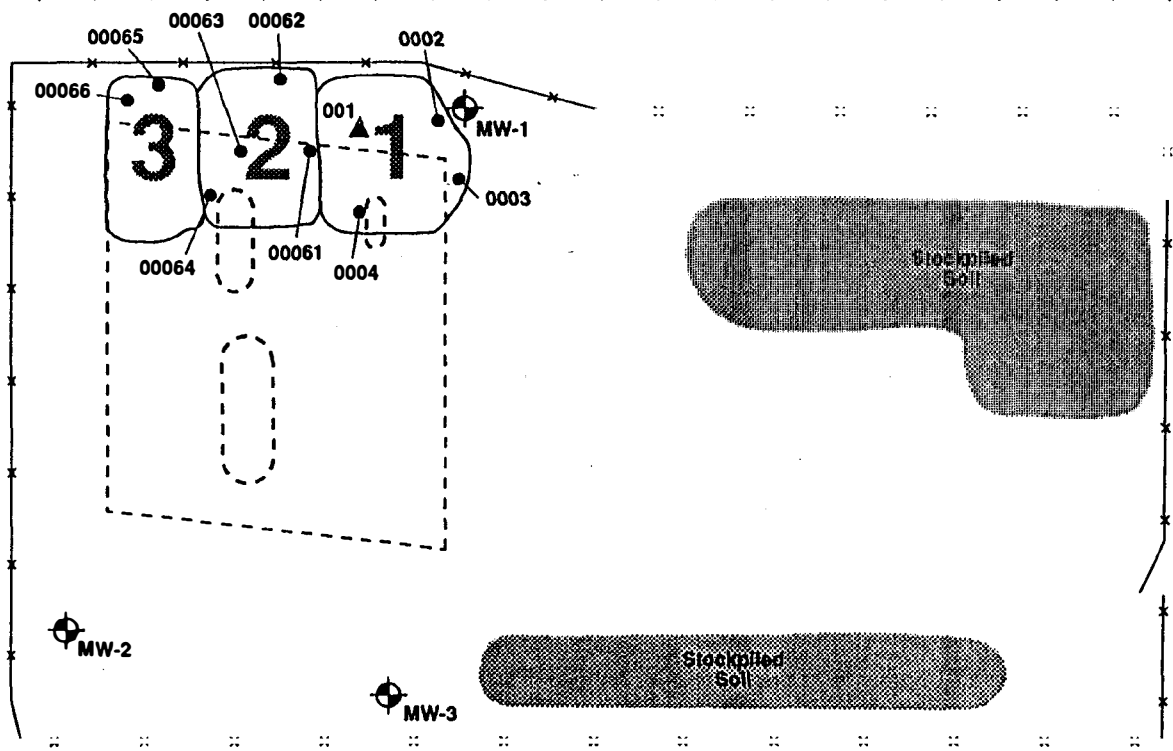
(All results in mg/kg)

Sample Number	Location in Excavation	BTEX		TPH	
1 11881	Northwest Sidewall 11' Deep	Benzene	<0.005	Gasoline, Diesel	<1
		Toluene	<0.005	Stoddard Solvent	
		Ethylbenzene	<0.005		
		Xylenes	0.010		
2 11882	Northwest Bottom 10' Deep	Benzene	<0.005	Gasoline, Diesel	<1
		Toluene	<0.005	Stoddard Solvent	
		Ethylbenzene	<0.005		
		Xylenes	0.005		
3 11883	South Bottom, Center 10' Deep	Benzene	<0.005	Gasoline, Diesel	<1
		Toluene	<0.005	Stoddard Solvent	
		Ethylbenzene	<0.005		
		Xylenes	<0.005		
4 11884	South Wall 10' Deep	Benzene	<0.005	Gasoline, Diesel	<1
		Toluene	<0.005	Stoddard Solvent	
		Ethylbenzene	<0.005		
		Xylenes	0.016		
5 11885	Southeast Bottom 11' Deep	Benzene	<0.005	Stoddard Solvent	7
		Toluene	<0.005		
		Ethylbenzene	<0.005		
		Xylenes	<0.005		
6 11886	Southeast Wall 8' Deep	Benzene	<0.005	Gasoline, Diesel	<1
		Toluene	<0.005	Stoddard Solvent	
		Ethylbenzene	<0.005		
		Xylenes	0.008		
7 11887	Northeast Bottom, Center 10' Deep	Benzene	<0.005	Gasoline, Diesel	<1
		Toluene	<0.005	Stoddard Solvent	
		Ethylbenzene	<0.005		
		Xylenes	<0.005		
8 11888	North Wall 10' Deep	Benzene	0.018	Stoddard Solvent	2800
		Toluene	0.019		
		Ethylbenzene	0.090		
		Xylenes	0.021		
RP-1 11893	Test Boring	Benzene	<0.005	Gasoline	<10
		Toluene	<0.005		
		Ethylbenzene	<0.005		
		Xylenes	<0.015		

Adjacent to
Rail Road
Tracks —

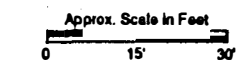
VERIFICATION SOIL SAMPLES AFTER CLEANUP

*Verification Soil Sample location
March 1991*



LEGEND

- MW-2 Monitoring Well
- Soil Sample Location
- Water Sample Location
- Former Underground Storage Tank Location
- Previous Excavation (Prior to April 1991)
- Railroad Tracks
- Fence
- Additional Section Excavations (March 1991)



SP ENVIRONMENTAL SYSTEMS, INC.	
PROJECT NO: 05149	DATE: 07/12/91
DRAWN BY: PD	CHECKED BY: AN

SAMPLE LOCATION MAP
SOUTHERN PACIFIC TRANSPORTATION CO.
 399 LINDEN AVENUE
 CARPINTERIA, CALIFORNIA

FIGURE 2
SCALE: as shown

05149 Fig 2a Soil Rem. Rpt 0791

Table 1
Summary of Soil and Water Sample Analytical Results
Southern Pacific Transportation Company
Orchard Services
399 Linden Avenue
Carpinteria, California
SPEvS Project No. 05149

(All results shown are in parts per million)

July - 1991

Sample Number	Sample ¹ Location	Sample ² Depth	Sample Matrix	BTEX AND TPH WITH FUEL IDENTIFICATION ³				
				Benzene	Toluene	Ethylbenzene	Xylenes	TPH
0002	East Side	18'	soil	<0.005	<0.005	<0.005	<0.005	<1
0003	East Side	18'	soil	<0.005	<0.005	<0.005	<0.005	<1
0004	South Side	17'	soil	<0.005	<0.005	<0.005	<0.005	<1
00061	East Side	9.5'	soil	<0.005	<0.005	<0.005	<0.005	<1
00062	Northeast Side	11'	soil	<0.005	<0.005	<0.005	<0.005	<1
00063	Bottom Center	16'	soil	<0.005	<0.005	<0.005	<0.005	<1
00064	West Side	16'	soil	<0.005	<0.005	<0.005	<0.005	<1
00065	North Side	9'	soil	<0.005	0.013	<0.005	0.019	<1
00066	North side	13'	soil	<0.005	0.012	<0.005	0.016	<1
0001	East Side	18'	water	<0.05	<0.05	<0.05	<0.05	620 ⁴

- 1 Sample locations are depicted on Figure 2.
- 2 Sample depth denotes distance in feet below ground surface.
- 3 BTEX and TPH with fuel identification analyzed by gas chromatography/mass spectroscopy (GC/MS) for TPH (Modified 8240) as cited in CAL-LUFT. p. A18 (Oct. 1989), extracted by EPA Method 5020 - Purge and Trap.
- 4 620 ppm TPH reported as Stoddard Solvent.
- < Denotes analyte not detected at or above the detection limit listed.

GROUNDWATER SAMPLES RESULTS AFTER TANK PULL

ORCHARD SERVICES
Results of Groundwater Analyses for
Total Petroleum Hydrocarbons (ug/l)
Performed
[REDACTED]

Sample Location	Date	Kerosene	Diesel	Gasoline
W1	10/27/89	ND (0.5)	ND (0.5)	ND (50)
W2	10/27/89	ND (0.5)	ND (0.5)	77
W3	10/27/89	ND (0.5)	ND (0.5)	ND (50)
W4	10/27/89	ND (0.5)	ND (0.5)	ND (50)

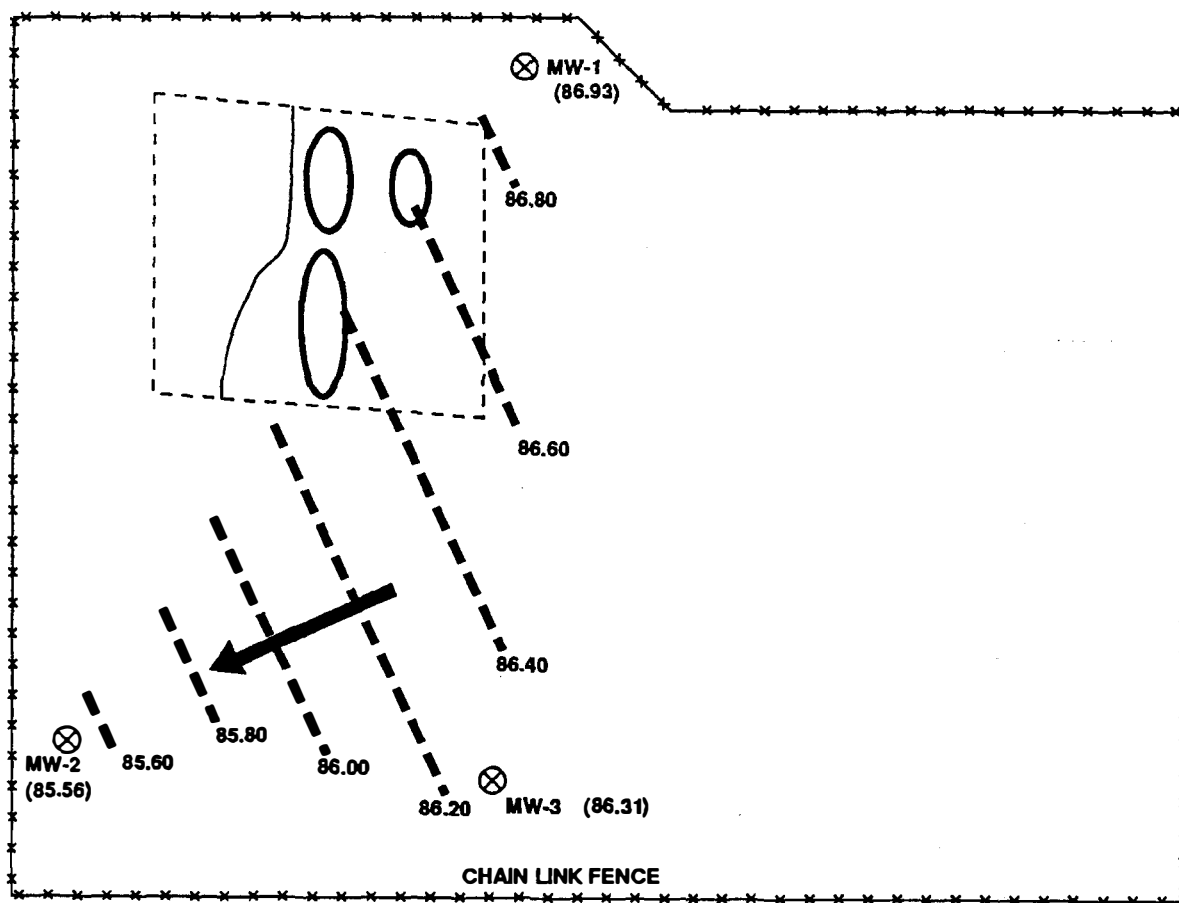
[REDACTED]
 (All results in ug/l)

Sample Location	BTEX	TPH
MW-1	Benzene <0.5 Toluene <0.5 Ethylbenzene <0.5 Xylenes <0.5	Gasoline, Diesel <50 Stoddard Solvent
MW-2	Benzene <0.5 Toluene <0.5 Ethylbenzene <0.5 Xylenes <0.5	Gasoline, Diesel <50 Stoddard Solvent
MW-3	Benzene <0.5 Toluene <0.5 Ethylbenzene <0.5 Xylenes <0.5	Gasoline, Diesel <50 Stoddard Solvent



North

RR TRACK



LEGEND



FORMER UST LOCATION



MW-1 (86.93)

MONITORING WELL (ELEVATION)

86.20 - - -

LINE OF EQUAL WATER ELEVATION BASED ON
ARBITRARILY ASSIGNED DATUM



GENERAL DIRECTION OF GROUNDWATER FLOW

NOTE: Water level countours based on measurements taken on November 16, 1990.



**SP ENVIRONMENTAL
SYSTEMS, INC.**

PROJECT NO: 05149

DATE: 11/16/90

DRAWN BY: PD

CHECKED BY: DCG

**POTENTIOMETRIC SURFACE MAP
ORCHARD SERVICES
CARPINTERIA, CALIFORNIA
SOUTHERN PACIFIC TRANSPORTATION CO.**

**FIGURE
3**

**N.T.S.
SCALE**

GROUNDWATER SAMPLE RESULTS TWO YEARS AFTER CLEANUP

**COAST-TO-
COAST
ANALYTICAL
SERVICES**

Air, Water & Hazardous Waste Sampling, Analysis & Consultation
Certified Hazardous Waste, Chemistry, Bacteriology & Bioassay Laboratories

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Newport Beach, CA • Valparaiso, IN • Westbrook, ME

Santa Barbara Division
751 S. Kellogg, Goleta, California 93117

(805) 964-7838
FAX (805) 967-4386

CLIENT: Todd Hook
Industrial Compliance
9719 Lincoln Village Suite 310
Sacramento, CA 95827

Lab Number : GF-1048-1
Project : 05149 399 Linden,
Carpenteria
Analyzed : 04/09/92
Analyzed by: MM
Method : As Listed

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED		
17666 Well #1	Groundwater	Evelyn Ransom	03/31/92	04/01/92	
CONSTITUENT	(CAS RN)	*PQL µg/L	RESULT µg/L	NOTE	
TOTAL PURGEABLE PETROLEUM HYDROCARBONS				1,2	
Total Petroleum Hydrocarbons (Gasoline)		50.	ND		
Total Petroleum Hydrocarbons (Diesel 2)		50.	ND		
Total Petroleum Hydrocarbons (Stoddard)		50.	ND		
Percent Surrogate Recovery			79.		

Santa Barbara Division Lab Certifications: CAELAP #1204; L.A.Co.CSD#10186

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) EXTRACTED by EPA 5030 (purge-and-trap)

(2) ANALYZED by CAL DHS DRAFT TPH (modified) and EPA 8260 (GC/MS)

1992 Water Samples

RECEIVED

APR 15 1992

INDUSTRIAL COMPLIANCE

04/09/92
MSD1
MC/jaj/mcc
HP-040992

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.

Marissa Coronel
Marissa Coronel
Laboratory Director

**COAST-TO-
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Certified Hazardous Waste, Chemistry, Bacteriology & Bioassay Laboratories

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Newport Beach, CA • Valparaiso, IN • Westbrook, ME

Santa Barbara Division
751 S. Kellogg, Goleta, California 93117

(805) 964-7838
FAX (805) 967-4386

CLIENT: Todd Hook
Industrial Compliance
9719 Lincoln Village Suite 310
Sacramento, CA 95827

Lab Number : GF-1048-2
Project : 05149 399 Linden,
Carpenteria
Analyzed : 04/09/92
Analyzed by: MM
Method : As Listed

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED		
17667 Well #2	Groundwater	Evelyn Ransom	03/31/92	04/01/92	
CONSTITUENT	(CAS RN)	*PQL µg/L	RESULT µg/L	NOTE	
TOTAL PURGEABLE PETROLEUM HYDROCARBONS				1,2	
Total Petroleum Hydrocarbons (Gasoline)		50.	ND		
Total Petroleum Hydrocarbons (Diesel 2)		50.	ND		
Total Petroleum Hydrocarbons (Stoddard)		50.	ND		
Percent Surrogate Recovery			82.		

Santa Barbara Division Lab Certifications: CAELAP #1204; L.A.Co.CSD#10186

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

- (1) EXTRACTED by EPA 5030 (purge-and-trap)
- (2) ANALYZED by CAL DHS DRAFT TPH (modified) and EPA 8260 (GC/MS)

04/09/92
MSD1
MC/jaj/mcc
HP-040992

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.


Marissa Coronel
Laboratory Director

**COAST-TO-
COAST
ANALYTICAL
SERVICES**

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 Newport Beach, CA • Valparaiso, IN • Westbrook, ME

Santa Barbara Division
 751 S. Kellogg, Goleta, California 93117

(805) 964-7838
 FAX (805) 967-4386

CLIENT: Todd Hook
 Industrial Compliance
 9719 Lincoln Village Suite 310
 Sacramento, CA 95827

Lab Number : GF-1048-3
 Project : 05149 399 Linden,
 Carpenteria
 Analyzed : 04/09/92
 Analyzed by: JJ
 Method : As Listed

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED		
17668 Well #3	Groundwater	Evelyn Ransom	03/31/92	04/01/92	
CONSTITUENT	(CAS RN)	*PQL µg/L	RESULT µg/L	NOTE	
TOTAL PURGEABLE PETROLEUM HYDROCARBONS				1,2	
Total Petroleum Hydrocarbons (Gasoline)		50.	ND		
Total Petroleum Hydrocarbons (Diesel 2)		50.	ND		
Total Petroleum Hydrocarbons (Stoddard)		50.	ND		
Percent Surrogate Recovery			80.		

Santa Barbara Division Lab Certifications: CAELAP #1204; L.A.Co.CSD#10186

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) EXTRACTED by EPA 5030 (purge-and-trap)

(2) ANALYZED by CAL DHS DRAFT TPH (modified) and EPA 8260 (GC/MS)

04/09/92
 MSD1
 MC/jaj/mcc
 HP-040992

Respectfully submitted,
 COAST-TO-COAST ANALYTICAL SERVICES, INC.

Marissa Coronel
 Marissa Coronel
 Laboratory Director

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COAST
ANALYTICAL
SERVICES**

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Certified Hazardous Waste, Chemistry, Bacteriology & Bioassay Laboratories
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Newport Beach, CA • Valparaiso, IN • Westbrook, ME

Santa Barbara Division
751 S. Kellogg, Goleta, California 93117

(805) 964-7838
FAX (805) 967-4386

QC Batch ID: HP-040992

CLIENT: Coast-to-Coast Analytical Services, Inc.

Analyzed : 04/09/92
Analyzed by: JJ
Method : As Listed

QC MATRIX SPIKE
REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY		SAMPLED DATE RECEIVED	
MATRIX SPIKE	Aqueous				
CONSTITUENT	ORIGINAL RESULT	SPIKE AMOUNT	RESULT µg/L	%REC	NOTE
TOTAL PURGEABLE PETROLEUM HYDROCARBONS					1,2
Total Petroleum Hydrocarbons (Gasoline)	ND	150.	140.	93.	

Santa Barbara Division Lab Certifications: CAELAP #1204; L.A.Co.CSD#10186

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) EXTRACTED by EPA 5030 (purge-and-trap)

(2) ANALYZED by CAL DHS DRAFT TPH (modified) and EPA 8260 (GC/MS)

04/09/92
MSD1
MC/jaj/mcc
GF1048-3

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.


Marissa Coronel
Laboratory Director

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Newport Beach, CA • Valparaiso, IN • Westbrook, ME

Santa Barbara Division
751 S. Kellogg, Goleta, California 93117

(805) 964-7838
FAX (805) 967-4386

QC Batch ID: HP-040992

CLIENT: Coast-to-Coast Analytical Services, Inc.

Analyzed : 04/09/92
Analyzed by: JJ
Method : As Listed

QC MATRIX SPIKE
REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED			
MATRIX SPIKE DUPLICATE	Aqueous					
CONSTITUENT	ORIGINAL RESULT	SPIKE AMOUNT	RESULT μg/L	%REC	%DIFF	NOTE
TOTAL PURGEABLE PETROLEUM HYDROCARBONS						1,2
Total Petroleum Hydrocarbons (Gasoline)	ND	150.	160.	107.	13.	

Santa Barbara Division Lab Certifications: CAELAP #1204; L.A.Co.CSD#10186

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) EXTRACTED by EPA 5030: (purge-and-trap)

(2) ANALYZED by CAL DHS DRAFT TPH (modified) and EPA 8260 (GC/MS)

04/09/92
MSD1
MC/jaj/mcc
GF1048-3

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.


Marissa Coronel
Laboratory Director



♦ SANTA BARBARA COUNTY ♦
♦ ENVIRONMENTAL HEALTH SERVICES ♦
♦ SMU/LUFT PROGRAM ♦
♦ SITE INVESTIGATION REPORT ♦

Site Name: Southern Pacific
Site Location: 399 LINDEN
Site #: 50119 Contact: Scott TERRANOEA Phone: (747) 890 5133
Consultant: _____

Date: 1/11/96
Arrived: 8:00
Departed: _____

Drillers: TERRINEXT

Samples Collected:
X Water _____ Soil

Depth to GW: 9.5' BGS
Type of substance released: DIESEL
Field Screening Equipment: _____
Consultant: E.C. METER SMU/LUFT: e
Purpose of Site Visit: _____

Analyses:
EPA method
602

Witness groundwater sampling

Lab: THEKUAL

FIELD OBSERVATIONS / COMMENTS:

Photos: Yes ☐ No ☒

Met with Mr. Terranoea on site. According to Mr. Terranoea the three monitoring wells on site will be purged of approximately 3 well volumes before sampling. Once the wells are purged they are allowed to recover at least 80% and checked with an EC meter before sampling. He stated there was no field indication of free product or color. Samples are taken with a disposable bailer, transfer to 40 ml vials and placed in a cooler with Blue Ice. The samples will be picked-up by the lab on 1/12/96.

Follow-up Items: Submital of lab analysis

Investigated By: Richard Evans
Copy Received By: de

Date: 1/11/96
Date: 1-11-96



♦ SANTA BARBARA COUNTY ♦
♦ ENVIRONMENTAL HEALTH SERVICES ♦
♦ SMU/LUFT PROGRAM ♦
♦ SITE INVESTIGATION REPORT ♦

Site Name: Southern Pacific
Site Location: 399 LINDEA
Site #: 50119 Contact: Scott TERRANOEA Phone: (84) 940 5133
Consultant: _____

Date: 1/11/96
Arrived: 8:00
Departed: _____

Drillers: TERRINEXT

Depth to GW: 9.5' BGS

Type of substance released: DIESEL

Field Screening Equipment: _____

Consultant: E.C. METER SMU/LUFT: 2

Purpose of Site Visit: _____

Witness groundwater sampling

Samples Collected:
☒ Water ☐ Soil

Analyses:
ETA method
602

Lab: THERMAL

FIELD OBSERVATIONS / COMMENTS:

Photos: Yes ☐ No ☒

Met with Mr. Terranoea on site. According to Mr. Terranoea
the three monitoring wells on site will be purged of approximately
3 well volumes before sampling. Once the wells are purged
they are allowed to recover at least 80% and checked with an
EC meter before sampling. He stated there was no field indication
of free product or odor. Samples are taken with a disposable
bailer, transfer to 40 ml vials and placed in a cooler with
Blue Ice. The samples will be picked-up by the lab
on 1/12/96.

Follow-up Items: _____

Submitted for lab analysis

Investigated By: Richard Evans

Date: 1/11/96

Copy Received By: Sh

Date: 1-11-96

County of Santa Barbara
Health Care Services - LUFT Program
Site Investigation Report

Site Name: Orchard Sacs
Site Location: 399 Linden, Corp.
Site No: _____
Person Contacted: Brigitte Lievens
Consultant Firm: SP Environmental

Date: 4/30/91
Arrival: _____
Departure: _____
Phone: _____
Phone: _____

Estimated depth to groundwater: ~10 FT
Type of hazardous substance released: gas, poss standard
Field Screening Equipment:
- Consultant supposedly HNU (not used)
- LUFT _____

Purpose of Inspection: To witness sampling @
excavation

RP Samples Taken
☒ H₂O ☒ Soil

Analysis:
EPA 8240 BTEX
TPH for Standard
24 hr TAT

RP Laboratory: _____

LUFT Samples Taken
____ H₂O ____ Soil

Analysis: _____

Field Observations / Comments:

Excavation quite large (see map). Soil very sandy and slumping extensively. Excavation was very difficult; backhoe having difficulty w/ maintaining a stable footing. Excavation bottom at 18' IMs. Lievens stated that based on visual observation and smell she had dug down that far. She requested bottom ^{and side} sampling at this point to ~~be~~ be able to fill in part of the pit to

Investigated By: Deanna Cummings Date: _____

dig at the north wall, where she suspected
contamination went under the ^{railroad} tracks. After
conferring with Kate Sulka, I agreed.
Samples taken as shown on attached map.

County of Santa Barbara
Health Care Services - LUFT Program
Site Investigation Report

Site Name: Orchard Sacs
Site Location: 399 Linden, Carp
Site No: _____
Person Contacted: Brigitte Lievens
Consultant Firm: SP Environmental

Date: 5/1/91
Arrival: _____
Departure: _____
Phone: _____
Phone: _____

Estimated depth to groundwater: ~10ft
Type of hazardous substance released: gas, poss sludged
Field Screening Equipment:
- Consultant PID
- LUFT _____

Purpose of Inspection: To witness sampling at excavation.

RP Samples Taken
____ H₂O ____ ☒ Soil

Analysis:
EPA 8240 BTEX
TPH for sludged
24 hr TAT

RP Laboratory: _____

LUFT Samples Taken
____ H₂O ____ Soil

Analysis: _____

Field Observations / Comments:

The pit had been further excavated to extent shown on map. Once again slumping was a problem; samples were taken as shown on attached map. Yesterdays' soil anal. results were ND, according to Lievens. She said they weren't finished excavating and did not want to sample west wall. She requested filling in south end of pit to

Investigated By: _____ Date: _____

be able to easily reach more of north wall and east wall. I agreed, provided they were able to get at north wall where Brigitte had taken a PIT reading of 1000ppm approx 2 ft to left of monitoring well and 4 ft from fence, to a depth of seven. Her only other reading was 3ppm at the northeast corner.



CHAIN LINK FENCE

Proposed Area of
Additional Excavation

2800 ppm TPH, as Stoddard Solvent

this
was OPEN
dig to
5' bgs
when LEFT
specialist in
site

BACKFILLED

●₁

1 = 11881
2 = 11882
3 = 11883
4 = 11884
5 = 11885
6 = 11886
7 = 11887
8 = 11888



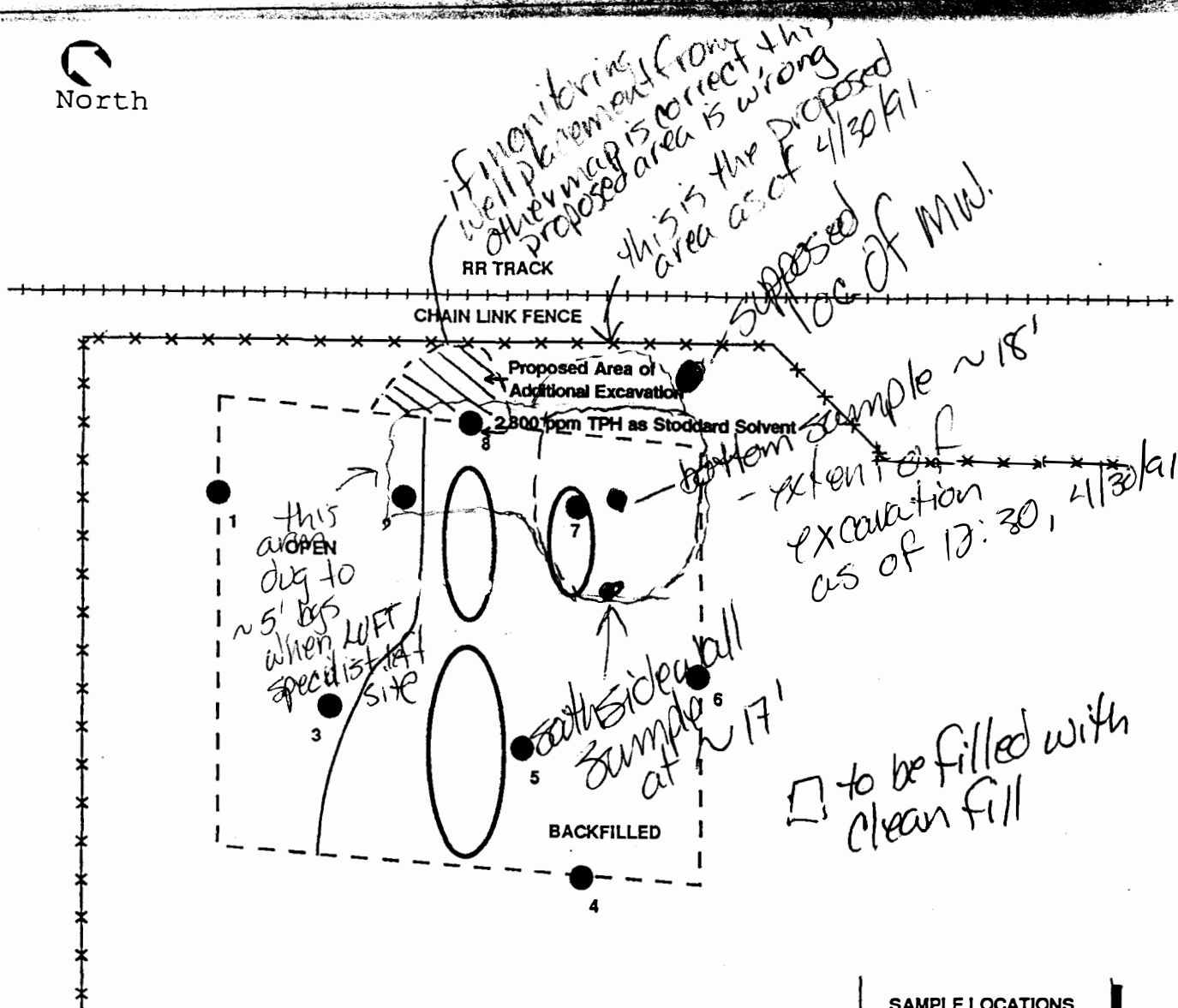
**SP ENVIRONMENTAL
SYSTEMS, INC.**

CHECKED BY: DCG

**SITE MAP
SOUTHERN PACIFIC TRANSPORTATION CO.
399 LINDEN AVENUE
CARPINTERIA, CALIFORNIA**

SCALE

North



LEGEND

- FORMER UST LOCATION
- ₁ SAMPLE LOCATION

SAMPLE LOCATIONS

- 1 = 11881
- 2 = 11882
- 3 = 11883
- 4 = 11884
- 5 = 11885
- 6 = 11886
- 7 = 11887
- 8 = 11888



SP ENVIRONMENTAL SYSTEMS, INC.

PROJECT NO: 05149

DATE: 11/16/90

DRAWN BY: PD

CHECKED BY: DCG

SITE MAP
SOUTHERN PACIFIC TRANSPORTATION CO.
399 LINDEN AVENUE
CARPINTERIA, CALIFORNIA

FIGURE
2

N.T.S.
SCALE



(916) 369-8971
NETWORK (916) 449-1890
FAX (916) 369-8371

ANA NATHE
PROJECT GEOLOGIST

SP ENVIRONMENTAL SYSTEMS INC.
9719 LINCOLN VILLAGE DR., SUITE 310
SACRAMENTO, CA 95827

SITE INSPECTION REPORT

Site Name: Orland Services Date: Oct 31, 1990
Site Location: 399 Lindin Arrival: 8:30 2:00
SITE NO: 50119 Departure: 11:30 2:30
Person Contacted: Ana Nathe - Bridget Lievens Phone: _____
Consultant Firm: S P Environmental Phone: _____

DRAFT

Estimated depth to groundwater: 11'

Type of hazardous substance released:
Gasoline

Field Screening Equipment:
- Consultant

- LUFT
Microtip PID

Purpose of Inspection:
To oversee excavation, sampling activities

RP Samples Taken
H₂O 8 Soil

Analysis:
8260 mod

RP Laboratory:
CCAS

LUFT Samples Taken
H₂O _____ Soil

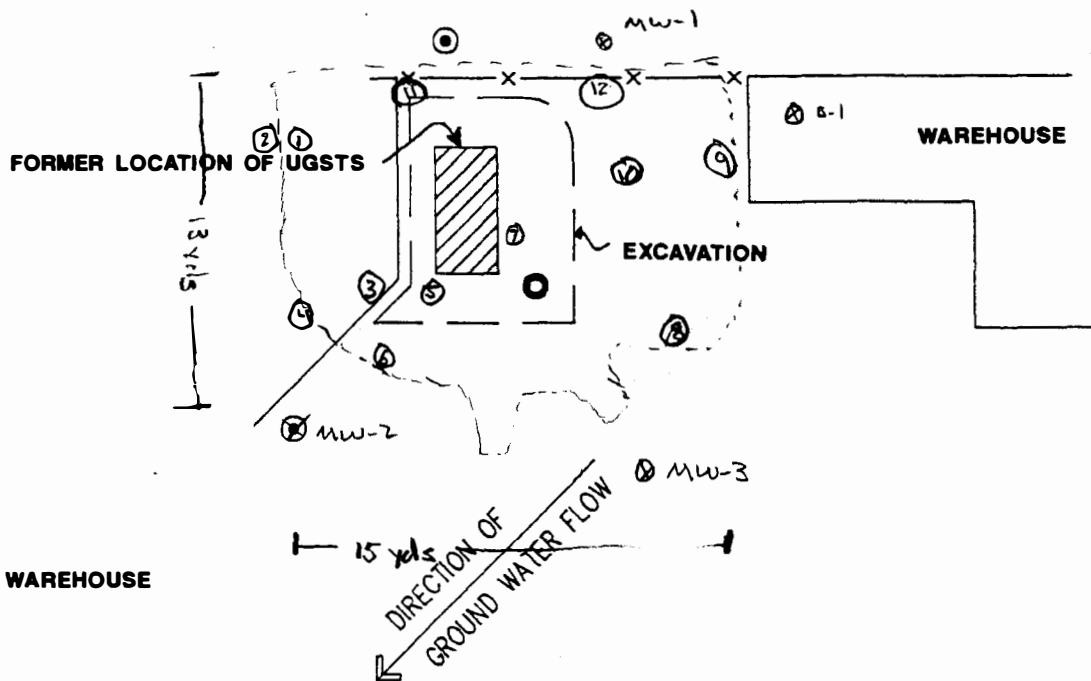
Analysis:

Field Observations / Comments:

Eight soil samples were taken in the pit. All samples
are being run in a 24 hr IAT by Coast to Coast
Analytical. In addition, the three wells were started
and the prior well in the excavation was destroyed
by filling it with concrete.

Investigated By: Leif Reynolds

Date: Oct 31, 1990



- 1) 0 ppm bottom U/W corner bottom 10'
- * 2) 0 ppm wall (11881) 8'
- * 3) 60 ppm sluff 0 on bottom (11882)
- 4) 0 side wall
- * 5) 300 bottom (11883)
- * 6) 30 side wall 8' (11884)
- * 7) 2000 bottom, sand (11885) 9'?
- * 8) 110 side wall 7' (11886)
- 9) 2 side wall 8'
- * 10) 100 bottom, sand (11887)
- * 11) 2500 side wall (11888)
- 12) sidewall 220 ppm - no sample, probably hot

⊗ PROPOSED WELL LOCATIONS

● EXISTING WELL LOCATIONS



SP ENVIRONMENTAL SYSTEMS

PROJECT NO. 05149

DATE: 9-17-90

DRAWN BY: EG

CHECKED BY:

PROPOSED MONITORING WELL LOCATIONS

FIGURE

NTS
SCALE

10/31
9:30
2011/11/05

County of Santa Barbara
Environmental Health Department. LUFT Program
SITE INSPECTION REPORT

Site Name: Southern Pacific RR Site# 50119 Date: 10/30/90
Site Location: 399 Linden Ave Arrival: 10:00 - 11:30
Departure: 2:10 -
Person Contacted: Anna Withe (916) 369-8971 Phone: (916) 369-8971
Consultant Firm: Brigette Lievens Phone: _____
Mail Address: S.P. Environmental

Estimated depth to groundwater: _____
Type of hazardous substance released: _____

Field Screening Equipment:
-Consultant _____

-LUFT

Microtip PID
Purpose of Inspection: _____

RP Samples Taken
____ H2O ____ SOIL
Analysis: _____

RP Laboratory: _____

LUFT Samples Taken
____ H2O ____ Soil
Analysis: _____

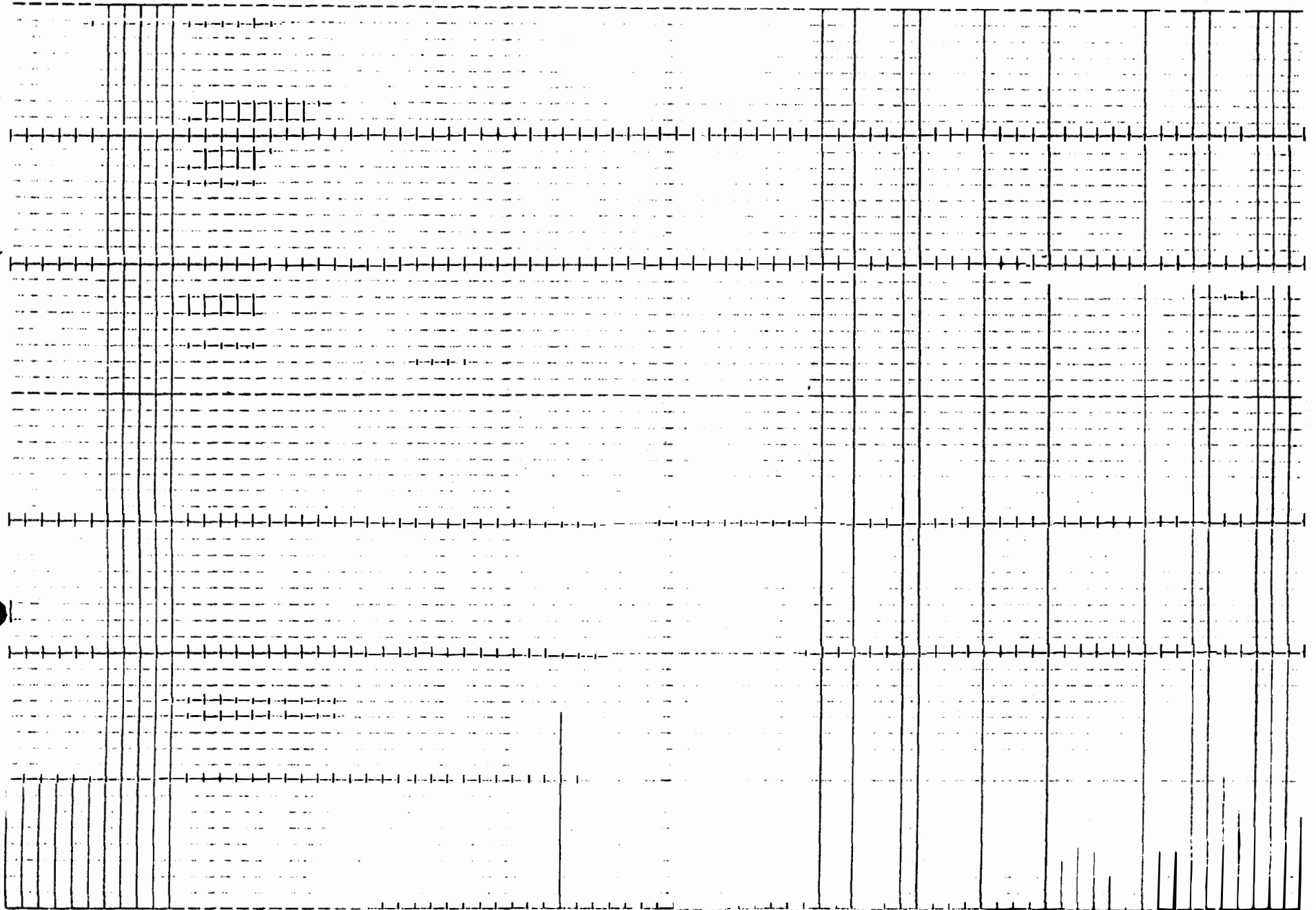
* PID reading from tank uncovered 10-29 is 37 ppm

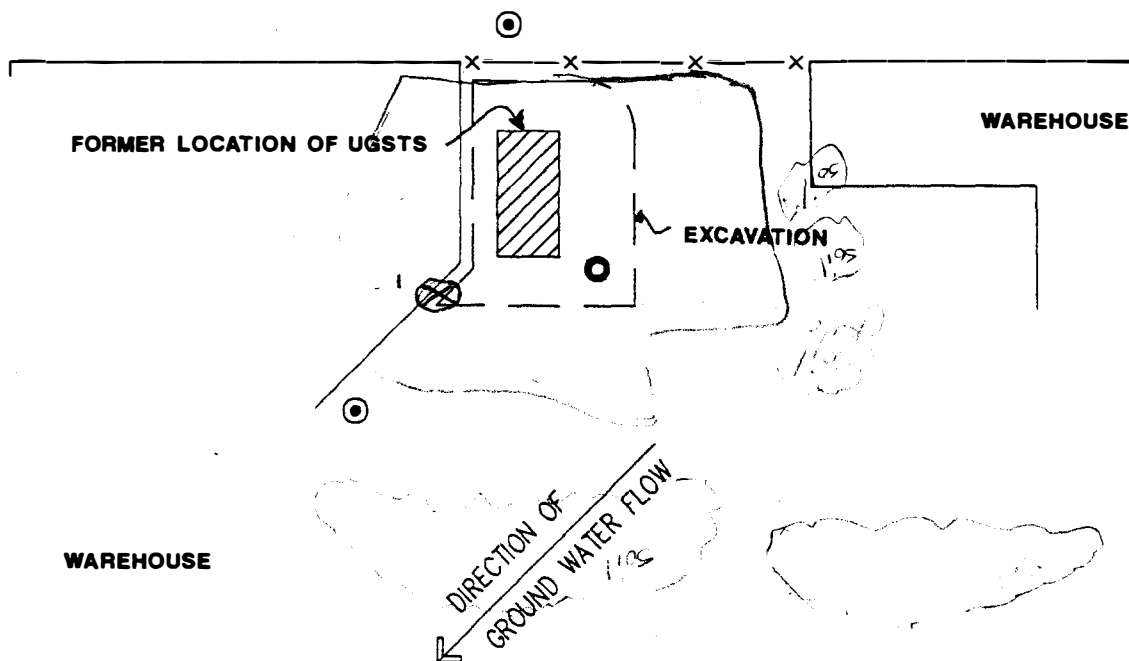
Field Observations/Comments:

Contaminated soil sent to McKittrick 10-29-90 - 5 trucks - look for 5 manifests.
#1 - floor - 10' depth - 700 ppm

Investigated By:
A: \INSPECT-8/90

Date: 10/30/90





⊙ PROPOSED WELL LOCATIONS

● EXISTING WELL LOCATIONS



SP ENVIRONMENTAL SYSTEMS

PROJECT NO. 05149

DATE: 9-17-90

DRAWN BY: EG

CHECKED BY:

PROPOSED MONITORING WELL LOCATIONS

FIGURE

NTS
SCALE

SITE INSPECTION REPORT

Site Name: Southern Pacific Railroad Date: 10-29-90
Site Location: 399 Linden Arrival: 3:00
SITE NO: 50119 Departure: 4:00
Person Contacted: Brigitte Lievens Phone: _____
Consultant Firm: SP Environmental Phone: _____

DRAFT

Estimated depth to groundwater: 10'

Type of hazardous substance released:

gasoline

Field Screening Equipment:

- _____

H-nu PID

- LUFT

Purpose of Inspection:

Site visit to oversee excavation
and monitoring well activities

RP Samples Taken
_____ H₂O _____ Soil

Analysis:

RP Laboratory:

LUFT Samples Taken
_____ H₂O _____ Soil

Analysis:

Field Observations / Comments:

Kate Sulka and myself visited the site and met
with Brigitte Lievens. She informed us they had
been working at the site since Thursday but could
not reach LUFT. There were trenches dug around
the pit to try to determine the extent of contamination.
Brigitte field screened the soil to tell her when she had

Investigated By:

Gif Reynolds

Date:

10-29-90

got out of the contamination. At that time, she proceeded to excavate approximately 350 yards of soil. I will visit the site on 10/30/90 to field screen and sample the sides and the bottom of the pit. In the process of the excavation, a 280 gallon tank was discovered. It is on site and will be hauled as hazardous if I get vapor readings from it tomorrow.



(916) 369-8971
NETWORK (916) 449-1890
FAX (916) 369-2370

BRIGITTE LIEVENS
TECHNICIAN

SP ENVIRONMENTAL SYSTEMS INC.
9719 LINCOLN VILLAGE DR., SUITE 310
SACRAMENTO, CA 95827

County of **S.B.**
Environmental Health Department • LUFT Program
SITE INSPECTION REPORT

Site Name: Archival Services / So Pac. RR Date: 7-24-90
Site Location: 399 Lincoln Arrival: 8:15 1 hr drive
SITE NO: _____ Departure: 1:15
Person Contacted: Elizabeth Gillis Phone: 315-5100
Consultant Firm: S P Environmental Systems Phone: 1 hr drive

DRAFT

Estimated depth to groundwater: 10'

Type of hazardous substance released: gasoline

RP Samples Taken
H₂O X Soil

Analysis:
8015
8020

Field Screening Equipment:
- Consultant

RP Laboratory:
CCAS

- LUFT
Microtip PTO

Purpose of Inspection:
To observe samples and dig out.

LUFT Samples Taken
H₂O Soil
Analysis:

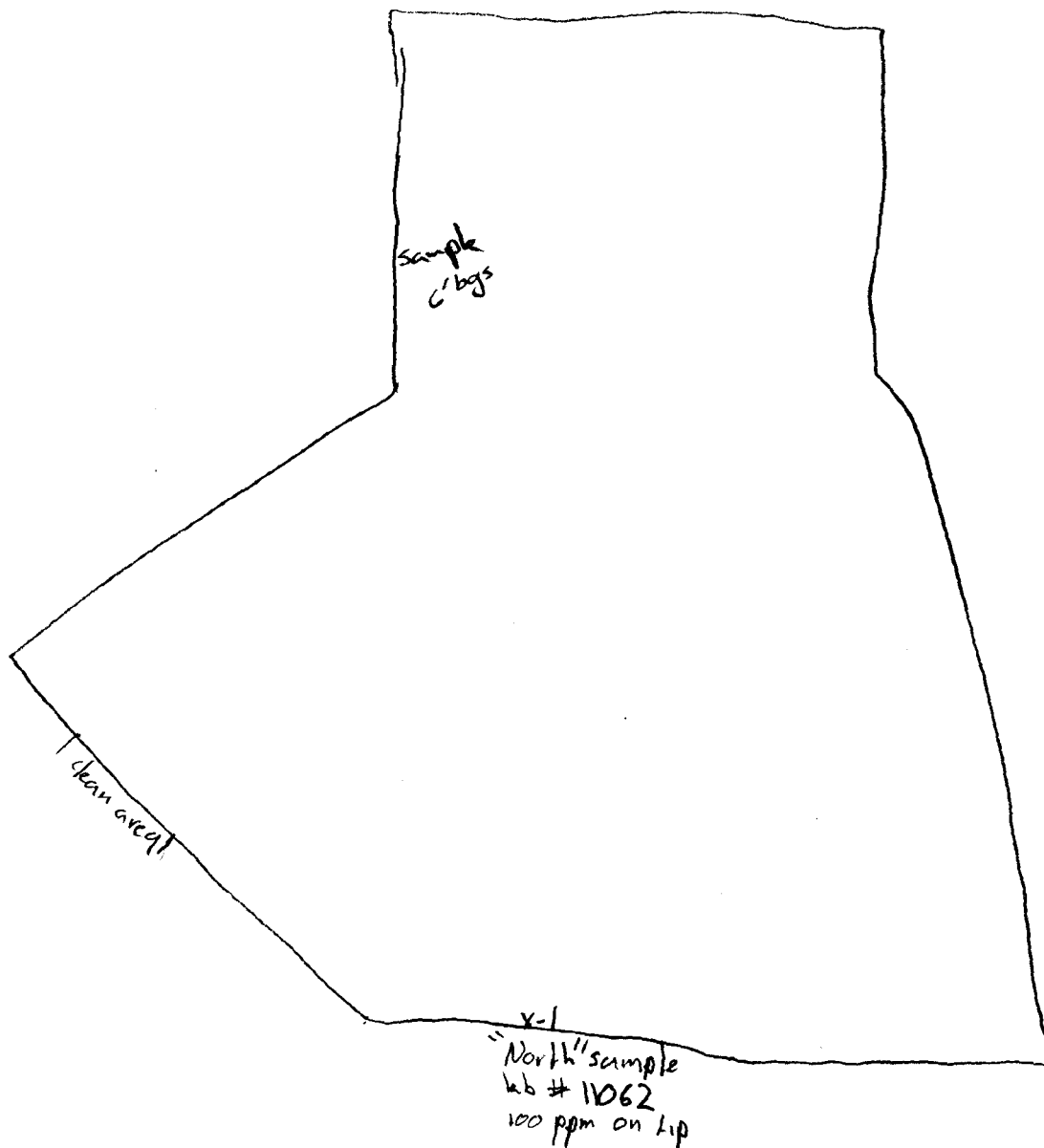
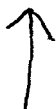
Field Observations / Comments:

Elizabeth excavated approximately 150 yds of
soil and did not get to the limits of the
excavation. There was a sand lense from 5 to 8'
lbs that was giving Microtip Readings of
1500 to 1800 ppm. She took three soil samples,
one of the hot stuff, one of the soils pile,

Investigated By:

Date:

and one of the "clean lense" found in the pit (see drawing on
opposite side). She was going to meet with Paul and
Richard on 7-25-90 to discuss further excavation.
Approximately 150 cubic yards of soil has been excavated and
stack piled on site.



150

13 1/2
7 1/2
1.5
590
280
1170
high
18 x 3 x 6
1.5

500
120

11 x 3 x 2
11 x 3 x 1

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY ☐ YES ☒ NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ YES ☒ NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFETY CODE. SIGNATURE: <i>[Signature]</i> DATE: 6/1/90	
REPORT DATE 0 M 5 M 20 9 D 9 Y 0 Y		CASE # ATS 1826			
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Leif Reynolds		PHONE (805) 681-5200		SIGNATURE <i>Leif Reynolds</i>
	REPRESENTING ☒ LOCAL AGENCY ☐ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ OTHER		COMPANY OR AGENCY NAME Environmental Health HCS		
	ADDRESS 5540 Ekwill STREET CITY Santa Barbara STATE CA ZIP 93111				
RESPONSIBLE PARTY	NAME S.P. Environmental Systems ☐ UNKNOWN		CONTACT PERSON Elizabeth Gillis		PHONE (916) 369-8971
	ADDRESS 9719 Lincoln Village Drive, Ste. 310 CITY Sacramento, STATE CA ZIP 93013				
SITE LOCATION	FACILITY NAME (IF APPLICABLE) Orchard Services		OPERATOR Chuck McNeil		PHONE (805) 684-4796
	ADDRESS 399 Linden Ave. STREET Carpinteria, CITY CA COUNTY SB ZIP 93013				
	CROSS STREET				
IMPLEMENTING AGENCIES	LOCAL AGENCY Env. Health/S.B. Co. LUFT Program		CONTACT PERSON Leif Reynolds		PHONE (805) 681-5200
	REGIONAL BOARD Central Coast Region		CONTACT PERSON Mike Thomas		PHONE (805) 549-3147
SUBSTANCES INVOLVED	(1) NAME Gasoline		QUANTITY LOST (GALLONS) ☒ UNKNOWN		
	(2) NAME Stoddard Solvent		☒ UNKNOWN		
DISCOVERY/ABATEMENT	DATE DISCOVERED 0 M 2 M 1 D 5 D 9 Y 0 Y		HOW DISCOVERED ☐ TANK TEST ☒ TANK REMOVAL ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS		
	DATE DISCHARGE BEGAN M M D D Y Y ☒ UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) ☒ REMOVE CONTENTS ☐ REPLACE TANK ☒ CLOSE TANK ☐ REPAIR TANK ☐ REPAIR PIPING ☐ CHANGE PROCEDURE		
	HAS DISCHARGE BEEN STOPPED? ☒ YES ☐ NO IF YES, DATE 0 M 2 M 1 D 6 D 9 Y 0 Y		☒ OTHER Remove tank		
SOURCE/CAUSE	SOURCE OF DISCHARGE ☐ TANK LEAK ☒ UNKNOWN ☐ PIPING LEAK ☐ OTHER		CAUSE(S) ☐ OVERFILL ☐ RUPTURE/FAILURE ☐ SPILL ☐ CORROSION ☐ UNKNOWN ☐ OTHER		
	CASE TYPE ☒ UNDETERMINED ☐ SOIL ONLY ☐ GROUNDWATER ☐ DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)				
CURRENT STATUS	CHECK ONE ONLY ☐ NO ACTION TAKEN ☒ PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED ☐ POLLUTION CHARACTERIZATION ☐ LEAK BEING CONFIRMED ☐ PRELIMINARY SITE ASSESSMENT UNDERWAY ☐ POST CLEANUP MONITORING IN PROGRESS ☐ REMEDIATION PLAN ☐ CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) ☐ CLEANUP UNDERWAY				
	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) ☐ EXCAVATE & DISPOSE (ED) ☐ REMOVE FREE PRODUCT (FP) ☐ ENHANCED BIO DEGRADATION (IT) ☐ CAP SITE (CD) ☐ EXCAVATE & TREAT (ET) ☐ PUMP & TREAT GROUNDWATER (GT) ☐ REPLACE SUPPLY (RS) ☐ CONTAINMENT BARRIER (CB) ☐ NO ACTION REQUIRED (NA) ☐ TREATMENT AT HOOKUP (HU) ☐ VENT SOIL (VS) ☐ VACUUM EXTRACT (VE) ☒ OTHER (OT)				
	COMMENTS Site Investigation in progress. No remedial actions taken yet. Two (2) tank removed 1-250 gal. and 1-1000 gal. approx. age 40				

HSC 05 (11/89)

INSTRUCTIONS

EMERGENCY

Indicate whether emergency response personnel and equipment were involved at any time. If so, a Hazardous Material Incident Report should be filed with the State Office of Emergency Services (OES) at 2800 Meadowview Road, Sacramento, CA 95832. Copies of the OES report form may be obtained at your local underground storage tank permitting agency. Indicate whether the OES report has been filed as of the date of this report.

LOCAL AGENCY ONLY

To avoid duplicate notification pursuant to Health and Safety code Section 25180.7, a designated government employee should sign and date the form in this block. A signature here does not mean that the leak has been determined to pose a significant threat to human health or safety, only that notification procedures have been followed if required.

REPORTED BY

Enter your name, telephone number, and address. Indicate which party you represent and provide company or agency name.

RESPONSIBLE PARTY

Enter name, telephone number, contact person, and address of the party responsible for the leak. The responsible party would normally be the tank owner.

SITE LOCATION

Enter information regarding the tank facility. At a minimum, you must provide the facility name and full address.

IMPLEMENTING AGENCIES

Enter names of the local agency and Regional Water Quality Control Board involved.

SUBSTANCES INVOLVED

Enter the name and quantity lost of the hazardous substance involved. Room is provided for information on two substances if appropriate. If more than two substances leaked, list the two of most concern for cleanup.

DISCOVERY/ABATEMENT

Provide information regarding the discovery and abatement of the leak.

SOURCE/CAUSE

Indicate source(s) of leak. Check box(es) indicating cause of leak.

CASE TYPE

Indicate the case type category for this leak. Check one box only. Case type is based on the most sensitive resource affected. For example, if both soil and ground water have been affected, case type will be "Ground Water". Indicate "Drinking Water" only if one or more municipal or domestic water wells have actually been affected. A "Ground Water" designation does not imply that the affected water cannot be, or is not, used for drinking water, but only that water wells have not yet been affected. It is understood that case type may change upon further investigation.

CURRENT STATUS

Indicate the category which best describes the current status of the case. Check one box only. The response should be relative to the case type. For example, if case type is "Ground Water", then "Current Status" should refer to the status of the ground water investigation or cleanup, as opposed to that of soil. Descriptions of options follow:

No Action Taken - No action has been taken by responsible party beyond initial report of leak.
Leak Being Confirmed - Leak suspected at site, but has not been confirmed.

Preliminary Site Assessment Workplan Submitted - workplan/proposal requested of/submitted by responsible party to determine whether ground water has been, or will be, impacted as a result of the release.
Preliminary Site Assessment Underway - implementation of workplan.
Pollution Characterization - responsible party is in the process of fully defining the extent of contamination in soil and ground water and assessing impacts on surface and/or ground water.
Remediation Plan - remediation plan submitted evaluating long term remediation options. Proposal and implementation schedule for appropriate remediation options also submitted.
Cleanup Underway - implementation of remediation plan.
Post Cleanup Monitoring in Progress - periodic ground water or other monitoring at site, as necessary, to verify and/or evaluate effectiveness of remedial activities.
Case Closed - regional board and local agency in concurrence that no further work is necessary at the site.

IMPORTANT: THE INFORMATION PROVIDED ON THIS FORM IS INTENDED FOR GENERAL STATISTICAL PURPOSES ONLY AND IS NOT TO BE CONSTRUED AS REPRESENTING THE OFFICIAL POSITION OF ANY GOVERNMENTAL AGENCY

REMEDIAL ACTION

Indicate which action have been used to cleanup or remediate the leak. Descriptions of options follow:

Cap Site - install horizontal impermeable layer to reduce rainfall infiltration.
Containment Barrier - install vertical dike to block horizontal movement of contaminant.
Excavate and Dispose - remove contaminated soil and dispose in approved site.
Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming).
Remove Free Product - remove floating product from water table.
Pump and Treat Groundwater - generally employed to remove dissolved contaminants.
Enhanced Biodegradation - use of any available technology to promote bacterial decomposition of contaminants.
Replace Supply - provide alternative water supply to affected parties.
Treatment at Hookup - install water treatment devices at each dwelling or other place of use.
Vacuum Extract - use pumps or blowers to draw air through soil.
Vent Soil - bore holes in soil to allow volatilization of contaminants.
No Action Required - incident is minor, requiring no remedial action.

COMMENTS - Use this space to elaborate on any aspects of the incident.

SIGNATURE - Sign the form in the space provided.

DISTRIBUTION

If the form is completed by the tank owner or his agent, retain the last copy and forward the remaining copies intact to your local tank permitting agency for distribution.

1. Original - Local Tank Permitting Agency
2. State Water Resources Control Board, Division of Loans and Grants, Underground Storage Tank Program, P.O. Box 944212, Sacramento, CA 94244-2120
3. Regional Water Quality Control Board
4. County Board of Supervisors or designee to receive Proposition 65 notifications.
5. Owner/responsible party.



COUNTY OF SANTA BARBARA • HEALTH CARE SERVICES

315 CAMINO DEL REMEDIO • SANTA BARBARA, CALIFORNIA 93110 • (805) 681-5140

ABANDONED TANK INSPECTION
REPORT AND OFFICIAL NOTICE

PC# _____
EST# _____
DATE 2/16/90

LAWRENCE HART, M.D., F.A.C.P.M.
Director and Health Officer

ESTABLISHMENT NAME Orchard Service (S.P. R.R. owner)
SITE ADDRESS 399 Linden Ave CITY Carp. ZIP _____
CONTACT PERSON Elizabeth Gillis TITLE S.P. Engineer
TELEPHONE (916) 369-8971

You are hereby notified that an inspection of your abandoned hazardous substance underground storage tank(s) located at _____ was made on _____ by _____ of the Hazardous Materials Management Unit of the County of Santa Barbara, Department of Health Care Services. The condition found is noted below with the necessary response indicated.

Number of tanks removed 2
Type and capacity of tank(s) 1-250 gal steel & 1-1000 gal steel
Condition of tank(s) Good - slight corrosion, no holes
Approximate age of tank(s) ~40 yrs

- ☐ No holes in tank and no evidence of significant soil or groundwater contamination detected this date. Excavation may be backfilled.
- ☐ The conditions noted below must be reported and corrected in accordance with Chapters 6.5 and 6.7 of the California Health and Safety Code and Santa Barbara County Code.
- ☐ Hazardous substance/waste from the tank(s) is ponded in the excavation. Immediately take steps to remove the ponded hazardous liquid from the excavation. This liquid is a hazardous waste that must be properly transported, under manifest, by a licensed hazardous waste hauler to a licensed recycling or disposal facility. Submit copies of completed manifest forms and an Unauthorized Release Report (described below) to the Department of Health Services within 5 working days.
- ☒ Contaminated soil and/or groundwater is present in the excavation. Determining the extent and impact of this contamination and completing any required clean-up is the responsibility of the tank owner/operator. Within 5 working days, the tank owner/operator or his agent must submit a written Unauthorized Release Report to the Department of Health Services that includes all of the following information that is known at the time of filing the report:
- List of type, quantity and concentration of hazardous substance released.
 - The extent of the soil or groundwater or surface water contamination due to the release based on the results of all investigations completed at the time the report is submitted.
 - Method of clean-up implemented to date and proposed clean-up actions.
 - Method and location of disposal of the released hazardous substance and any contaminated soils or groundwater or surface water.

Subsequent mitigation actions will be discussed upon review of the submitted Report and consultation with other responsible agencies.

Important Notes:

- It is the responsibility of the tank owner/operator or his agent to maintain the site in a safe and secure manner.
- Any contaminated soil/liquid removed from the site must be handled, transported and disposed of or recycled as hazardous waste.
- Notify the local fire department immediately if a fire or explosion hazard is present.
- Notify the Regional Water Quality Control Board (549-3147) within 24 hours in the event of an unauthorized release.

RECEIVED BY _____
Phone # _____

SPECIALIST Bruce Hawley
(805) 964-8848 8:00 a.m.-5:00 p.m.



COUNTY OF SANTA BARBARA • HEALTH CARE SERVICES

315 CAMINO DEL REMEDIO • SANTA BARBARA, CALIFORNIA 93110 • (805) 964-8848

ABANDONED TANK INSPECTION
REPORT AND OFFICIAL NOTICE

PC# _____
EST# _____
DATE _____

LAWRENCE HART, M.D., F.A.C.P.M.
Director and Health Officer

ESTABLISHMENT NAME _____
SITE ADDRESS _____ CITY _____ ZIP _____
CONTACT PERSON _____ TITLE _____
TELEPHONE () _____

You are hereby notified that an inspection of your abandoned hazardous substance under-ground storage tank(s) located at _____ was made on _____ by _____ of the Hazardous Materials Management Unit of the County of Santa Barbara, Department of Health Care Services. The condition found is noted below with the necessary response indicated.

Number of tanks removed _____
Type and capacity of tank(s) _____
Condition of tank(s) _____
Approximate age of tank(s) _____

- ☐ No holes in tank and no evidence of significant soil or groundwater contamination detected this date. Excavation may be backfilled.
- ☐ The conditions noted below must be reported and corrected in accordance with Chapters 6.5 and 6.7 of the California Health and Safety Code and Santa Barbara County Code.
- ☐ Hazardous substance/waste from the tank(s) is ponded in the excavation. Immediately take steps to remove the ponded hazardous liquid from the excavation. This liquid is a hazardous waste that must be properly transported, under manifest, by a licensed hazardous waste hauler to a licensed recycling or disposal facility. Submit copies of completed manifest forms and an Unauthorized Release Report (described below) to the Department of Health Services within 5 working days.
- ☐ Contaminated soil and/or groundwater is present in the excavation. Determining the extent and impact of this contamination and completing any required clean-up is the responsibility of the tank owner/operator. Within 5 working days, the tank owner/operator or his agent must submit a written Unauthorized Release Report to the Department of Health Services that includes all of the following information that is known at the time of filing the report:
- a. List of type, quantity and concentration of hazardous substance released.
 - b. The extent of the soil or groundwater or surface water contamination due to the release based on the results of all investigations completed at the time the report is submitted.
 - c. Method of clean-up implemented to date and proposed clean-up actions.
 - d. Method and location of disposal of the released hazardous substance and any contaminated soils or groundwater or surface water.

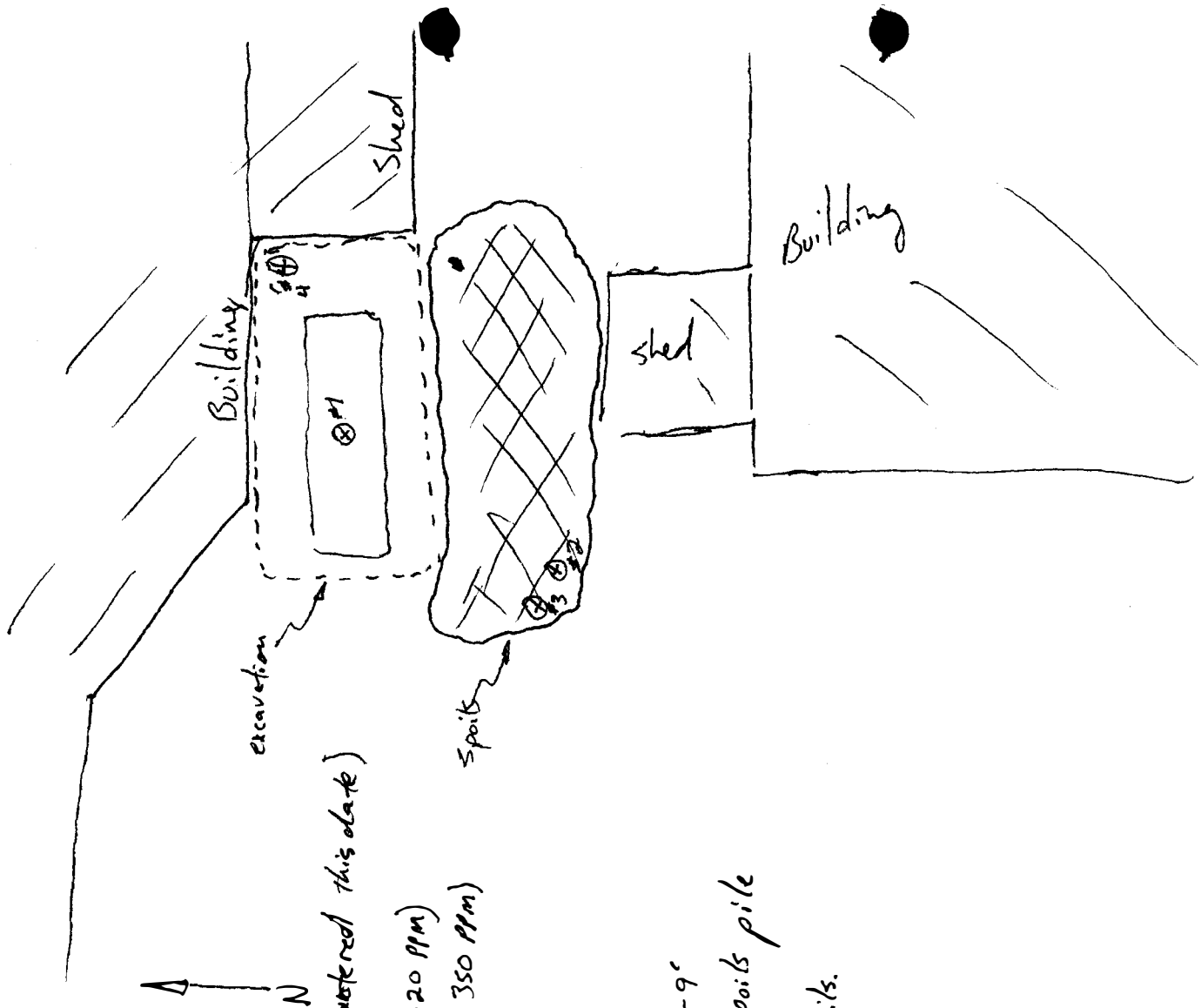
Subsequent mitigation actions will be discussed upon review of the submitted Report and consultation with other responsible agencies.

Important Notes:

- 1. It is the responsibility of the tank owner/operator or his agent to maintain the site in a safe and secure manner.
- 2. Any contaminated soil/liquid removed from the site must be handled, transported and disposed of or recycled as hazardous waste.
- 3. Notify the local fire department immediately if a fire or explosion hazard is present.
- 4. Notify the Regional Water Quality Control Board (549-3147) within 24 hours in the event of an unauthorized release.

RECEIVED BY _____
Phone # _____

SPECIALIST _____
(805) 964-8048 8:00 a.m.-5:00 p.m.



Groundwater est. 11-12' (not encountered this date)

Fill Material 0-5' (HNU 5-20 ppm)

Sandy Soil 5'-9' (HNU 250-350 ppm)

Clay 9'-?

Sample #1 Clay center Bottom of Pit - 9'

Sample #2 Upper fill material from spoils pile (black)

Sample #3 Sandy Material from spoils.

Sample #4 End wall excavation 4 ft.

All Samples 8015 / 8020

Sample #3 include 8240



**COUNTY OF SANTA BARBARA
PROTECTION SERVICES DIVISION
Hazardous Materials Unit**

2125 S. Centerpointe Pkwy. #333, Santa Maria, CA 93455 (805) 346-8477 FAX (805) 346-8485
4410 Cathedral Oaks Road, Santa Barbara, CA 93110 (805) 681-5500 FAX (805) 681-5553

FILE COPY

May 13, 1996

Mr. John Moe
Southern Pacific Railroad
One Market Plaza, Room 1007
San Francisco, CA 94105

Dear Mr. Moe:

RE: Southern Pacific Transportation Company Property
399 Linden Avenue, Carpinteria, California
LUFT Site #50119

This letter confirms the completion of site investigation and remedial action for the underground storage tanks formerly at the above described location. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including the current land use, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721 (e). (If a change in land use is proposed, the owner must promptly notify this agency.)

Please telephone Barbara Fontes at (805) 346-8285 if you have any questions regarding this matter.

Sincerely,

Steven C. Dastic
Hazardous Material Supervisor
SMU/LUFT Program

SDck
closure\50119.cir

Enclosure

pc: Janice Paulson, SWRCB
Barbara Fontes, Protection Services Division
Richard Evans, Protection Services Division
Ana Nathe, Industrial Compliance

In association with your local Fire Agency for Hazardous Materials Inspections, Spills & Underground Storage Tanks



COUNTY OF TA BARBARA
DEPARTMENT OF HEALTH SERVICES

Date May 13, 1996

From the desk of:

To:

Please See Me
Prepare Reply -- My Signature
Prepare Reply -- Your Signature
Necessary Action
Note and Return

Please Attend
Comment
Keep Me Informed
For Your Information
For Your File

Remarks:

Brett H Bowyer
R.G. # 5720

EXPIRATION DATE
5/31/96

GH-55 Rev. 4/79

LETTER OF TRANSMITTAL**Terranext**

11235 Knott Avenue, Suite B
Cypress, California 90630
(714) 890-9133
Fax (714) 890-1973

To: Ms. Barbara A. Fontes County of Santa Barbara 4410 Cathedral Oaks Road Santa Barbara, CA 93455

Date: 5-9-96	Terranext Project No.: 052-01913
Terranext Project Name: Former Orchard Services Site	
UST Case # 50119	

WE ARE SENDING YOU VIA:

☒ U.S. Mail ☐ Fed-X ☐ Hand-delivery ☐ Facsimile (# of pages: ___ including cover sheet)

ORIGINAL	COPIES	DATE	DESCRIPTION
1		5-9-96	Closure Request Letter
	1	4-10-96	Well Permits # 205, 206, and 207
1		4-11-96	Well Completion Reports # 459451, 459453, 459456

REMARKS: Please find enclosed a closure letter request submitted by Terranext, on behalf of the Southern Pacific Transportation Company, for your review. Attached also are a copy of the permits and well completion reports. Could you please send the Owners copy of the well completion report to the Terranext office referenced above, with the closure letter forwarded to John Moe, Southern Pacific Lines, One Market Plaza, San Francisco, CA # 94105. Thank You.

cc:

Terranext

By: Patrick A. Schanen

IF ENCLOSURES ARE NOT AS NOTED, PLEASE NOTIFY US AT ONCE.

received
APR 22 1996

WELL PERMIT APPLICATION

Permit No. **205**

Page 1 of 2 pages

TO: Environmental Health Division
Santa Barbara County Health Care Services

Date **4/10/96**

Name of Well Owner **Southern Pacific Transportation Company**
Mailing Address **One Market Plaza, San Francisco, CA 94105** **415-541-2557**
Street, P.O. City State Zip Code Telephone

Well Site Location: Vicinity Map Attached ☒ (Check)Assessor's Parcel No. **003-044-027** Street Address **399 Linden Ave, Carpinteria**Township _____ Range _____ Section _____ Rancho **Pueblo LAND**Name of Well Driller **APEX ENVIRONMENTAL DRILLING**Company Name **APEX ENVIRONMENTAL DRILLING**Business Address **15661 PRODUCER LN., Suite N, Huntington Beach, CA 92649** Date of WorkContractor's License No. **CS7-56117** Start **4/17/96** Finish **4/17/96**OTHER WATER SOURCE: Public ☐ Private ☐ None ☒

Permit Type (Check)	Well Use (Check)	Drilling Method (Check)
Construction ☐	Domestic ☐	Rotary ☐
Repair/Modification ☐	Agriculture ☐	Cable ☐
Destruction ☒	Cathodic ☐	Other ☒ Hollow Stem Auger
Inactivation ☐	Test ☒	

Proposed Depth **19** ft.Well Bore Diam **8** in.

Casing Information

Type: Steel ☐ PVC ☒ Other ☐Wall/Case **40** in.

Sealing Material (Check)

Neat Cement ☒ Clay ☐Diameter **2** in.Cement Grout ☐ Concrete ☐Annular Seal Depth **5** ft.

Additional Work Description:

For Department Use Only

Application Disposition:

Approved ☐Denied ☐

Comments

I hereby agree to comply with all regulations of the County of Santa Barbara pertaining to well construction, repair, modification, destruction and inactivation. The property owner, well driller, or agent will furnish County Health Care Services a complete well log upon completion of well construction.

Signed

Richard D. Allen
Applicant

4/11/96

No Fee LUFT Site # **50119**\$ Fee paid on **1/1**

Name

Barbara A. Fortes

S.B. ☐ Sol. ☐

Receipt No.

Date

April 11, 1996

S.M. ☐ Lom ☐

PAID BY:

WHEN SIGNED BY HEALTH CARE SERVICES, THIS APPLICATION IS A PERMIT. HEALTH OFFICER SHALL BE NOTIFIED PRIOR TO ALL SEALING OPERATIONS. NOTE: PERMIT EXPIRES ONE YEAR FROM DATE ISSUED.

WELL PERMIT APPLICATION

TO: Environmental Health Division
Santa Barbara County Health Care Services

Date 4/10/96

Name of Well Owner Southern Pacific Transportation Company
Mailing Address One Market Plaza, San Francisco, CA 94105 415-541-2557
Street, P.O. City State Zip Code Telephone

Well Site Location: Vicinity Map Attached ☒ (Check)
Assessor's Parcel No. 003-044-027 Street Address 399 Linden Ave, Carpinteria
Township _____ Range _____ Section _____ Rancho Pueblo Land
Name of Well Driller APEX ENVIRONMENTAL DRILLING
Company Name APEX ENVIRONMENTAL DRILLING CA 92649
Business Address 15661 PRODUCER LN., Suite N, Huntington Beach Date of Work
Contractor's License No. CS7-56117 Start 4/17/96 Finish 4/17/96

OTHER WATER SOURCE: Public ☐ Private ☐ None ☒

Permit Type (Check)	Well Use (Check)	Drilling Method (Check)
Construction ☐	Domestic ☐	Rotary ☐
Repair/Modification ☐	Agriculture ☐	Cable ☐
Destruction ☒	Cathodic ☐	Other ☒ <u>Hollow Stem Auger</u>
Inactivation ☐	Test ☒	

Proposed Depth 19 ft. Casing Information
Well Bore Diam 8 in.
Type: Steel ☐ PVC ☒ Other ☐
Sealing Material (Check) Wall/Cage 40 in.
Neat Cement ☒ Clay ☐ Diameter 2 in.
Cement Grout ☐ Concrete ☐ Annular Seal Depth 5 ft.

Additional Work Description:

For Department Use Only

Application Disposition:

Approved ☐

Denied ☐

Comments

I hereby agree to comply with all regulations of the County of Santa Barbara pertaining to well construction, repair, modification, destruction and inactivation. The property owner, well driller, or agent will furnish County Health Care Services a complete well log upon completion of well construction.

Signed

Richard D. Allen
Applicant

4/11/96

No Fee LIFT Site # 50119

\$ _____ Fee paid on _____

Receipt No. _____

PAID BY: _____

Name

Date

Barbara A. Fontes
April 11, 1996

S.B. ☐ Sol. ☐

S.M. ☐ Lom ☐

WHEN SIGNED BY HEALTH CARE SERVICES, THIS APPLICATION IS A PERMIT. HEALTH OFFICER SHALL BE NOTIFIED PRIOR TO ALL SEALING OPERATIONS. NOTE: PERMIT EXPIRES ONE YEAR FROM DATE ISSUED.

WELL PERMIT APPLICATION

TO: Environmental Health Division
Santa Barbara County Health Care Services

Date 4.10.96

Name of Well Owner Southern Pacific Transportation Company
Mailing Address One Market Plaza, San Francisco, CA 94105 415-541-2557
Street, P.O. City State Zip Code Telephone

Well Site Location: Vicinity Map Attached ☒ (Check)
Assessor's Parcel No. 003-044-027 Street Address 399 Linden Ave, Carpinteria
Township _____ Range _____ Section _____ Rancho Pueblo Land
Name of Well Driller APEX ENVIRONMENTAL DRILLING
Company Name APEX ENVIRONMENTAL DRILLING CA 92649
Business Address 15661 PRODUCER LN., Suite N, Huntington Beach Date of Work
Contractor's License No. CS7-56117 Start 4.17.96 Finish 4.17.96

OTHER WATER SOURCE: Public ☐ Private ☐ None ☒

Permit Type (Check)	Well Use (Check)	Drilling Method (Check)
Construction ☐	Domestic ☐	Rotary ☐
Repair/Modification ☐	Agriculture ☐	Cable ☐
Destruction ☒	Cathodic ☐	Other ☒ Hollow Stem Auger
Inactivation ☐	Test ☒	

Proposed Depth 19 ft. Casing Information

Well Bore Diam 8 in.
Type: Steel ☐ PVC ☒ Other ☐
Sealing Material (Check) Wall/Cage 40 in.
Neat Cement ☒ Clay ☐ Diameter 2 in.
Cement Grout ☐ Concrete ☐ Annular Seal Depth 5 ft.

Additional Work Description: _____

For Department Use Only

Application Disposition:

Approved ☐

Denied ☐

Comments

I hereby agree to comply with all regulations of the County of Santa Barbara pertaining to well construction, repair, modification, destruction and inactivation. The property owner, well driller, or agent will furnish County Health Care Services a complete well log upon completion of well construction.

Signed

Richard D. Allen
Applicant

4.11.96

No fee LIFT site # 50119

\$ _____ Fee paid on _____

Receipt No. _____

PAID BY: _____

Name

Date

Barbara A. Fontes

April 11, 1996

S.B. ☐ Sol. ☐

S.M. ☐ Lom ☐

WHEN SIGNED BY HEALTH CARE SERVICES, THIS APPLICATION IS A PERMIT. HEALTH OFFICER SHALL BE NOTIFIED PRIOR TO ALL SEALING OPERATIONS. NOTE: PERMIT EXPIRES ONE YEAR FROM DATE ISSUED.



COUNTY OF SANTA BARBARA
PROTECTION SERVICES DIVISION
Hazardous Materials Unit

2125 S. Centerpointe Pkwy. #333, Santa Maria, CA 93455 (805) 346-8477 FAX (805) 346-8485
4410 Cathedral Oaks Road, Santa Barbara, CA 93110 (805) 681-5500 FAX (805) 681-5553

March 4, 1996

Mr. John Moe
Southern Pacific Railroad
One Market Plaza, Room 1007
San Francisco, CA 94105

Dear Mr. Moe:

RE: Closure Request for Southern Pacific Transportation Company Property
399 Linden Avenue, Carpinteria, California
LUFT Site #50119

This letter confirms the completion of site investigation and remedial action at the above site. Providing the information submitted to the Santa Barbara County Protection Services Division, Hazardous Materials Unit was accurate and representative of existing conditions, it is our position that no further remedial action is required at this time. The following actions must be taken to gain site closure:

- ☐ The vapor extraction wells must be properly abandoned.
- ☐ Following the abandonment of the vapor extraction well(s) please submit a brief report summarizing the effectiveness of this work and the abandonment procedures. A final site closure letter will be sent.
- ☐ All drums must be properly labeled, manifested (or equiv.) and transported to an appropriate disposal facility. If the material is hazardous, this must be completed within 90 days.
- ☒ All groundwater monitoring wells must be properly abandoned. Prior to abandonment, permits must be obtained from the County and the City. The County will then notify the Regional Water Quality Control Board so that they can issue the site closure letter.
- ☐ An inspector from the County must be present to verify this site work. Please call at least forty-eight (48) hours in advance to schedule an appointment.

Mr. Moe
Page 2
March 4, 1996

- ☐ Open excavations and/or construction debris may pose a health hazard. This should be mitigated or at a minimum, public access should be restricted by a fence.
- ☐ Other site specific requirements.

If you have any questions or comments regarding this matter, please contact me at (805) 346-8285.

Very truly yours,

Barbara A. Fontes

Barbara A. Fontes
Hydrogeologist
SMU/LUFT Program

BF:ck
50119.pre

Enclosure

pc: Richard Aleshire, RWQCB
Richard Evans, Protection Services Division
Ana Nathe, Industrial Compliance

2/27/96

Staff Meeting to Discuss Site Status

Attendees: Barbara Fontes/Richard Evans/Kate Sulka

399 Linden 50119

RWQCB Denied closure in 7/95 meeting. They required more gw sampling. SPRR (RP) argued with their requirement, but finally resampled the gw. ND on all monitoring wells.

Therefore, BF is going to process site for closure; and will send letter to RP requiring closure of the monitoring wells and note to the RP that if they dump the clean drums of purge water, they need to notify LUFT in advance of doing so, so that there are no complaints from local people without LUFT being aware of the activity.

208 Salsipuedes (LUFT Site) - Quarantina and Salsipuedes (SMU Site)

Closure to LUFT aspect due to gw not indicating significant levels of hydrocarbons. PNA concerns do exist at the site, however. Property owner is SPRR. SPRR also owns property which is designated as the Quarantina and Salsipuedes SMU site, where PNA's and metal contamination exists. BF to write letters to RP, regarding closure of the LUFT site once the monitoring wells are either abandoned or ownership is transferred to SPRR (notification of transfer is required to be sent to LUFT).

BF also to write a letter to SPRR regarding their assuming responsibility of the monitoring wells for assessing their site.

403 DeLaVina 90060

Old gas station. RP has agreed to over excavate the soil contamination - ok to place a temporary monitoring well in the excavation rather than a permanent well. 2 gw samples of clean sample results, and LUFT will close the site.

200 S. Milpas 51661

Last HA report regarding the station demo indicated that the sample below the hoist was clean, but HA won't sign the report because they feel that there weren't sufficient samples taken (ie., sidewalls) to indicate that the contamination was removed. RE feels confident that the sample was indicative, because it was taken from the corner/bottom of the pit. Gw is at 6-8'bgs, and the quarterly reports indicate that there is no gw contamination. KS concerned that the gw has been tested for EDC/MTBE. Quarterly report data will be reviewed by BF during her review for closure. RE to forward information to BF for review.

800 Cacique 53220

Need to install monitoring well to determine if contamination has migrated, as it is expected to. Gw is shallow, 6-8'bgs.

22 Salsipuedes 50676

Mtg with RWQCB set up criteria for closure, which were

1 - documentation that site is within the El Estero

2 - resample groundwater with County staff on-site to witness

#1 is done. #2, sampling needs to occur. County did not accept sample. BF to follow up w/letter to RP. RE/KS to review prior to sending.

luft\sulka\notes\feb96



11235 Knott Avenue, Suite B Cypress, CA 90630

May 8, 1996

Terranext Project No. 052-01913-02

Ms. Barbara A. Fontes
LUFT Program
County of Santa Barbara
Protection Services Division,
Hazardous Materials Unit
4410 Cathedral Oaks Road
Santa Barbara, California 93455

VIA U.S. MAIL

**Re: Closure Request
Southern Pacific Transportation Company
Former Orchard Services Site Property
399 Linden Avenue
Carpinteria, California
Santa Barbara County - UST Case # 50119**

Dear Ms. Fontes:

Terranext, on behalf of Southern Pacific Transportation Company (SPTCo), is submitting this closure request for the SPTCo former Orchard Services property site, located at 399 Linden Avenue in Carpinteria, California.

In order to approve closing the Underground Storage Tank Case (Number 50119) for the subject site, groundwater monitoring well abandonment was requested by the County of Santa Barbara Protection Services Division, Hazardous Materials Unit (County) in a letter to SPTCo dated March 4, 1996. SPTCo contracted Terranext to conduct the well abandonment activities.

Prior to the commencement of field activities, Terranext obtained all appropriate well abandonment permits (Numbers 205, 206, 207) from the County, and pursuant to permit conditions, representatives of the County were notified at least 48 hours prior to initiating well abandonment activities. (Copies of well permits are attached.)

/u/pschan/report/carpinteria/carpinteria

Telephone: 714 890•9133

Facsimile: 714 890•1973

www.terrannext.com

Ms. Barbara A. Fontes
May 8, 1996
Page 2

The three groundwater monitoring wells on site were removed, in accordance with the State of California water well standards, using a limited access drilling rig equipped with a 10-inch (nominal outside diameter) hollow stem auger to over-drill each well to its construction depth of 19 feet. The PVC piping was then removed intact from all three wells and a neat cement slurry was tremmied through the stem from total depth to 5 feet below ground surface. Native soil fill was then used to backfill the boring to existing grade. (Copies of the monitoring well closure reports are attached.)

It is Terranext's understanding that the County will notify the Regional Water Quality Control Board, Central Coast Region, so that they can issue the site closure letter. Should you have any questions, please contact Patrick A. Schanen at (714) 890-9133

Sincerely,

TERRANEXT



Patrick Schanen
Project Manager



Brett H. Bowyer, R.G.
Manager, Southern California Operations

PAS:ra

Attachments

cc: Mr. John Moe, SPTCo

Terranext

SANTA BARBARA COUNTY
HAZARDOUS MATERIAL SMU/LUFT PROGRAM

CONTACT REPORT

DATE: 3/21/96 TIME: 4:15

NAME OF PERSON: John Moe TITLE: _____

COMPANY OR AGENCY: Southern Pacific Transportation

SITE: SMU ☐ LUFT ☒ ADDRESS: 399 Linden

PHONE: (415) 541-2557 TYPE OF CONTACT: OFFICE ☐ PHONE ☒ FIELD ☐ OTHER: _____

SUBJECT: _____

SUMMARY OF DISCUSSION: _____

A phone call was placed to Mr. Moe to discuss the well abandonment. He stated that he had received the letter stating the site would be closed once the monitoring wells were abandoned. He said that he had started the scheduling of the abandonment today and would let SBCEP know as soon as possible.

D. Evans

REPORTED BY: Richard Evans

close →

Terranext

11 235 Knott Avenue, Suite B Cypress, CA 90630

February 20, 1996

Terranext Project No. 052-01913-02

Mr. John Moe
Southern Pacific Environmental Systems
Southern Pacific Transportation Company
One Market Plaza
San Francisco, California 94105

VIA US MAIL

**Re: Report for Groundwater Monitoring at the Former Orchard Services Site
Southern Pacific Transportation Company
399 Linden Avenue
Carpenteria, California
Santa Barbara County UST Case No. 50119**

This letter report has been prepared by Terranext (formerly Industrial Compliance) for Southern Pacific Transportation Company (SPTCo) to present the results of groundwater monitoring activities at the former Orchard Services Site (Site), located at 399 Linden Avenue in Carpenteria, California.

In order to approve closing the Underground Storage Tank (UST) Case (No. 50119) for the Site, a third and final round of groundwater monitoring was requested by the Santa Barbara County Environmental Health Department (County) and the California Regional Water Quality Control Board, Central Coast Region (RWQCB). A description of previous groundwater monitoring efforts at the Site is provided in the following section.

BACKGROUND

The Site is located in the City of Carpenteria on SPTCo property adjacent to the south side of the main railroad line, west of Linden Avenue. A site map is shown on Figure 1. The Site was formerly occupied by Orchard Services. In response to a request from the County, in February 1990, Southern Pacific Environmental Services (SPEvS) removed two fuel USTs from the Site. Petroleum hydrocarbons detected in confirmation soil samples beneath the USTs indicated that further investigation was required¹.

During 1990 and 1991, SPEvS performed soil remediation activities at the Site consisting of two stages of excavation and subsequent soil sample analysis. Laboratory analysis of nine

¹Letter from Santa Barbara County Health Care Services to Southern Pacific Environmental Systems, dated March 27, 1990.

/u/jkahle/report/01913.gwrpt

Telephone: 714 890-9133

Facsimile: 714 890-1973

www.terranext.com

Mr. John Moe
February 20, 1996
Page 2

confirmation soil samples taken after the final excavation indicated that the impacted soil had been removed and that no additional excavation was necessary². The confirmation soil samples were analyzed for total petroleum hydrocarbons (TPH) in accordance with EPA Method 8015 - modified for diesel, and for benzene, toluene, ethyl benzene and xylenes (BTEX) in accordance with EPA Method 8240. TPH was not detected above the practical quantitation limit (PQL) of 1 milligram per kilogram (mg/kg) in any of the nine confirmation samples. BTEX compounds were not detected above PQLs of 0.005 mg/kg in seven samples; traces of toluene and xylenes (<0.020 mg/kg) were detected in two of the samples.

During the investigation, three 2-inch inside diameter groundwater monitoring wells were installed to test groundwater for the presence of TPH near the former UST. The wells were sampled twice (December 11, 1991 and March 31, 1992) and analyzed for BTEX and TPH as gasoline, diesel, and stoddard solvent in accordance with EPA Methods 8240 and 8015 - modified respectively. TPH was not detected above the PQL of 50 micrograms per liter ($\mu\text{g/l}$) and BTEX compounds were not detected above the PQLs of 0.5 $\mu\text{g/l}$ in any of the samples during either sampling event^{3,4,5}.

In a letter to the County dated April 28, 1992, SPEvS recommended that the UST Site could be closed based on the soil and groundwater sampling results. The County agreed to close the Site and requested concurrence on site closure from the RWQCB. The RWQCB subsequently requested a third round of groundwater sampling and testing for BTEX compounds using EPA Method 602. A summary of these activities is provided as follows.

GROUNDWATER MONITORING

Representatives of the RWQCB and the County were notified of Terranext's intent to sample the wells on January 9, 1996. Groundwater sampling activities were conducted on the three existing monitoring wells at the Site on January 11, 1996. A representative of the County

²SP Environmental Systems, Inc., July 15, 1991, Additional Site Investigation and Remediation Report, Southern Pacific Transportation Company, Orchard Services.

³Industrial Compliance, January 8, 1992, Fourth Quarter 1991 Groundwater Sampling Results, 399 Linden Avenue, Carpinteria, CA.

⁴Industrial Compliance, April 28, 1992, First Quarter 1992 Groundwater Sampling Results and Soil Disposal Report, 399 Linden Avenue, Carpinteria, CA.

⁵Letter from Industrial Compliance regarding Groundwater Sampling Analytical Results, to Environmental Health Services Department, Santa Barbara County, dated March 8, 1993.

Terranext

Mr. John Moe
February 20, 1996
Page 3

visited the Site during the sampling activities. Water levels in all three wells were measured to the nearest 0.01 foot prior to purging. At least three well volumes of water were evacuated from each of the wells by bailing immediately prior to collecting samples. Electrical conductivity, pH, and temperature were monitored in purge water during evacuation procedures. Well purge logs are provided as Attachment 1.

After water levels in the wells recovered to at least 80% of the pre-purged levels, the samples were collected using disposable plastic bailers. One field blank sample and one duplicate sample were collected to meet quality assurance/quality control requirements (QA/QC). The blank sample was collected by placing distilled water into a clean disposable bailer. The water was then transferred to appropriate pre-cleaned bottles as supplied by the analytical laboratory.

The groundwater samples were placed in appropriate, clean containers as supplied by the selected laboratory. All of the bottles were pre-treated with the appropriate preservative by the laboratory, as required by the selected analytical method. The bottles were labeled, placed in sealable plastic bags and chilled on-site in a cooler. Chain-of-Custody forms were completed at the time of sampling and accompanied the samples to the laboratory. Chain-of-custody documents and laboratory reports are provided as Attachment 2.

Groundwater samples were analyzed in accordance with EPA Method 602 for BTEX. In addition, a field blank and field duplicate were collected and analyzed for the target constituents as part of the groundwater sampling QA/QC procedures.

The laboratory reports were reviewed and validated by Terranext personnel. No data inconsistencies were observed during the data validation effort.

The purge water generated during sampling activities was stored in one 55-gallon capacity drum, for proper disposal following the acquisition of the laboratory results. The results of the third round of groundwater sampling are presented as follows.

RESULTS

Depth to groundwater was measured between 7.95 to 9.27 feet below the top of the well casing reference points on January 11, 1996. Groundwater flow direction was measured as southwest at a gradient of 0.008. Depth to groundwater and groundwater elevation contours are shown on Figure 1.

Terranext

Mr. John Moe
February 20, 1996
Page 4

BTEX was not detected at concentrations greater than the PQL of 0.40 $\mu\text{g/l}$ in any of three samples collected from the groundwater wells.

CONCLUSIONS

No evidence of input to groundwater has been observed due to the former USTs at the Site. Based on the impact results indicating the lack of detectable petroleum hydrocarbons in groundwater nearby and downgradient of the former UST, Terranext recommends that the UST case be closed by the County and the three monitoring wells be properly destroyed.

CLOSING

Terranext appreciates the opportunity to provide services to SPTCo for the aforementioned work. Should you have any questions, please do not hesitate to contact either of the undersigned.

Prepared By:  Date: 2-20-96
Gary J. Halbert, R.G., C.E.G.
Project Manager

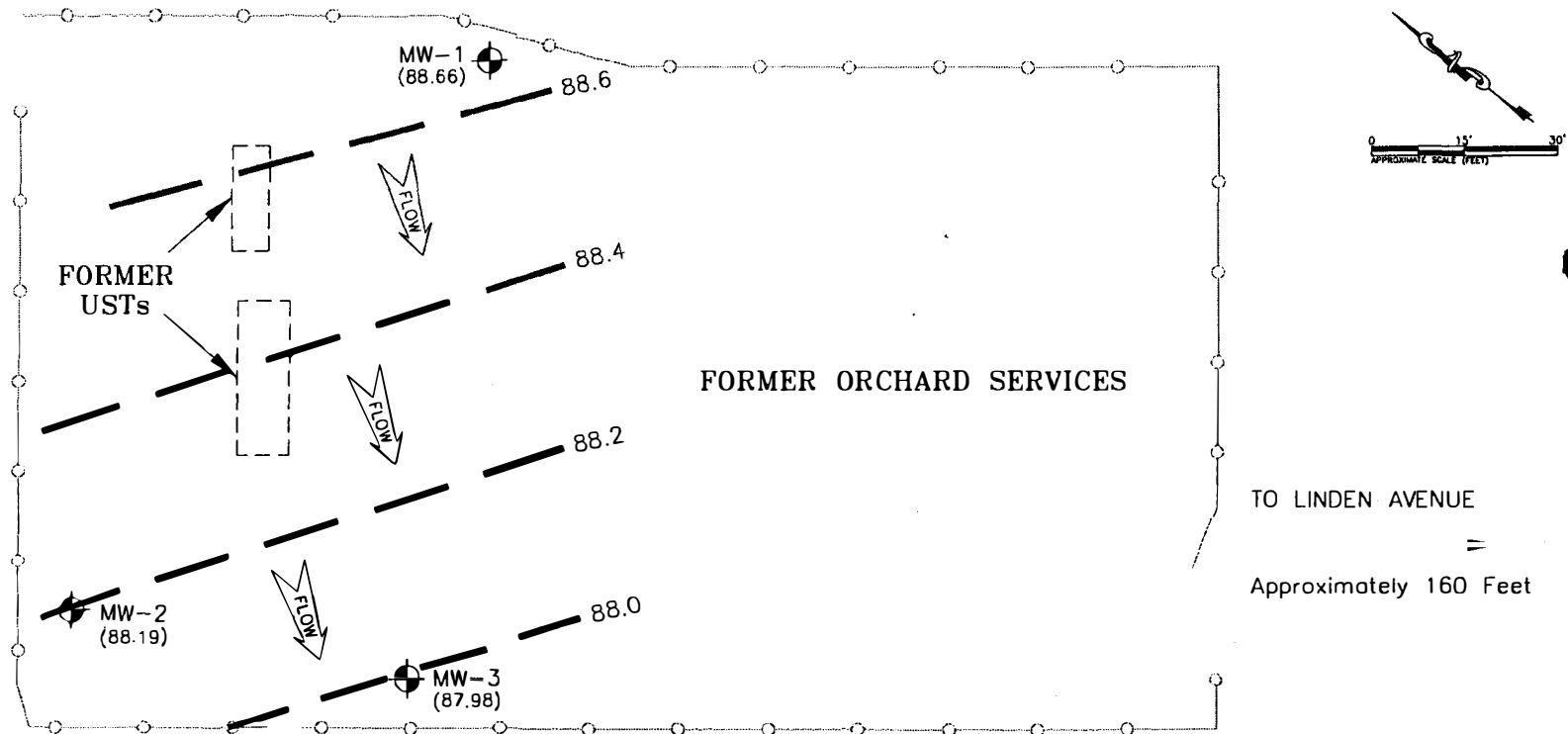
Reviewed:  Date: 2-21-96
Brett H. Bowyer, R.G.
Manager, Southern California Operations

GJH:da

Attachments Figure 1
Well Purge Logs
Laboratory Reports

cc: Santa Barbara County Fire Department
Hazardous Material/Richard Evans
4410 Cathedral Oaks
Santa Barbara, CA 93110

Terranext



LEGEND

- MW-2 Monitoring Well
(88.19) Groundwater Elevation
1-11-96
- Groundwater Contour
Line
- Denotes Direction of
Groundwater Flow
- Railroad Tracks
- Fence

PROJ.# 05201913-02 PAGE#

SCALE: AS SHOWN

FILE NO. FIG-1.DWG

DATE: 1/29/96

DRAWN BY: T.T.

DESIGNED BY:

APPROVED BY: G.H.



Well	Top of Casing Surveyed Elevation (ft msl)	Depth to Water (ft msl)	Calculated Groundwater Elevation (ft msl)
MW-1	97.93	9.27	88.66
MW-2	96.14	7.95	88.19
MW-3	96.56	8.58	87.98

FIGURE 1
SITE MAP
WITH GROUNDWATER GRADIENT
SOUTHERN PACIFIC TRANSPORTATION COMPANY
399 LINDEN AVENUE
CARPINTERIA, CALIFORNIA

PURGE CHARACTERIZATION AND SAMPLE LOG

Project Number: 052-01913 Project Name: Carpenteria Date: 1-11-96Well Number: MW-1 Sampler: Scott Terranova Weather: cool/clear

Military Time 0744	0746	0750	0755	0759	0803	0807							
Gallons Purged	1	1	1	1	1	1							
Purge Rate													
pH	8.50	8.06	7.82	7.69	7.61	7.58							
Conductivity	846	1085	1114	1138	1117	1121							
Temperature (F)	58.3	58.6	58.9	59.3	58.8	59.3							
Salinity (0/00)													
Turbidity	10.51	49.9	14.65	8.60	5.13	4.13							
Color	clear	sl cloudy	clear	clear	clear	clear							
Water Level Casing	9.27					9.64							
Calibration	pH: 7						S.C.:						

Sample #	Quantity	Volume	Type	Preserv.	Analysis	Lab	Sample Equip.	Purge Equip.	Field Comments
052-3270	3	40 mL	H ₂ O	HCl	BTEX		disposable bailer	disposable bailer	Sampled at 0815
052-3271	3	40 mL	H ₂ O	HCl	BTEX		disposable bailer	disposable bailer	Field Duplicate 0815
Cleaning:									
Comments:	T.D. 18.74 Trip Blank 052-3272								

Sampler's Signature



PURGE CHARACTERIZATION AND SAMPLE LOG

Project Number: 052-01913 Project Name: Carpenteria Date: 1-11-96Well Number: MW-2 Sampler: Scott Terranova Weather: warm/clear

Military Time 0846	0851	0857	0903	0909	0913	0917	0921						
Gallons Purged	1	1	1	1	1	1	1						
Purge Rate													
pH	7.29	7.30	7.24	7.19	7.18	7.17	7.15						
Conductivity	834	866	946	937	948	925	971						
Temperature (F)	56.7	59.9	60.1	60.5	61.0	61.3	60.9						
Salinity (0/00)													
Turbidity	33.3	58.5	27.6	18.66	10.15	6.51	4.89						
Co or	sl cloudy	sl cloudy	sl cloudy	clear	clear	clear	clear						
Water Level Casing	7.95					8.68							
Calibration	pH: 7						S.C.:						

Sample #	Quantity	Volume	Type	Preserv.	Analysis	Lab	Sample Equip.	Purge Equip.	Field Comments
052-3273	3	40 mL	H ₂ O	HCl	BTEX		disposable bailer	disposable bailer	Sampled at 0930
Cleaning:									
Comments:	T.D. 17.62								

Sampler's Signature



PURGE CHARACTERIZATION AND SAMPLE LOG

Project Number: 052-01913 Project Name: Carpenteria Date: 1-11-96Well Number: MW-3 Sampler: Scott Terranova Weather: warm/clear

Military Time 0959	1002	1005	1008	1013	1017	1021	1026						
Gallons Purged	1	1	1	1	1	1	1						
Purge Rate													
pH	6.97	6.92	6.87	6.85	6.86	6.83	6.85						
Conductivity	1186	1306	1334	1339	1352	1349	1355						
Temperature (F)	62.1	63.8	63.6	63.4	63.6	63.8	63.9						
Salinity (0/00)													
Turbidity	30.0	24.6	18.69	12.13	8.79	5.25	4.91						
Color	sl cloudy	sl cloudy	sl cloudy	clear	clear	clear	clear						
Water Level Casing	8.58						8.82						
Calibration	pH: 7						S.C.:						

Sample #	Quantity	Volume	Type	Preserv.	Analysis	Lab	Sample Equip.	Purge Equip.	Field Comments
052-3274	3	40 mL	H ₂ O	HCl	BTEX		disposable bailer	disposable bailer	Sampled at 1035
052-3275	3	40 mL	H ₂ O	HCl	BTEX		disposable bailer	disposable bailer	Field Blank at 1045
Cleaning:									
Comments:	T.D. 19.60								

Sampler's Signature



CHAIN - OF - CUSTODY RECORD

Client
Terranex+

Project Name
Carpinteria

Project Address
Carpinteria

Date
1-11-96

Client Reference #
P.O.# 30342

Turn Around Requested:

☐ Immediate Attention

☐ Rush 24-48 Hours

☐ Rush 48-96 Hours

☒ Normal

☐ Mobile Lab

Analysis Requested
All analyses and deliverables must be identified
(see section 4.8 & 4.9 on reverse)

Page 1 of 1

Lab Use Only

Lab Job # 12955

C.O. # _____

C.O. # _____

C.O. # _____

C.O. # _____

Sample Condition Upon Receipt:

Chilled ☒ yes ☐ no

Sealed ☒ yes ☐ no

Project Contact (please print)
Gary Halbert

Sample ID	Sample Location	Date	Time	Physical State: Solid (S), Liquid (L), Vapor (V)	Analysis Requested	Number of Containers	Container/Comments	Lab Sample Number
052-3270		1-11-96	0815	L	X	3		<u>12955</u>
3271		"	0815	"	X	3		-2
3272						2	* Hold Sample	-3
3273		1-11-96	0930	"	X	3		-4
3274		"	1035	"	X	3		-5
3275		"	1045	"	X	3		-6

① Relinquished by (signature)*

SH

Company
TerranexT

③ Relinquished by (signature)*

Company

② Received by (signature)

Company

④ Received by Laboratory (signature)

Seah Dino

Laboratory Name

TMA SA

Date

17

Total Number of Containers

Time

Date
1/12/96

Time
10:05

**TERRA
TECH
LABS**

Corporate Office
1920 E. Deere Ave.
Santa Ana, CA 92705
Tel 714.757.7022 800.377.2322
Fax 714.757.7274

Arizona Office
3902 E. University Drive, Suite 4
Phoenix, Arizona 85034
Tel 602.437.9367 Fax 602.437.9362

Special Instructions

Please Fax Results "ASAP" 714) 890-1973

*See Terms And Conditions (section 2) on reverse before signing

1920 E. Deere Avenue
Santa Ana, CA 92705
(714) 757-7022 Fax: 757-7274
Formerly Terra Tech Labs

LABORATORY REPORT

Client: Terranext
Client Address: 11235 Knott Avenue, Suite B
Cypress, California 90630

Report Date: 1/17/96
Lab P.N.: L2955
Client P.N.: 30342
Lab Cert. #: 1155

Contact: Gary Halbert

Project Name: Carpinteria
Project Address: Carpinteria, CA

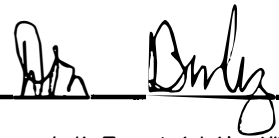
Date Sampled: 1/11/96
Date Received: 1/12/96
Date Analyzed: 1/12/96-1/13/96
Physical State: Liquid

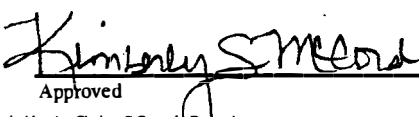
Quality Assurance/Quality Control Summary

<u>Parameter (Method)</u>	<u>QC Type</u>	<u>MS Percent Recovery</u>	<u>MSD Percent Recovery</u>	<u>Acceptable Range</u>	<u>Relative Percent Difference</u>	<u>Acceptable Range</u>
Benzene (EPA 8020)	M	99	103	74-121	4	0-10
Toluene (EPA 8020)	M	99	103	72-121	4	0-16
Ethylbenzene (EPA 8020)	M	98	104	72-117	6	0-14
Total Xylenes (EPA 8020)	M	102	109	66-124	7	0-14

M = Matrix Spike / Matrix Spike Duplicate

L = Laboratory Control Sample Spike / Spike Duplicate


Reviewed


Approved

The samples were received by Thermo Analytical in a chilled state, intact and accompanied by the Chain-of-Custody Record.

Acceptance of samples by Thermo Analytical is not an indication of condition upon receipt.

Laboratory Results apply only to the sample matrix analyzed and may not apply to an apparently identical or similar sample.

The Laboratory Report is the property of the client to whom it is addressed.

The Laboratory Results are only a portion of the Laboratory Report.

LABORATORY RESULTS

Client: Terranext
 Client Address: 11235 Knott Avenue, Suite B
 Cypress, California 90630

Report Date: 1/17/96
 Lab P.N.: L2955
 Client P.N.: 30342

Project Name: Carpinteria
 Project Address: Carpinteria, CA

Date Sampled: 1/11/96
 Date Analyzed: 1/12/96-1/13/96
 Physical State: Liquid

Sample ID	Benzene EPA 8020 <u>µg/l</u>	Toluene EPA 8020 <u>µg/l</u>	Ethylbenzene EPA 8020 <u>µg/l</u>	Xylenes, Total EPA 8020 <u>µg/l</u>
052-3270	ND	ND	ND	ND
052-3271	ND	ND	ND	ND
052-3273	ND	ND	ND	ND
052-3274	ND	ND	ND	ND
052-3275	ND	ND	ND	ND
Quantitation Limit <u>µg/l</u>				
	0.40	0.40	0.40	0.40

ND; Not Detected
 The Laboratory Results are only a portion of the Laboratory Report.

TMA
Thermo Analytical

HAZARDOUS MATERIAL SMU/LUFT PROGRAM

CONTACT REPORT

DATE: 11/2/95 TIME: 10:00NAME OF PERSON: John Moe TITLE: _____COMPANY OR AGENCY: Southern PacificSITE: SMU ☐ LUFT ☒ ADDRESS: 399 Linden Ave, Carpinteria CAPHONE: 415 1541-2557 TYPE OF CONTACT: OFFICE ☐ PHONE ☒ FIELD ☐ OTHER: _____SUBJECT: Status of siteSUMMARY OF DISCUSSION: 11/2/95 ~ 10:00

A phone call was placed to Mr. Moe concerning the status of the site. LNTC Booth answering machine.

Return call from Mr. Moe. He stated that according to understanding the site required no further action. He stated he would mail Street Information concerning the site.

Informed him of the state clean-up fund. Have them Diana Romero phone #

REPORTED BY: Richard Evans

Meeting with RWQCB
07/20/95

Attendees: RA Richard Aleshire
RE Richard Evans
BF Barbara Fontes
KS Kate Sulka KS

399 Linden - Orchard Services

1 more sampling event of 3 wells and if non-detect, then close the site

Agriturf - 90011 130 Garden Street

RP requested closure

RE looking at remediation

MW 2 - varnish smell

VOC analysis required this last quarter - results not in yet

RA required mineral analysis

RE to write letter to RP saying minerals test to be done to determine cleanup levels

RA No remediation done to date - they need to remediate soil and groundwater (even if groundwater brackish)

RE Wants everything to be consistent in the area

RA/KS Agriturf is a data point to be included in Garden Street extension data

RA Prior to determining anything, need to get VOC/Minerals data

KS Wait for VOC/Minerals data to decide

RA Need this as this is an industrial area and someone else prior to this RP may have used solvents, so need this data to determine cleanup levels

DEWAR - 575 Guadalupe 51214

BF explained 1 well hot, no other MW's hot

RA Need more monitoring

BF RP wants meeting - they think they've done enough

RA Don't need a meeting, have Dewar talk with me. Levels are 25 x's over MCL's (25 ppm in groundwater)
Lab needs to tighten up on their PQL's as the Benzene DL was .005 ppm for Benzene, which is too high

BF Will talk with RP and let them know to stick with EHS's memo or call RWQCB to confirm what EHS has already required

RA At very least, may reduce sampling to semi-annually

BF Will have RP call RA, after he puts together a closure request

330 State - Work Inc.

BF Found solvents - Phillips is paying for UST remediation - Excavating awaiting final report - solvents not Phillips issue -

KS Solvents may be attributable to Coit Cleaners -

BF Yes, possibly - will determine this once get data that was just sampled for - downgradient was a wing painting facility in the past which may have affected this site (ie they are surrounded by PCE sources)

BF Will refer solvents to RWQCB

Back to Agriturf

RE Showed RA the letter from Perry Russell - RA copied it for reference with closure letter request

Al's Cleaners

RA hasn't reviewed report yet

BF Hopefully this will be a joint site

RA Will review it soon

127 W. Canon Perdido - Opportunity Shop

RE Has required further assessment - RP has refused

BF GTE has solvents in their westerly well- gradient is SE

RE Gradient appears to change

BF Wells too close - GTE gradient is SE

RA Gradient usually parallel State Street

RE Is asking how far do they assess? and is there a potential he's pulling in someone else's problem?

RA/KS/BF

Yes - Radio Square and/or an old dry cleaner (across Canon Perdido) etc

RA Is he asking for closure?

RE No just why do they need to assess more?

RA There's something to that. Gasoline levels are low - TPH 510 ppb B 1.9 ppb. Keep site on post closure monit and ask RP to justify closure.

Opportunity Shop

RA PCE levels are high and may be from on-site

KS Need to justify with a historical survey, that the PCE is not from the site and or it's current previous uses on-site.

OFFICE MEMORANDUM

To Richard Evans Date Jan 26, 1995
From Banham Fontes In re: Closure Request
UFT Site # 50119, 399 Linden

Please have them do another round of sampling to include: TPH, BTEX and minerals.

This would satisfy all RWQCB concerns and we can close if groundwater is still non-detect.

The highlighten sections of the closure summary is for data I couldn't find.

When all is completed give to Carey so that ~~she~~ she can update the closure summary and route this to Steve for his signature.

Note Wells need to be abandoned prior to issuance of closure letter.

Fontes

SANTA BARBARA COUNTY

HAZARDOUS MATERIAL SMU/LUFT PROGRAM

CONTACT REPORT

DATE: 2/18/94 TIME: 12:15

NAME OF PERSON: RICK BATTLE TITLE: _____

COMPANY OR AGENCY: _____

TE: SMU ☐ LUFT ☒ ADDRESS: 399 LINDEN, CARPINTERIA

PHONE: () TYPE OF CONTACT: OFFICE ☐ PHONE ☒ FIELD ☐ OTHER: _____

SUBJECT: _____

SUMMARY OF DISCUSSION:

Mr. Battle called requesting information on the status of the site. He stated that he was working for one of the property owners. He was told that the DWA CB did not concur with closure for the site. He was told the site would continue to be required to do quarterly monitoring.

REPORTED BY:

Richard E. Jones

SANTA BARBARA COUNTY

HAZARDOUS MATERIAL SMU/LUFT PROGRAM

CONTACT REPORT

DATE 2/18/94 TIME 12:15

NAME OF PERSON: RICK BATTLE TITLE: _____

COMPANY OR AGENCY: _____

TE: SMU ☐ LUFT ☒ ADDRESS: 399 LINDEN, CARPINTERIA

PHONE: () TYPE OF CONTACT: OFFICE ☐ PHONE ☒ FIELD ☐ OTHER: _____

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SUMMARY OF DISCUSSION:

Mr. Battle called requesting information on the status of the site. He stated that he was working for one of the property owners. He was told that the DWA CB did not concur with closure for the site. He was told the site would continue to be required to do quarterly monitoring.

REPORTED BY:

Richard Evans

PHONE MESSAGE

TO: Richard

FROM: Todd Hook

DATE: 4-1-43 TIME: 4:50 AM ☐ PM ☐

AREA CODE: (213)

NO. 780-6592

Industrial Compliance

MESSAGE

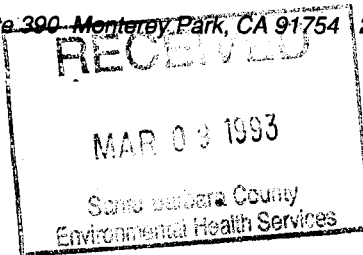
SIGNED [Signature]

☐ PHONED ☐ CALL BACK ☐ RETURNED CALL ☐ WANTS TO SEE YOU ☐ WILL CALL AGAIN ☐ WAS IN ☐ URGENT ☐



Rich

1200 Corporate Center Drive, Suite 390, Monterey Park, CA 91754 213/780-6590 FAX 213/780-6589



March 8, 1993

IC Project No. 052-01913

Mr. John Moore
LUFT Program
Environmental Health Services Department
County of Santa Barbara
120 Cremona Drive, Suite C
Goleta, California 93117

**Re: Groundwater Sampling Analytical Results
Southern Pacific Transportation Company
Orchard Services Parcel - 399 Linden Avenue
Carpinteria, California
County UST Site No. 50119**

Dear Mr. Moore:

Industrial Compliance (IC), on behalf of Southern Pacific Transportation Company (SPTCo), is submitting the enclosed laboratory analytical reports for groundwater samples collected at the subject site during the fourth quarter of 1991 and the first quarter of 1992. These results are provided in response to questions and comments of the Regional Water Quality Control Board (RWQCB), Central Coast Region, that were transmitted to the Santa Barbara County Environmental Health Services Department (County) in a letter dated December 14, 1992. RWQCB concurrence to close the subject site was requested by the Mr. Richard Evans of the County in a letter dated October 28, 1992.

For these two groundwater sampling events, the County had requested analysis of only total petroleum hydrocarbons as gasoline, diesel, and stoddard solvent; analysis for benzene, toluene, ethylbenzene, and xylenes (BTEX) was not required. Therefore, IC requested analysis of the groundwater samples only for total petroleum hydrocarbons by CAL DHS Draft TPH (modified) and EPA Method 8260, which entails use of a gas chromatograph/mass spectrometer. The laboratory used for analysis of these groundwater samples (Coast to Coast Analytical Services) routinely archives on computer disk the sample chromatograms and mass spectrometer readouts. Pursuant to a request from IC, the laboratory determined the BTEX concentrations in the groundwater samples based on the archived gas chromatograph and mass spectrometer data. As indicated in the enclosed reports, BTEX were not detected at concentrations above the laboratory reporting limit of 0.5 µg/l. These results are consistent with those from previous groundwater samples.

c:\tah\052-1913\sbcehsd2.ltr

Dedicated to solving your environmental problems.

A Subsidiary of SP Environmental Systems, Inc.



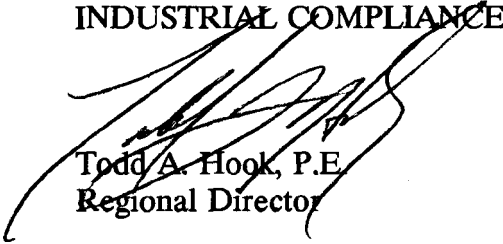
Mr. John Moore
March 8, 1993
Page 2

In a letter dated March 2, 1993, IC respectfully requested reconsideration of the site for closure without additional groundwater monitoring. SPTCo has verified completion of the corrective action through verification monitoring agreed to by the County, as required under §2727 of Title 23, California Code of Regulations. Confirmation soil sampling of the excavations indicates that the affected soil has been removed. In addition, petroleum constituents have not been detected in any representative samples of groundwater collected from the monitoring wells installed by IC at the site.

If there are any questions or comments regarding this matter, please contact me at your convenience.

Sincerely,

INDUSTRIAL COMPLIANCE



Todd A. Hook, P.E.
Regional Director

TAH

Enclosure

cc: J. C. Moe, SPTCo
D. W. Long, Esq., SPTCo





CAJON TERRA
Industrial Compliance

1200 Corporate Center Drive, Suite 390 Monterey Park, CA 91754 213/780-6590 FAX 213/780-6589

March 8, 1993

IC Project No. 052-01913

Mr. John Moore
LUFT Program
Environmental Health Services Department
County of Santa Barbara
120 Cremona Drive, Suite C
Goleta, California 93117

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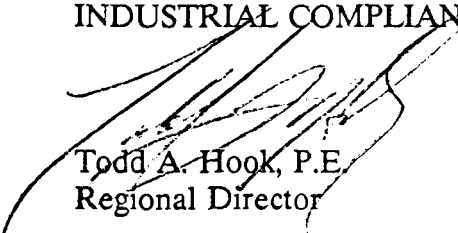
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TAH

Enclosure

cc: J. C. Moe, SPTCo
D. W. Long, Esq., SPTCo





Air, Water & Hazardous Waste Sampling, Analysis & Consultation
General Hazardous Waste, Chemistry, Bacteriology & Biology Laboratories
San Luis Obispo, CA • Benicia, CA • Camarillo, CA • San Jose, CA • Goleta, CA
Anaheim, CA • Tempe, AZ • Valparaiso, IN • Westbrook, ME • Indianapolis, IN

NorCal Division (San Jose Laboratory)
2059 Junction Ave.

San Jose, CA 95131
(408) 955-9077

CLIENT: Todd Hook
S.P. Environmental Systems
9719 Lincoln Village Suite 310
Sacramento, CA 95827

Lab Number : GE-2588-1
Project : 05149 Carpinteria CA
Analyzed : 12/16/91
Analyzed by: MM
Method : As Listed

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED		
13174 Well#2. Groundwater	Groundwater	Mark Barros	12/11/91	12/11/91	
CONSTITUENT	(CAS RN)	*PQL µg/L	RESULT µg/L	NOTE	
PURGEABLE AROMATICS (BTX)				1,2	
Benzene	(71432)	0.5	ND		
Toluene	(108883)	0.5	ND		
Ethylbenzene	(100411)	0.5	ND		
Xylenes		0.5	ND		
Percent Surrogate Recovery			100.		

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) ANALYZED by CAL DHS DRAFT TPH (modified) and EPA 8260 (GC/MS)

(2) EXTRACTED by EPA 5030 (purge-and-trap)

03/02/93
MSD1
MC/mcc

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.


Marissa Coronel
Laboratory Director



Air, Water & Hazardous Waste Sampling, Analysis & Consultation
Certified Hazardous Waste, Chemistry, Bacteriology & Bioassay Laboratories

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Anaheim, CA • Tempe, AZ • Valparaiso, IN • Westbrook, ME • Indianapolis, IN

NorCal Division (San Jose Laboratory)
2059 Junction Ave.

San Jose, CA 95131
(408) 955-9077

CLIENT: Todd Hook
S.P. Environmental Systems
9719 Lincoln Village Suite 310
Sacramento, CA 95827

Lab Number : GE-2588-2
Project : 05149 Carpinteria CA
Analyzed : 12/16/91
Analyzed by: MM
Method : As Listed

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED		
13178 Well#1. Groundwater	Groundwater	Mark Barros	12/11/91	12/11/91	
CONSTITUENT	(CAS RN)	*PQL µg/L	RESULT µg/L	NOTE	
PURGEABLE AROMATICS (BTEX)				1,2	
Benzene	(71432)	0.5	ND		
Toluene	(108883)	0.5	ND		
Ethylbenzene	(100411)	0.5	ND		
Xylenes		0.5	ND		
Percent Surrogate Recovery			96.		

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) ANALYZED by CAL DHS DRAFT TPH (modified) and EPA 8260 (GC/MS)

(2) EXTRACTED by EPA 5030 (purge-and-trap)

03/02/93
MSD1
MC/mcc

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.


Marissa Coronel
Laboratory Director



Dr. Water & Hazardous Waste Sampling, Analysis & Consultation
Certified Hazardous Waste, Chemistry, Bacteriology & Bioassay Laboratories

San Luis Obispo, CA • Benicia, CA • Camarillo, CA • San Jose, CA • Goleta, CA
Anaheim, CA • Tempe, AZ • Valparaiso, IN • Westbrook, ME • Indianapolis, IN

NorCal Division (San Jose Laboratory)
2059 Junction Ave.

San Jose, CA 95131
(408) 955-9077

CLIENT: Todd Hook
S.P. Environmental Systems
9719 Lincoln Village Suite 310
Sacramento, CA 95827

Lab Number : GE-2588-3
Project : 05149 Carpinteria CA
Analyzed : 12/16/91
Analyzed by: MM
Method : As Listed

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED		
15542 Well#3. Groundwater	Groundwater	Mark Barros	12/11/91	12/11/91	
CONSTITUENT	(CAS RN)	*PQL µg/L	RESULT µg/L	NOTE	
PURGEABLE AROMATICS (BTEX)				1,2	
Benzene	(71432)	0.5	ND		
Toluene	(108883)	0.5	ND		
Ethylbenzene	(100411)	0.5	ND		
Xylenes		0.5	ND		
Percent Surrogate Recovery			94.		

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) ANALYZED by CAL DHS DRAFT TPH (modified) and EPA 8260 (GC/MS)

(2) EXTRACTED by EPA 5030 (purge-and-trap)

03/02/93
MSD1
MC/mcc

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.


Marissa Coronel
Laboratory Director



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NorCal Division (San Jose Laboratory)
2059 Junction Ave.

San Jose, CA 95131
(408) 955-9077

CLIENT: Todd Hook
Industrial Compliance
9719 Lincoln Village Suite 310
Sacramento, CA 95827

Lab Number : GF-1048-1
Project : 05149 399 Linden,
Carpenteria
Analyzed : 04/09/92
Analyzed by: WH
Method : As Listed

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED		
17666 Well #1	Groundwater	Evelyn Ransom	03/31/92	04/01/92	
CONSTITUENT	(CAS RN)	*PQL µg/L	RESULT µg/L	NOTE	
PURGEABLE AROMATICS (BTEX)				1,2	
Benzene	(71432)	0.5	ND		
Toluene	(108883)	0.5	ND		
Ethylbenzene	(100411)	0.5	ND		
Xylenes		0.5	ND		
Percent Surrogate Recovery			79.		

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) ANALYZED by CAL DHS DRAFT TPH (modified) and EPA 8260 (GC/MS)

(2) EXTRACTED by EPA 5030 (purge-and-trap)

03/02/93
MSD1
MC/mcc

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.


Marissa Coronel
Laboratory Director

NorCal Division (San Jose Laboratory)
2059 Junction Ave.San Jose, CA 95131
(408) 955-9077CLIENT: Todd Hook
Industrial Compliance
9719 Lincoln Village Suite 310
Sacramento, CA 95827Lab Number : GF-1048-2
Project : 05149 399 Linden,
Carpenteria
Analyzed : 04/09/92
Analyzed by: MM
Method : As Listed

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED		
17667 Well #2	Groundwater	Evelyn Ransom	03/31/92	04/01/92	
CONSTITUENT	(CAS RN)	*PQL µg/L	RESULT µg/L	NOTE	
PURGEABLE AROMATICS (BTEX)				1,2	
Benzene	(71432)	0.5	ND		
Toluene	(108683)	0.5	ND		
Ethylbenzene	(100411)	0.5	ND		
Xylenes		0.5	ND		
Percent Surrogate Recovery			82.		

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) ANALYZED by CAL DHS DRAFT TPH (modified) and EPA 8260 (GC/MS)

(2) EXTRACTED by EPA 5030 (purge-and-trap)

03/02/93
MSD1
MC/mccRespectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.
Marissa Coronel
Laboratory Director

NorCal Division (San Jose Laboratory)
2059 Junction Ave.San Jose, CA 95131
(408) 955-9077CLIENT: Todd Hook
Industrial Compliance
9719 Lincoln Village Suite 310
Sacramento, CA 95827Lab Number : GF-1048-3
Project : 05149 399 Linden,
Carpenteria
Analyzed : 04/09/92
Analyzed by: JJ
Method : As Listed

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED		
17668 Well #3	Groundwater	Evelyn Ransom	03/31/92	04/01/92	
CONSTITUENT	(CAS RN)	*PQL µg/L	RESULT µg/L	NOTE	
PURGEABLE AROMATICS (BTEx)				1,2	
Benzene	(71432)	0.5	ND		
Toluene	(106683)	0.5	ND		
Ethylbenzene	(100411)	0.5	ND		
Xylenes		0.5	ND		
Percent Surrogate Recovery			80.		

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) ANALYZED by CAL DHS DRAFT TPH (modified) and EPA 8260 (GC/MS)

(2) EXTRACTED by EPA 5030 (purge-and-trap)

03/02/93
MSD1
MC/mccRespectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.
Marissa Coronel
Laboratory Director

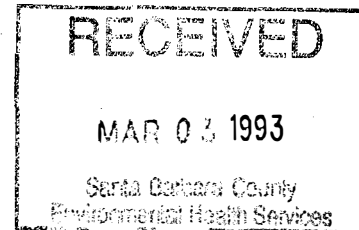


1200 Corporate Center Drive, Suite 390 Monterey Park, CA 91754 213/780-6590 FAX 213/780-6589

March 2, 1993

IC Project No. 052-01913

Mr. John Moore
LUFT Program
Environmental Health Services Department
County of Santa Barbara
120 Cremona Drive, Suite C
Goleta, California 93117



**Re: Response to RWQCB Comments
Southern Pacific Transportation Company
Orchard Services Parcel - 399 Linden Avenue
Carpinteria, California
County UST Site No. 50119**

Dear Mr. Moore:

Pursuant to a request from Mr. Richard Evans of the Santa Barbara County Environmental Health Services Department (County), Industrial Compliance (IC), on behalf of Southern Pacific Transportation Company (SPTCo), has prepared this response to questions and comments of the Regional Water Quality Control Board (RWQCB), Central Coast Region, that were transmitted to the County in a letter dated December 14, 1992. Questions and comments of the December 14, 1992, RWQCB are provided below in bold typeface, and IC responses follow each question.

- 1. What kind and capacity of tanks were on this site (e.g., gasoline, diesel, both)? How old were the tanks? What was the condition of the tanks when they were pulled/removed (assuming they were removed)? Was there an inventory kept of the fuels added to these tanks? If so, were there any significant losses?**

In February of 1990, two underground storage tanks (USTs) were removed by SP Environmental Systems, Inc., (SPEvS, parent company of IC) from the subject site. The 250- and 1000-gallon steel tanks were observed to be in good condition with no holes, even though the tanks reportedly were approximately 40 years old. During tank removal, stained soil was observed above and along the sides of the tanks; therefore, the impact to the soil appeared to have resulted from overfilling and normal operation over time, rather than from a leak. The tanks were believed to have contained super and regular gasoline used for maintenance vehicles at the site; however, no inventory data were available and the analytical laboratory identified the petroleum hydrocarbons as both gasoline and stoddard

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SPEvS conducted a Phase II investigation¹ at the site in October 1990. During excavation activities, one additional UST was discovered. The 100-gallon steel tank with no filler pipes or lines and contained no product. The atmosphere in the tank was rendered inert, and the tank was removed and crushed on site for disposal as scrap metal. The former contents and use of this tank are unknown.

2. **What is the quality of the ground water encountered at 12 feet bgs? Is this usable ground water in terms of pumping capacity (sustained yield of 200 gallons per day) and water quality (a total dissolved solids concentration of less than 3,000 mg/l or 5,000 μ S/cm)?**

The April 28, 1992 report prepared by Industrial Compliance (IC) suggests that ground water may be slightly brackish (based on Conductivity readings shown in their sampling logs). It would be worth collecting a ground water sample and performing a general mineral analyses on it. This would give us a better idea of the quality of the ground water and its potential as a water supply beneficial use.

Although water quality analysis was not performed during previous investigations, specific conductance measurements during well development and purging provide a qualitative indication of the groundwater quality at the site. The average specific conductance of the groundwater measured during all well purging was 950 μ S/cm (average of measurements taken during November 1990, December 1991, and April 1992), which is significantly below the limit of 5,000 μ S/cm. However, this specific conductance is slightly above the secondary Maximum Contaminant Level (MCL) of 900 μ S/cm, but below the recommended upper level of 1,600 μ S/cm. The specific conductance appeared to vary throughout the year, with the highest level of 1,220 μ S/cm measured in December of 1991, and the lowest level of 640 μ S/cm measured in April of 1992. Based on the specific conductance measurements, the total dissolved solids (TDS) level, and possibly chloride concentration, periodically may exceed the respective secondary MCLs.

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are screened appears to exceed 200 gallons per day. During well development, 20 gallons of groundwater was removed from each well in less than 1 hour. However, these data do not indicate the long-term capacity of the water-bearing unit, which could be significantly lower than the short-term capacity measured.

Based on the information provided above, IC does not consider water quality analysis warranted for this site. These analyses may be warranted if impact to the groundwater were indicated by the groundwater monitoring data. Since the current data indicates that the groundwater is not impacted, the potential for beneficial use of the groundwater has not been impaired, and the quality of the groundwater therefore is not relevant.

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IC currently does not consider another round of groundwater monitoring warranted for this site. Three rounds of groundwater monitoring have been performed, and total petroleum hydrocarbons as gasoline, diesel, or stoddard solvent have not been detected in any samples from the monitoring wells at concentrations above the laboratory reporting limit of 50 $\mu\text{g/l}$. Although stoddard solvent was detected at a concentration of 620 $\mu\text{g/l}$ in a sample of groundwater collected on April 29, 1991, from the excavation, this sample is not considered representative of groundwater because:

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Based on the information presented above, IC respectfully requests reconsideration of the site for closure without additional groundwater monitoring. As noted above, petroleum constituents have not been detected in any representative samples of groundwater collected from the monitoring wells installed by IC at the site. In addition, confirmation sampling of the excavations indicates that the affected soil has been removed.

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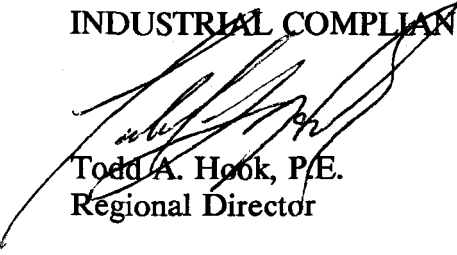


Mr. John Moore
March 2, 1993
Page 5

If there are any questions or comments regarding this matter, please contact me at your convenience.

Sincerely,

INDUSTRIAL COMPLIANCE



Todd A. Hook, P.E.
Regional Director

TAH

cc: J. C. Moe, SPTCo
D. W. Long, Esq., SPTCo





Industrial Compliance

CARPENTERIA

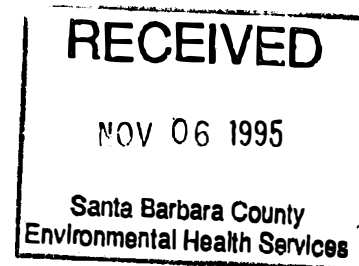
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March 2, 1993

IC Project No. 052-01913

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County UST Site No. 50119



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In February of 1990, two underground storage tanks (USTs) were removed by SP Environmental Systems, Inc., (SPEnvS, parent company of IC) from the subject site. The 250- and 1000-gallon steel tanks were observed to be in good condition with no holes, even though the tanks reportedly were approximately 40 years old. During tank removal, stained soil was observed above and along the sides of the tanks; therefore, the impact to the soil appeared to have resulted from overfilling and normal operation over time, rather than from a leak. The tanks were believed to have contained super and regular gasoline used for maintenance vehicles at the site; however, no inventory data were available and the analytical laboratory identified the petroleum hydrocarbons as both gasoline and stoddard

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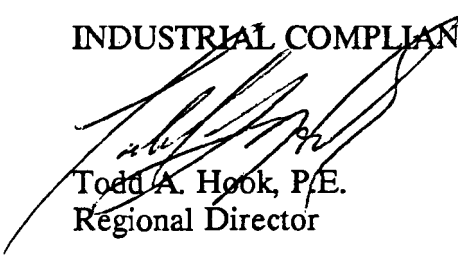


Mr. John Moore
March 2, 1993
Page 5

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Sincerely,

INDUSTRIAL COMPLIANCE



Todd A. Hook, P.E.
Regional Director

TAH

cc: J. C. Moe, SPTCo
D. W. Long, Esq., SPTCo





Industrial Compliance

1200 Corporate Center Drive, Suite 390 Monterey Park, CA 91754 213/780-6590 FAX 213/780-6589

March 2, 1993

Mr. John Moore

LUFT Program

Environmental Health Services Department

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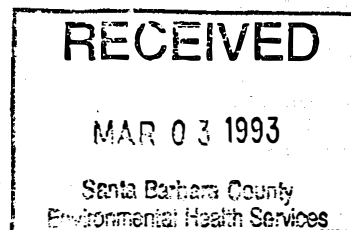
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Post-It™ brand fax transmittal memo 7671		# of pages ▶ 7
To FRANK J. DEMARCO	From R. EVANS	
Co.	Co.	
Dept. RWQCB	Phone # 6814966	
Fax # 543-0397	Fax #	



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Mr. John Moore

March 2, 1993

Page 2

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Mr. John Moore

March 2, 1993

Page 3

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Mr. John Moore

March 2, 1993

Page 4

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Mr. John Moore

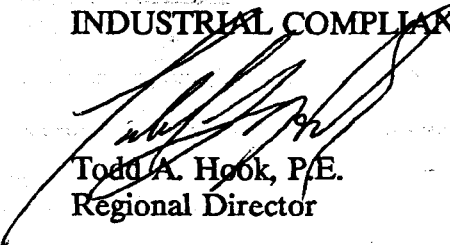
March 2, 1993

Page 5

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Sincerely,

INDUSTRIAL COMPLIANCE



Todd A. Hook, P.E.
Regional Director

TAH

cc: J. C. Moe, SPTCo
D. W. Long, Esq., SPTCo



HAZARDOUS MATERIAL SMU/LUFT PROGRAM

CONTACT REPORT

DATE: _____ TIME: _____

NAME OF PERSON: _____ TITLE: _____

COMPANY OR AGENCY: _____

SITE: SMU ☐ LUFT ☒ ADDRESS: 399 LindenPHONE: () _____ TYPE OF CONTACT: OFFICE ☐ PHONE ☐ FIELD ☐ OTHER _____

SUBJECT: _____

SUMMARY OF DISCUSSION: MESSAGE from Frank De Marco 542-4638BTXE issueGCMSQualitative notvalidated standardmeasure BTXEREPORTED BY: Richard Evans

HAZARDOUS MATERIAL SMU/LUFT PROGRAM

CONTACT REPORT

DATE 12/22/92 TIME 4:00NAME OF PERSON: TODD HOOK TITLE: Project ManagerCOMPANY OR AGENCY: Industrial ComplianceSITE: SMU ☐ LUFT ☒ ADDRESS: 399 LINDENPHONE: (231) 780-6592 TYPE OF CONTACT: OFFICE ☐ PHONE ☒ FIELD ☐ OTHER: ☐

SUBJECT: _____

SUMMARY OF DISCUSSION: _____

Phone call to Todd Hook. LMTCB w/ screening

1/7/93 Return call from Mr. Todd Hook of I.C. He stated that he had received the letter from the Central Coast RWQCB and would be responding to the questions. Based on his files he felt that the concerns from RWQCB would be clarified without any further action at the site. He stated that he would review his files and respond the week of Jan 18, 1993.

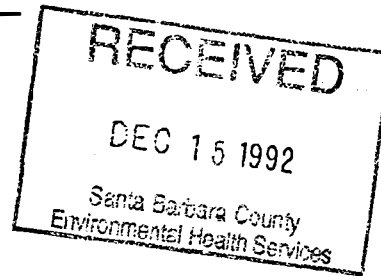
REPORTED BY: Richard E. Lewis

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD —
CENTRAL COAST REGION

81 HIGUERA STREET, SUITE 200
SAN LUIS OBISPO, CA 93401-5414
(805) 549-3147



December 14, 1992



Mr. John Moore, Supervisor
LUFT Program
County of Santa Barbara
Environmental Health Services Department
120 Cremona Drive, Suite C
Goleta, CA 93117

UGT/ORCHARD SERVICES/SOUTHERN PACIFIC RAILROAD, 399 LINDEN AVE.,
CARPINTERIA

Mr. Richard Evans' letter of October 28, 1992 requests concurrence on site closure for the above site. We have determined closure is inappropriate at this time. Prior to our considering closure for this site, please provide responses to the following:

1. What kind and capacity of tanks were on this site (e.g., gasoline, diesel, both)? How old were the tanks? What was the condition of the tanks when they were pulled/removed (assuming they were removed)? Was there an inventory kept of the fuels added to these tanks? If so, were there any significant losses?
answered: Tanks in good condition. No holes observed.
2. What is the quality of the ground water encountered at 12 feet bgs? Is this usable ground water in terms of pumping capacity (sustained yield of 200 gallons per day) and water quality (a total dissolved solids concentration of less than 3,000 mg/l or 5,000 uS/cm)?
appears to be perched based on depth water was encountered (Apr 1994), and the final water level (12 ft).
The April 28, 1992 report prepared by Industrial Compliance (IC) suggests the ground water may be slightly brackish (based on Conductivity readings shown in their sampling logs). It would be worth collecting a ground water sample and performing a general mineral analyses on it. This would give us a better idea of the quality of the ground water and its potential as a water supply beneficial use.
This water was not tested for mineral analyses.
3. We propose you have the responsible party conduct another round of ground water sampling. The sampling should be done after a significant rainfall event and after ground water is at its highest levels (seasonal high ground water). The purpose here is to see if any contamination is flushed out of the vadose zone or the saturated zone. The ground water samples must be analyzed using EPA test method 602, purgeable aromatics, so we can check the BTEX concentrations.

Request this from RP for closure.

*include mineral
We only have two sampling events. If clean we can close base on the fact that all contaminated soil has been removed & gw samples has never shown impact.*

BTEX has never been a
problem at the site

Mr. John Moore

-2-

December 14, 1992

4. We received the results of only one sampling event, April 1992. What were the results of the first sampling event referenced in the Mr. Evans' October 28 letter? Why was only TPH analyzed? ~~Richard~~ ~~March~~ ~~the~~ ~~1992~~ ~~Sampling~~
date

Please direct questions to Frank DeMarco at (805) 542-4638 or Bob Baldrige at (805) 542-4620 between the hours of 8:00 and 10:00 a.m. or 1:00 and 5:00 p.m.

Sincerely,

William R. Leonard
WILLIAM R. LEONARD
Executive Officer

FJD56/Orchard.1tr

c.c. Todd Hook, IC
9719 Lincoln Village Drive, Suite 310
Sacramento, CA 95827

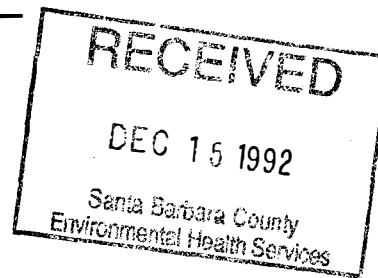
js

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD —
CENTRAL COAST REGION**

81 HIGUERA STREET, SUITE 200
SAN LUIS OBISPO, CA 93401-5414
(805) 549-3147



December 14, 1992



Mr. John Moore, Supervisor
LUFT Program
County of Santa Barbara
Environmental Health Services Department
120 Cremona Drive, Suite C
Goleta, CA 93117

**UGT/ORCHARD SERVICES/SOUTHERN PACIFIC RAILROAD, 399 LINDEN AVE.,
CARPINTERIA**

Mr. Richard Evans' letter of October 28, 1992 requests concurrence on site closure for the above site. We have determined closure is inappropriate at this time. Prior to our considering closure for this site, please provide responses to the following:

1. What kind and capacity of tanks were on this site (e.g., gasoline, diesel, both)? How old were the tanks? What was the condition of the tanks when they were pulled/removed (assuming they were removed)? Was there an inventory kept of the fuels added to these tanks? If so, were there any significant losses?
2. What is the quality of the ground water encountered at 12 feet bgs? Is this usable ground water in terms of pumping capacity (sustained yield of 200 gallons per day) and water quality (a total dissolved solids concentration of less than 3,000 mg/l or 5,000 uS/cm)?

The April 28, 1992 report prepared by Industrial Compliance (IC) suggests the ground water may be slightly brackish (based on Conductivity readings shown in their sampling logs). It would be worth collecting a ground water sample and performing a general mineral analyses on it. This would give us a better idea of the quality of the ground water and its potential as a water supply beneficial use.

3. We propose you have the responsible party conduct another round of ground water sampling. The sampling should be done after a significant rainfall event and after ground water is at its highest levels (seasonal high ground water). The purpose here is to see if any contamination is flushed out of the vadose zone or the saturated zone. The ground water samples must be analyzed using EPA test method 602, purgeable aromatics, so we can check the BTEX concentrations.

Mr. John Moore

-2-

December 14, 1992

4. We received the results of only one sampling event, April 1992. What were the results of the first sampling event referenced in the Mr. Evans' October 28 letter? Why was only TPH analyzed?

Please direct questions to Frank DeMarco at (805) 542-4638 or Bob Baldrige at (805) 542-4620 between the hours of 8:00 and 10:00 a.m. or 1:00 and 5:00 p.m.

Sincerely,



WILLIAM R. LEONARD
Executive Officer

FJD56/Orchard.1tr

c.c. Todd Hook, IC
9719 Lincoln Village Drive, Suite 310
Sacramento, CA 95827

js



COUNTY OF SANTA BARBARA
ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

120 CREMONA DRIVE, SUITE C • COLETA, CALIFORNIA 93117
PHONE (805) 681-4900 • FAX: (805) 681-4901

GARY W. ERBECK, R.E.M.S., M.P.H.
DIRECTOR

October 28, 1992

Frank DeMarco
Central Coast RWQCB
81 Higuera Street, Suite 200
San Luis Obispo, CA 93401-5414

Dear Mr. DeMarco:

RE: Orchard Services/Southern Pacific Railroad, 399 Linden Ave, Carpinteria, CA
LUFT Site # 50119

Santa Barbara County Environmental Health Services (SBCEHS) Leaking Underground Fuel Tank (LUFT) Program has determined that the site investigation and remedial action at the above site is complete. Prior to site closure concurrence is required from the Regional Water Quality Control Board (RWQCB).

Two consecutive quarterly groundwater sampling events collected from the three onsite monitoring wells did not indicate concentrations of TPH or BTEX above SBCLP cleanup levels. The clay layer observed at 10 ft bgs appears to have prevented the downward migration of hydrocarbons.

Due to the fact that there was an initial indication that groundwater might be contaminated at this site, the RWQCB needs to concur that site closure is applicable. Once the RWQCB has completed their review and ensured that all matters relevant to the groundwater have been addressed, SBCLP will complete closure.

Enclosed is the Industrial Compliance Quarterly Report that summarizes the site activities and analytical results.

If you have any questions or comments regarding this matter, please contact me at (805) 681-4966.

Sincerely,

Richard Evans
Hazardous Materials Specialist
SMU/LUFT Program

RE:ck;50119.ltr

Enclosure

hour

5/10/92

COUNTY OF SANTA BARBARA

OFFICE MEMORANDUM

To Richard Evans

Date 5/15/92

From Barbara Fontes

In re 399 Linden Ave - #50119

Questions - Did they provide calculations for groundwater gradient and did they estimate how much contaminated soil is left in place?

- 1) How deep were the tank bottoms (bgs)?
- 2) How many groundwaters sampling events have been non-detect for BTEX + TPH? Too sensitive
- 3) Why weren't soil samples collected in the yellow high lighted areas which would prove the soil contamination is localized excavated - verified by
- 4) Did an Engineer certify that sample couldn't be collected closer to the track. ^{Det Anna} It appears that the track is about 30 ft from the "hot" area.

ORAL messages waste your time and the time of the other person; they often cause annoying interruptions and are apt to be misunderstood or forgotten. Put it in writing.

mentioned 2 cons. quarters -
means - no change
1/4 mile to Ocean
quadrant to small

County of Santa Barbara
Health Care Services - LUFT Program
Site Investigation Report

Site Name: Orlando Services
Site Location: 399 Linden, Carpinteria
Site No: 50119
Person Contacted: EVELYN FANSON
Consultant Firm: IC Compliance

Date: 4/1/92
Arrival: 9:00
Departure: 9:25
Phone:
Phone:

Estimated depth to groundwater: 5.6 ft BGS
Type of hazardous substance released: Stoddard

Field Screening Equipment:

- Consultant EC meter
- LUFT MICRO-TIP

Purpose of Inspection:

Observe the removal of the spoil pile.

Field Observations / Comments:

Arrived on site to observe the removal of the spoil pile.

HAZARDOUS WASTE HAULER

EPA #CAD 982319428

DESAUTELLE & SON, INC.

D & S
Trucking

VACUUM TRUCK & ROLL OFF SERVICES
SEMI END DUMP

CHUCK DESAUTELLE

P.O. BOX 122
OAK VIEW, CA 93022
24 HR. (805) 643-8118

Investigated By:

Date:

Richard Evans 4/1/92

RP Samples Taken

 H₂O Soil

Analysis:

RP Laboratory:

LUFT Samples Taken

 H₂O Soil

Analysis:

County of Santa Barbara
Health Care Services - LUFT Program
Site Investigation Report

Site Name: ORCHARD SERVICES
Site Location: 399 LINDEN, CARMINTERIA
Site No: 50119
Person Contacted: Evelyn Ranson
Consultant Firm: I.C. Compliance

Date: 3/31/92
Arrival: 8:30 - 12:30
Departure: 3:00 - 4:00
Phone:
Phone:

Estimated depth to groundwater: ~ 5.2 ft BGS
Type of hazardous substance released: stoddard solvent
Field Screening Equipment:
- Consultant F.C. meter
- LUFT -

Purpose of Inspection:

Witness G.W. sampling and removal of
spoils pile

RP Samples Taken
☒ H₂O ☐ Soil

Analysis:

RP Laboratory:

TEST TO TEST

LUFT Samples Taken
☐ H₂O ☐ Soil

Analysis:

Field Observations / Comments:

Met with Evelyn Ranson of I.C. Compliance to discuss the site activities
Assisted in obtaining a hollow Allen wrench to remove the well covers.
Witness the purging & sampling of the monitoring wells. Chuck Desautelle
was on site representing D&S Trucking, who was transporting the spoils pile to
Ventura. The soils were transported by two 1177000s. The 55 gallon
drum on site was allowed to be emptied and properly disposed of.

Investigated By:

Richard Evans

Date:

3/31/92



COUNTY OF SANTA BARBARA • ENVIRONMENTAL HEALTH SERVICES

5540 EKWILL STREET, SUITE B • SANTA BARBARA, CALIFORNIA 93111 • (805) 681-5200

March 2, 1992

Mr. John Moe
Southern Pacific Railroad
One Market Plaza, Room 1007
San Francisco, CA 94105

Dear Mr. Moe:

RE: Southern Pacific Transportation Company Property
399 Linden Avenue, Carpinteria, CA LUFT # 50119

The Santa Barbara County Environmental Health Services LUFT Program (SBCLP) has received the report dated January 8, 1992, for the above referenced site.

After careful review of this report, we approve your proposal with the following conditions(s):

- 1) An inspector from SBCLP must be present during site work. Please call forty-eight (48) hours in advance to schedule an appointment.

If you have any questions or comments, please contact me at (805) 681-5200. After March 5, 1992 our new office address will be 120 Cremona Drive, Building C, Goleta, CA 93117.

Sincerely,

Richard Evans
Hazardous Materials Specialist
LUFT Program

RE:lc

pc: Ana Nathe
Industrial Compliance
9719 Lincoln Village Drive, Suite 310
Sacramento, CA 95827

BRANCH OFFICES



500 West Foster Rd.
Santa Maria, CA 93455
(805) 934-6223



751-B East Burton Mesa
Lompoc, CA 93436
(805) 737-7744

SANTA BARBARA COUNTY

HAZARDOUS MATERIAL SMU/LUFT PROGRAM

CONTACT REPORT

DATE 2/28/92 TIME 9:21

NAME OF PERSON: Ana Nathe TITLE Project Manager

COMPANY OR AGENCY: Industrial Compliance

SITE SMU ☐ LUFT ☒ ADDRESS: 399 LINDEN, CARPINTERIA

PHONE: (916) 369-8971 TYPE OF CONTACT: OFFICE ☐ PHONE ☒ FIELD ☐ OTHER ☐

SUBJECT: Soil Removal

SUMMARY OF DISCUSSION:

A call was placed to Ana Nathe at Industrial Compliance to inform her that the soil removal would be approved. She stated that she would try to schedule for the week of 3/9/92.

REPORTED BY: Richard Claus

HAZARDOUS MATERIAL SMU/LUFT PROGRAM

CONTACT REPORT

DATE 2/18/93 TIME 11:15NAME OF PERSON: Todd Hook TITLE: Project ManagerCOMPANY OR AGENCY: Industrial ComplianceSITE: SMU ☐ LUFT ☐ ADDRESS: 399 LINDENPHONE: (213) 780 6992 TYPE OF CONTACT: OFFICE ☐ PHONE ☒ FIELD ☐ OTHER: _____

SUBJECT: _____

SUMMARY OF DISCUSSION: _____

Phone call to Mr. Todd Hook to get an update on
the RWQCB request for additional information.
LMTCB w/ answering machine

// LMTCB w/ answering machine 2/23/93

// Return call from Mr. Todd Hook - He stated that a letter
would be submitted the week of Feb 22, 1993 to address
the RWQCB question.

REPORTED BY: _____

OFFICE MEMORANDUM

To

Kate Sulha

Date

2/11/92

From

Richard Evans

In re

399 LINDEN

According to INDUSTRIAL COMPLIANCE the Regional Board will not write a letter stating its approval for the soil treatment. Review of the waste discharge requirements indicates that it is acceptable. With your concurrence I would like to approve the removal of the soil.

Richard:

Looks ok to me - Be sure they fully document all soil removed - K.S.

ORAL messages waste your time and the time of the other person; they often cause annoying interruptions and are apt to be misunderstood or forgotten. Put it in writing.

SANTA BARBARA COUNTY

HAZARDOUS MATERIAL SMU/LUFT PROGRAM

CONTACT REPORT

DATE: 2/3/92 TIME: 3:20

NAME OF PERSON: Ana Nathe TITLE: Project Manager

COMPANY OR AGENCY: I C. Compliance

SITE: SMU ☐ LUFT ☒ ADDRESS: 399 LINDEN

PHONE: () TYPE OF CONTACT: OFFICE ☐ PHONE ☒ FIELD ☐ OTHER: ☐

SUBJECT: Disposal of Soils on site.

SUMMARY OF DISCUSSION:

Return call to Ms Nathe concerning the disposal of the soils on site. She stated that Ven V. Golek had submitted the information approximately two weeks ago. She stated if it was not submitted it would be resubmitted.

REPORTED BY:

Richard Evans

OFFICE MEMORANDUM

To File Date 1/17/92
From Richard Evers In re 399 LINDEN, CARPINTERIA
LUET sub # 5019

Review of the quarterly report did not indicate groundwater contamination

ORAL messages waste your time and the time of the other person; they often cause annoying interruptions and are apt to be misunderstood or forgotten. *Put it in writing.*

SANTA BARBARA COUNTY

HAZARDOUS MATERIAL SMU/LUFT PROGRAM

CONTACT REPORT

DATE: 1/16/92 TIME: 10:36 AM

NAME OF PERSON: Ana Nathe TITLE: Associate Project Manager

COMPANY OR AGENCY: Industrial Compliance

SITE: SMU ☐ LUFT ☒ ADDRESS: 399 Zenolen

PHONE: (916) 369-8077 TYPE OF CONTACT: OFFICE ☐ PHONE ☒ FIELD ☐ OTHER: ☐

SUBJECT: _____

SUMMARY OF DISCUSSION: _____

Message from Ana Nathe of Industrial Compliance
requesting a return call.

Return call LMTCB w/ secretary

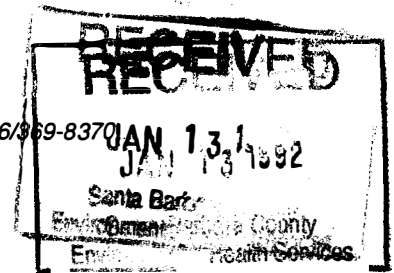
Call to Ana Nathe who requested information on
when the UST were removed. Her request was for
a copy of the Tank Abandonment Application.

REPORTED BY: Richard Evans



Industrial Compliance

9719 Lincoln Village Drive, Suite 310 Sacramento, CA 95827 916/369-8971 FAX 916/369-8370



January 8, 1992

Mr. Richard Evans
LUFT Program
Santa Barbara County
Environmental Health District
5540 Ekwill Street, Suite B
Santa Barbara, California 93111

**SUBJECT: Fourth Quarter 1991 - Groundwater Sampling Results
Southern Pacific Transportation Company Property
399 Linden Avenue
Carpinteria, California
SBCHD Site # 50119
IC Project No. 05149**

Dear-Mr. Evans:

On behalf of the Southern Pacific Transportation Company (SPTCo), Industrial Compliance, Inc. (IC) conducted the first of two groundwater sampling rounds at the above-referenced site (Figures 1 and 2). At least two consecutive quarterly sampling events have been required by the Santa Barbara County Health District (SBCHD) in order to close the site (UST Site # 50119). A brief summary of site activities and analytical results is provided below.

SITE ACTIVITIES

On December 11, 1991, IC arrived on site to conduct the sampling of three groundwater monitoring wells at the site. The IC field technician obtained depth to groundwater measurements from each well, which were used to calculate the groundwater gradient at the site.¹ The groundwater flow direction on December 11, 1991, was calculated to be South 36° West (see Figure 3).

For purging purposes, the volume of water in each well was calculated using the total depth of the well, the depth to water, and the multiplier of 0.16 gallons per linear foot of water for a 2-inch diameter well (see Attachment A for the Well Sample Sheets). A minimum of three well casing volumes were purged from each well with a new disposable bailer (one bailer per well). During purging, the field technician monitored temperature, pH and conductivity. The purge water was retained in a 55-gallon drum.

¹ Based on a review of the samplers' field notes and map, it is evident that the well caps of monitoring wells MW-2 and MW-3 had been switched. Thus, the data for MW-2 and MW-3 shown on logs, chain-of-custody form, etc., included herein as Attachments, actually correspond to MW-3 and MW-2, respectively. This switch was taken into account when the gradient at the site was calculated. The well caps will be placed on the appropriate wells during the next site visit.



Upon completion of the purging activities, a new disposable bailer was used to obtain a water sample from each well (one bailer per well). For each well, three 40-milliliter vials (with dilute hydrochloric acid as a preservative) were completely filled without allowing any headspace to remain in the container. The samples were labeled, logged onto a chain-of-custody form, placed in an iced cooler, and delivered to the Coast-to-Coast Analytical Laboratory in Goleta, California for chemical analyses.

ANALYTICAL RESULTS

One sample from each well was analyzed for total petroleum hydrocarbons (TPH) with fuel identification (extraction by EPA Method 5030 [purge and trap], and analyzed by CAL DHS DRAFT TPH [Modified] and EPA Method 8260 [GC/MS]). The chemical analyses performed on the water samples from the three wells at the subject site did not detect TPH constituents (gasoline, diesel, stoddard solvent) at, or above, the practical quantitation limit of 50 parts per billion (a copy of the laboratory analytical reports and the chain-of-custody form are included as Attachment B).

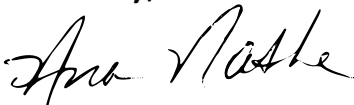
OTHER SITE ACTIVITIES

With respect to the stockpiled soil on site, IC intends to transport the non-hazardous material to the VenVirotek facility in Ventura County. The soil will be treated using the Chemfix method and will be utilized as daily cover at the Ventura County Landfill. Documentation of the Regional Water Quality Control Board's approval of VenVirotek's Chemfix method as treatment of petroleum-affected soil is being forwarded to the SBCHD for reference. IC intends to schedule the soil removal activities for February, 1992.

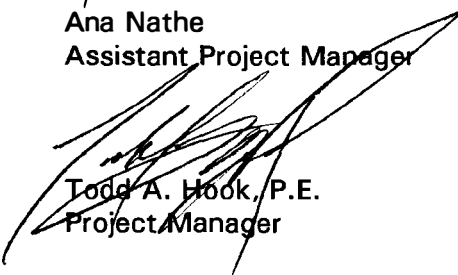
The next quarterly groundwater sampling round will be conducted in February, 1992. Upon submittal of the analytical results from the second round of sampling and completion of the soil disposal activities, IC will request closure of the site, assuming that the analytical results do not indicate the presence of petroleum hydrocarbons.

If you have any questions or comments regarding this submittal, please contact either of the undersigned.

Sincerely,



Ana Nathe
Assistant Project Manager



Todd A. Hook, P.E.
Project Manager

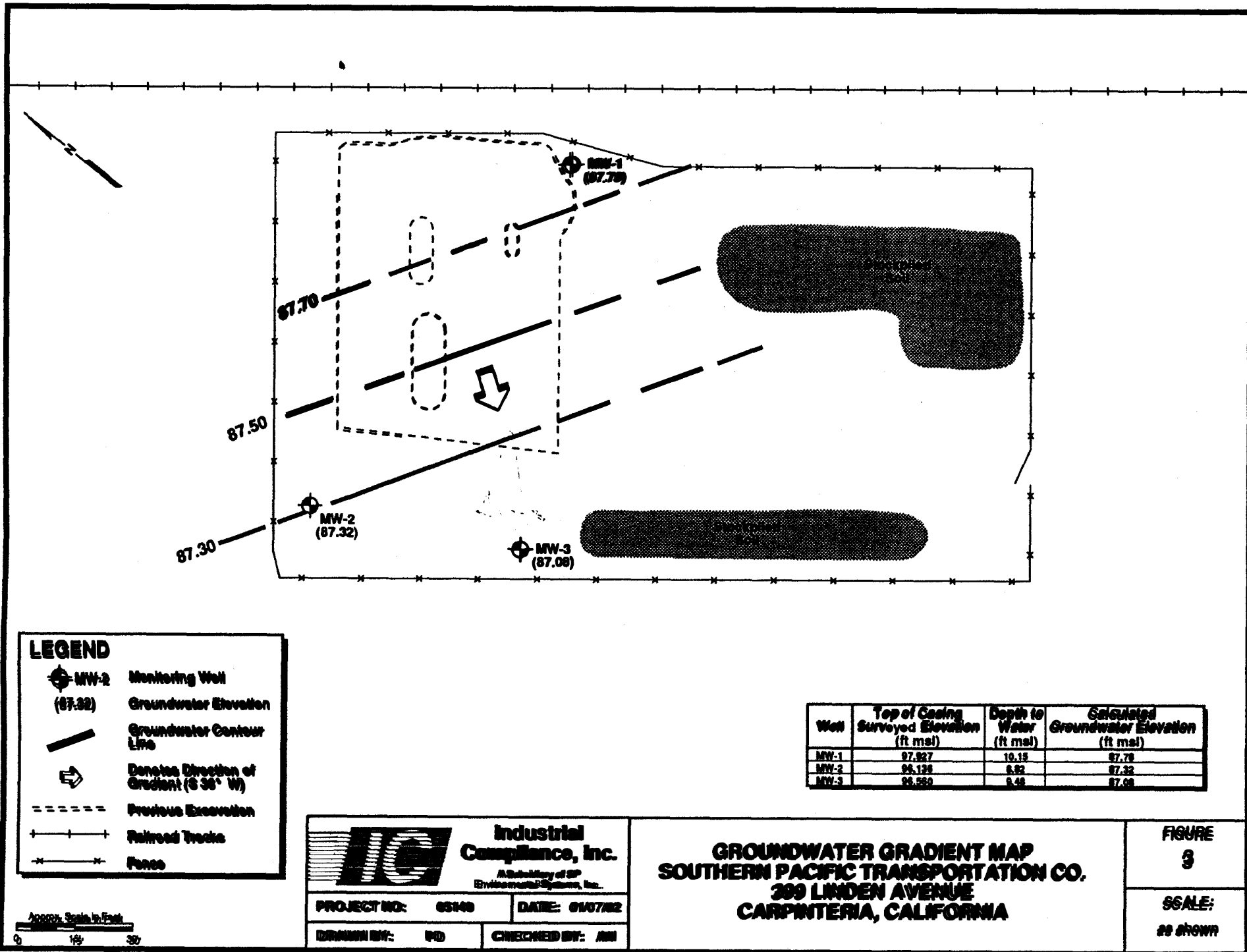
January 8, 1992
Santa Barbara County Health District (05149)
Mr. Richard Evans
Page 3

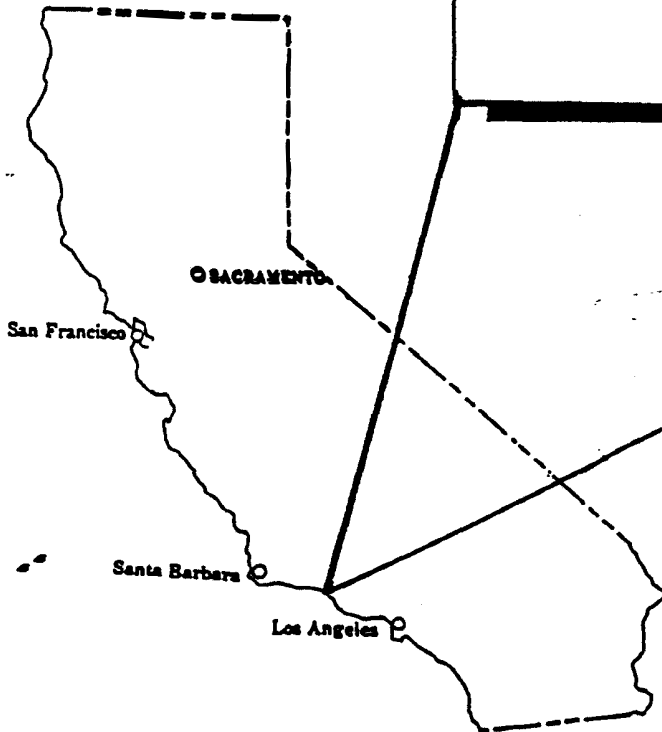
TAH:AMN:ekw

Attachments: **A - Well Sample Sheets**
 B - Laboratory Analytical Reports and Chain-of-Custody Form

cc: **John Moe, SPTCo Environmental Department (w/o attachments)**
 Doug Wubben, SPTCo Real Estate Department (w/o attachments)
 Dave Long, SPTCo Legal Department (w/o attachments)

Carpinteria Water Results/05149WTR.RPT/AMNDEK3

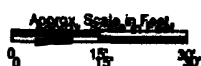




Approx. Scale in Feet
2000

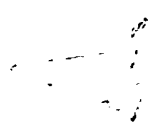
 Industrial Compliance, Inc. A Subsidiary of CSP Environmental Systems, Inc.		SITE LOCATION MAP SOUTHERN PACIFIC TRANSPORTATION CO. 399 LINDEN AVENUE AND ADJACENT PROPERTY CARPINTERIA, CALIFORNIA		FIGURE: 1	
PROJECT NO: 05149		DATE: 01/07/02		SCALE: as shown	
DRAWN BY: RD		CHECKED BY: AM			

05149 Fig 1/Title 73 Soil Rem Rpt 0102



SCALE:
as shown

ATTACHMENT A
WELL SAMPLE SHEETS



WELL SAMPLE SHEET

JOS149

Well No. 71Sample No. 13178Sample Time 1145Date 12-11-91

Purge

Start Time 0955

Purge

Stop Time 1020Sampling Personnel Mark BarmanInitials MTBWeather Conditions Sunny, Calm, 65°Sample Collection Method Boiler

Well Measurements:

2-inch ID mult = 0.16
 4-inch ID mult = 0.65
 6-inch ID mult = 1.47
 8-inch ID mult = 2.61

Measured depth to bottom (DB) = 19.6
 Depth to Water (DW) = 10.15
 Height of water column (H) = DB-DW = 8.85
 One casing volume (CV) = ID mult * H = 1.4
 Desired Purge Volume (3CV) = 4.2

Purge Data

Time	0955	1005	1015	1020			
pH	7.6	6.8	6.7	6.9			
Temp (F)	69.8	71.5	72.4	71.2			
EC (us)	1310	1310	1400	1360			
Flow (sec/gal)							
Turbidity	clear	murky	murky	slight murky			
Odor	NONE	NONE	NONE	NONE			
Volume purged	0	1	3	4			

Comments

Samples are clear, no odorMark Barman at NE corner of Brown excavation

WELL SAMPLE SHEET

J05149

Well No. 2

Sample No. 113174

Date 12-11-91

Sample Time 1240

Purge Start Time 1205

Purge Stop Time 1230

Sampling Personnel Mark Barnes

Weather Conditions Sunny, Calm, 70°

Sample Collection Method Boiler

Well Measurements:

2-inch ID mult = 0.16	Measured depth to bottom (DB) =	19
4-inch ID mult = 0.65	Depth to Water (DWW) =	9.48
6-inch ID mult = 1.47	Height of water column (H) = DB-DWW	9.52
8-inch ID mult = 2.61	One casing volume (CV) = ID mult * H	1.3
	Desired Purge Volume (3CV)	4.5

Purge Data

Time		1245	1225	1230			
pH		7.6	7.3	7.3			
Temp (F)		73.0	73.8	73.4			
EC (us)		1236	1399	1400			
Flow (sec/gal)							
Turbidity		murky	murky	murky			
Odor		NONE	NONE	NONE			
Volume purged	0	1	3	4.5			

Comments Samples are clear, no odor.

MW-2 located south of former excavation
(actually = MW-3).

WELL SAMPLE SHEET

J 05149

Well No. 3

Sample No. 11554/2

Date 11-11-91

Purge Start Time 1035

Purge Stop Time 1100

Sample Time 1115

Sampling Personnel Mark Bonross

Initials MB

Weather Conditions Sunny, Calm, 67°

Sample Collection Method Bawitern

Well Measurements:

2-inch ID mult = 0.16	Measured depth to bottom (DB) =	117.5
4-inch ID mult = 0.65	Depth to Water (DWW) =	8.8
6-inch ID mult = 1.47	Height of water column (H) = DB-DWW	8.6
8-inch ID mult = 2.61	One casing volume (CV) = ID mult x H	1.3
	Desired Purge Volume (PCV)	24.4

Purge Data

Time	1035	1043	1055	1100			
pH	7.5	7.4	7.4	7.2			
Temp (F)	69.2	70.8	72.8	72.2			
EC (us)	8280	8420	9130	9020			
Flow (sec/gal)							
Turbidity	clear	murky	murky	murky			
Odor	NONE	NONE	NONE	NONE			
Volume purged	0	1	3	4			

Comments

Samples are clear, no odor

MW-3 located west of former excavation
(archaeologically = MW-2)

ATTACHMENT B
ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORM

**COAST-TO-
COAST
ANALYTICAL
SERVICES**

Air, Water & Hazardous Waste Sampling, Analysis & Consultation
Certified Hazardous Waste, Chemistry, Bacteriology & Bioassay Laboratories

San Luis Obispo, CA • Goleta, CA • Benicia, CA • Camarillo, CA • Newport Beach, CA • Valparaiso, IN

Santa Barbara Division
751 S. Kellogg, Goleta, California 93117

(805) 964-7838
FAX (805) 967-4386

CLIENT: Todd Hook
S.P. Environmental Systems
9719 Lincoln Village Suite 310
Sacramento, CA 95827

Lab Number : GE-2588-2
Project : 05149 Carpinteria CA
Analyzed : 12/16/91
Analyzed by: MM
Method : As Listed

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED		
13178 Well#1. Groundwater	Groundwater	Mark Barros	12/11/91	12/11/91	
CONSTITUENT	(CAS RN)	*PQL ppb	RESULT ppb	NOTE	
TOTAL PURGEABLE PETROLEUM HYDROCARBONS					1,2
Total Petroleum Hydrocarbons (Gasoline)		50.	ND		
Total Petroleum Hydrocarbons (Diesel 2)		50.	ND		
Total Petroleum Hydrocarbons (Stoddard)		50.	ND		
Percent Surrogate Recovery			96.		

Santa Barbara Division is certified by CA Department of Health Services: ELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) EXTRACTED by EPA 5030 (purge-and-trap)

(2) ANALYZED by CAL DHS DRAFT TPH (modified) and EPA 8260 (GC/MS)

12/17/91
MSD1
MC/jaj/mcc/whh

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.

Marissa Coronel
Marissa Coronel
Laboratory Director

**COAST-TO-
COAST
ANALYTICAL
SERVICES**

**Air, Water & Hazardous Waste Sampling, Analysis & Consultation
Certified Hazardous Waste, Chemistry, Bacteriology & Bioassay Laboratories**

San Luis Obispo, CA • Goleta, CA • Benicia, CA • Camarillo, CA • Newport Beach, CA • Valparaiso, IN

**Santa Barbara Division
751 S. Kellogg, Goleta, California 93117**

**(805) 964-7838
FAX (805) 967-4386**

**CLIENT: Todd Hook
S.P. Environmental Systems
9719 Lincoln Village Suite 310
Sacramento, CA 95827**

**Lab Number : GE-2588-1
Project : 05149 Carpinteria CA
Analyzed : 12/16/91
Analyzed by: MM
Method : As Listed**

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED	
13174 Well#2. Groundwater	Groundwater	Mark Barros	12/11/91	12/11/91
CONSTITUENT	(CAS RN)	*PQL ppb	RESULT ppb	NOTE
TOTAL PURGEABLE PETROLEUM HYDROCARBONS				1,2
Total Petroleum Hydrocarbons (Gasoline)		50.	ND	
Total Petroleum Hydrocarbons (Diesel 2)		50.	ND	
Total Petroleum Hydrocarbons (Stoddard)		50.	ND	
Percent Surrogate Recovery			100.	

Santa Barbara Division is certified by CA Department of Health Services: ELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) EXTRACTED by EPA 5030 (purge-and-trap)

(2) ANALYZED by CAL DHS DRAFT TPH (modified) and EPA 8260 (GC/MS)

12/17/91
MSD1
MC/jaj/mcc/whh

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.

Marissa Coronel
Marissa Coronel
Laboratory Director

**COAST-TO-
COAST
ANALYTICAL
SERVICES**

Air, Water & Hazardous Waste Sampling, Analysis & Consultation
Certified Hazardous Waste, Chemistry, Bacteriology & Bioassay Laboratories

San Luis Obispo, CA • Goleta, CA • Benicia, CA • Camarillo, CA • Newport Beach, CA • Valparaiso, IN

Santa Barbara Division
751 S. Kellogg, Goleta, California 93117

(805) 964-7838
FAX (805) 967-4386

CLIENT: Todd Hook
S.P. Environmental Systems
9719 Lincoln Village Suite 310
Sacramento, CA 95827

Lab Number : GE-2588-3
Project : 05149 Carpinteria CA
Analyzed : 12/16/91
Analyzed by: MM
Method : As Listed

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED	
15542 Well#3. Groundwater	Groundwater	Mark Barros	12/11/91	12/11/91
CONSTITUENT	(CAS RN)	*PQL ppb	RESULT ppb	NOTE
TOTAL PURGEABLE PETROLEUM HYDROCARBONS				1,2
Total Petroleum Hydrocarbons (Gasoline)		50.	ND	
Total Petroleum Hydrocarbons (Diesel 2)		50.	ND	
Total Petroleum Hydrocarbons (Stoddard)		50.	ND	
Percent Surrogate Recovery			94.	

Santa Barbara Division is certified by CA Department of Health Services: ELAP #1204
*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) EXTRACTED by EPA 5030 (purge-and-trap)
(2) ANALYZED by CAL DHS DRAFT TPH (modified) and EPA 8260 (GC/MS)

12/17/91
MSD1
MC/jaj/mcc/whh

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.
Marissa Coronel
Marissa Coronel
Laboratory Director

**COAST-TO-
COAST
ANALYTICAL
SERVICES**

Air, Water & Hazardous Waste Sampling, Analysis & Consultation
Certified Hazardous Waste, Chemistry, Bacteriology & Bioassay Laboratories

San Luis Obispo, CA • Goleta, CA • Benicia, CA • Camarillo, CA • Newport Beach, CA • Valparaiso, IN

Santa Barbara Division
751 S. Kellogg, Goleta, California 93117

(805) 964-7838
FAX (805) 967-4386

CLIENT: Coast-to-Coast Analytical Services, Inc.

Analyzed : 12/16/91
Analyzed by: MM
Method : As Listed

**QC MATRIX SPIKE
REPORT OF ANALYTICAL RESULTS**

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED		
MATRIX SPIKE	Aqueous				
CONSTITUENT	ORIGINAL RESULT	SPIKE AMOUNT	RESULT ppb	REC	NOTE
TOTAL PURGEABLE PETROLEUM HYDROCARBONS					1,2
Total Petroleum Hydrocarbons (Gasoline)	ND	150.	140.	93.	

Santa Barbara Division is certified by CA Department of Health Services: ELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) EXTRACTED by EPA 5030 (purge-and-trap)

(2) ANALYZED by CAL DHS DRAFT TPH (modified) and EPA 8260 (GC/MS)

12/17/91
MSD1
MC/jaj/mcc/whh
GE2588-1

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.

Marissa Coronea
Marissa Coronea
Laboratory Director



SP - EvS

CHAIN-OF-CUSTODY RECORD

No. 10147

SP - Environmental Systems, Inc. • 9719 Lincoln Village Drive, Ste. 310 • Sacramento, CA 95827 • Phone 916-369-8971 • FAX 916-369-8370

PROJECT NAME		PROJECT LOCATION		ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)					
Carpinteria CA		Carpinteria							
PROJECT NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.							
05149	ANA Natta	916-369-8971							
CLIENT REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR		NUMBER OF CONTAINERS	REMARKS				
SPICO		Todd Hook							
ITEM NO.	SAMPLE NUMBER	DATE	TIME			COMP	GRAB	SAMPLE LOCATION (INCLUDE MATRIX AND POINT OF SAMPLE)	ANALYSIS DESIRED
1	13174	10/1/91	1240				X	Well #2. Groundwater	3 VOA Vials
2	13178	10/1/91	1145				X	Well #1. Groundwater	3 VOA Vials
3	15542	10/1/91	1115				X	Well #3 Groundwater	3 VOA Vials
4									
5									
6									
7									
8									
9									
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-3	Mark Barros	Vicki Schmeide	10/1/91	1540	Standard turnaround time
2						
3						
4						

THANKS

SAMPLER'S NAME: Mark Barros

SAMPLER'S SIGNATURE: [Signature]

SANTA BARBARA COUNTY

HAZARDOUS MATERIAL SMU/LUFT PROGRAM

CONTACT REPORT

DATE: 1/6/92 TIME: 11:06 A.M.

NAME OF PERSON: Ana Nathe TITLE: _____

COMPANY OR AGENCY: S. P. Environmental Systems

SITE: SMU ☐ LUFT ☒ ADDRESS: 399 LINDEN

PHONE: (916) 861-8971 TYPE OF CONTACT: OFFICE ☐ PHONE ☒ FIELD ☐ OTHER: _____

SUBJECT: No results from monitoring wells.

SUMMARY OF DISCUSSION: _____

Ms. Ana Nathe called to state that the lab analysis from the sampling on 12/11/91 were all non-detected. This information would be sent in a report.

Also of concern were the requirements from SBCLP on the soil disposal. Ms. Nathe stated that Regional Water Control Board for the Ventura region would not issue a letter of approval for the removal and treatment of the soil, if conditions were not existing guidelines then the RWQCB did not have an issue.

Ms. Nathe also requested G.W. sampling the first part of Feb for the quarterly report.

REPORTED BY: Richard Evans

HAZARDOUS MATERIAL SMU/LUFT PROGRAM

CONTACT REPORT

DATE: 12/11/91 TIME: 3:00NAME OF PERSON: Ana Natho TITLE: _____COMPANY OR AGENCY: S. P. Environmental SystemsSITE SMU ☐ LUFT ☒ ADDRESS: 399 LINDEN, CarpinteriaPHONE: (916) 369-8971 TYPE OF CONTACT: OFFICE ☐ PHONE ☒ FIELD ☐ OTHER _____SUBJECT: Summary of field activities

SUMMARY OF DISCUSSION: _____

Ms. Natho called to inquire about the sampling that was done at the site today (12/11/91). She was told that all procedures were followed. Two issues were addressed: 1) correct location of monitoring wells MW-2 and MW-3. (wells caps might've been switched) 2) disposal of purged water stored on site.

REPORTED BY: _____

Richard Evans

County of Santa Barbara
Health Care Services - LUFT Program
Site Investigation Report

Site Name: ORCHARD SERVICE
Site Location: 399 LINDEN, CARPINTERIA
Site No: 50119
Person Contacted: MARK BARROS
Consultant Firm: S.P. Environmental

Date: 12/1/91
Arrival: 10:50
Departure: 1:00
Phone: _____
Phone: _____

Estimated depth to groundwater: 8.8 ft BGS
Type of hazardous substance released: SHODDARD

Field Screening Equipment:
- Consultant WATER LEVEL METER, EC meter
- LUFT _____

Purpose of Inspection:
WITNESS H₂O SAMPLING

RP Samples Taken
☒ H₂O _____ Soil

HCl preserved

Analysis:
COAST TO COAST
EPA 8240

RP Laboratory:

LUFT Samples Taken
____ H₂O _____ Soil

Analysis:

Field Observations / Comments:

Wells MW-1 and MW-3 were purged before sampled. Met w/ Mark Barros who showed me data on purged wells & EC meter. Witnessed sampling of wells, sample slabs on all 46 ml vials, sample placed in cooler with ice, New bailer on each well.

Note: MAP locations different from well caps
NOTE: Purged H₂O was placed in a 55 gallon drum that was placed on site. Oil stained. Mr. Barros was informed that the drum became S.P. property and would have to be properly disposed of. The drum was empty no labels. Drum located on east side of fenced area. Will be moved on site

Investigated By: Richard E. [Signature] Date: 12/11/91

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—

LOS ANGELES REGION

101 CENTRE PLAZA DRIVE

MONTEREY PARK, CA 91754-2156

(213) 266-7500



November 14, 1991

Mike Adamske
Venvirotek
1536 Eastman Avenue, Suite A
Ventura, CA 93003

PROCESSING SO₂ SCRUBBER WASTE AT BAILLARD LANDFILL PER THIS BOARD'S
ORDER NO. 88-066 (FILE NO. 84-33)

Reference is made to your letter dated August 14, 1991, which requested permission to process SO₂ scrubber waste from oilfield and gas production facilities. Your letter also included laboratory analyses of unprocessed and processed material from the demonstration project which we approved by our letter dated June 12, 1991.

Based upon review of your initial analyses, it was determined that detection limits used for volatile organic compounds (VOC) were too high and you were asked to resubmit VOC analyses using lower detection limits. On October 25, 1991, we received your new analytical data.

We have reviewed these data and determined that, in accordance with Section A.3. of this Board's Order 88-066, such scrubber waste may be processed at your facility located at the Bailard Landfill provided that the analyses included in your letter and subsequent submittal are representative of the waste stream to be treated by the Chemfix process. In accordance with Sections B.1 and B.3 of this same Order, the treated SO₂ scrubber waste (Chemfix material) may be used as daily cover at Bailard Landfill provided moisture does not exceed 50% as specified in Section B.2. of this Order. Also, as stated in Section II. (9.) of Monitoring and Reporting Program No. 6689, "All analytical results and dates the samples were taken and analyzed during the quarter," shall be submitted to this Board.

If you have any questions, please call Rod Nelson at (213) 266-7548.

Robert P. Ghirelli

ROBERT P. GHIRELLI, D.Env.
Executive Officer

RECEIVED

FEB 7 1992

**Santa Barbara County
Environmental Health Services**

HAZARDOUS MATERIAL SMU/LUFT PROGRAM

CONTACT REPORT

DATE: 11/25/91 TIME: 1:20NAME OF PERSON: TOD HOOK TITLE: _____COMPANY OR AGENCY: S. P EnvironmentalSITE SMU ☐ LUFT ☒ ADDRESS: _____PHONE: (916) 369-8971 TYPE OF CONTACT: OFFICE ☐ PHONE ☒ FIELD ☐ OTHER: _____SUBJECT: 399 LINDELL, Carpinteria, CA

SUMMARY OF DISCUSSION: _____

Return call to TOD HOOKS → Mr. Hooks was informed that VenVroteck's Discharge Requirements (dated 7/15/88) that the executive officer for LARWOCB must approve the treatment & disposal. He was informed that a letter prior to hauling it to VenVroteck. He was also informed that G/W monitoring of all three wells would be required before closure. It was agreed to that at least 2 quarters of U.D. or below action levels would be required before closure.

REPORTED BY: _____

OFFICE MEMORANDUM

To Richard EvansDate 11-22-91From Kathleen SnelkaIn re 399 Linden - Soil Disposal

- 1) As stated in VanVleet's Discharge Requirements (dated July 15, 88), the only way contaminated soils can be accepted for treatment is if the Executive Officer (of the LA RWQCB) approves of it. See page 4 #3 (I've flagged it for you). Therefore, we need to write them ^(SPRA) & notify them of our requirement to get approval in writing prior to hauling it to VanVleet. Once the LA Board agrees (in writing) we can approve it.
- 2) Regarding the Stoddard; they have removed the source (i.e. contaminated soil) but we don't agree that there may be no impact on GW. The other high Stoddard sample (10/31/90, N wall 10' logs 2800 ppm Stoddard) was near where

ORAL messages waste your time and the time of the other person; they often cause annoying interruptions and are apt to be misunderstood or forgotten. Put it in writing. →

the gw sample was taken. We need at least a couple quarters of gw sampling (all 3 wells) to see if an impact has been made on the gw. (Especially since we have only 1 sample of the gw from each well, to date).



HAZARDOUS MATERIAL SMU/LUFT PROGRAM

CONTACT REPORT

DATE: 11/18/91 TIME: 8:30 AMNAME OF PERSON: TOD HOCK TITLE: _____COMPANY OR AGENCY: S. P. Environmental SystemsSITE: SMU ☐ LUFT ☒ ADDRESS: 9719 LINCOLN VILLAGE DRIVE, SUITE 310PHONE: (416) 369-8871 (TYPE OF CONTACT: OFFICE ☐ PHONE ☒ FIELD ☐ OTHER: _____)SUBJECT: 399 LINDEN, Carpinteria

SUMMARY OF DISCUSSION: _____

Return call to Mr. Tod Hock of S. P. Environmental Systems concerning the site at 399 Linden, Carpinteria. Mr. Hock had two questions: (1) Status of the site assessment and (2) disposal of the soil on site. Mr. Tod Hock was informed that the site assessment was under review, and a letter would be written the week of 11/18/91 giving a status and that if ~~SB~~ S. P. Environmental requested ~~SMU~~ would again review the disposal of the soil at the Tech facility in Ventura. Mr. Hock said he would forward additional information on the soil disposal this week.

REPORTED BY: _____

A. David Evans



SP ENVIRONMENTAL SYSTEMS, INC.

9719 LINCOLN VILLAGE DR., SUITE 310 SACRAMENTO, CA 95827 (916) 369-8971 FAX (916) 369-8370

October 29, 1991

VIA FACSIMILE

Mr. Richard Evans
Hazardous Materials Specialist
County of Santa Barbara
Environmental Health Services
5540 Ekwil Street, Suite B
Santa Barbara, California 93111

**SUBJECT: Status Update
 Southern Pacific Transportation Company
 399 Linden Avenue
 Carpinteria, California
 SBCLP Site # 50119
 SPEvS Project No. 05149**

Dear Mr. Evans:

SP Environmental Systems, Inc. (SPEvS), agent for the Southern Pacific Transportation Company (STPCo) in environmental matters, does hereby submit a status update regarding the stockpiled soil at the above-referenced site.

SPEvS previously submitted a disposal plan to the Santa Barbara County Health Services LUFT Program (SBCLP) which involved transporting the non-hazardous material to the VenVirotek facility in Ventura County where the material would be stabilized by using the Chemfix process, and ultimately used as daily cover at the Ventura County Landfill. The SBCLP, in a letter dated August 22, 1991, did not concur with SPEvS' planned disposal option, and requested that an alternative treatment/disposal option be proposed.

Since that time, SPEvS has been researching alternative treatment/disposal options that have unit treatment/disposal costs similar to the VenVirotek option. SPEvS has not yet determined a more cost-effective method; however, SPEvS will notify the SBCLP upon determination of the final treatment/disposal option.

If you have any questions or comments regarding this update, please call me at (916)369-8971.

Sincerely,

Ana Nathe
Assistant Project Manager

AMN/amn

Status Update/05149STS.RPT/AMNDISK3

RECEIVED

OCT 31 1991

**Santa Barbara County
Environmental Health Services**

Mr. Richard Evans
SBCLP
October 29, 1991
Page 2

cc: John Moe, SPTCo Environmental Department
Doug Wubbena, SPTCo Real Estate Department

RECEIVED

OCT 31 1991

**Santa Barbara County
Environmental Health Services**

OFFICE MEMORANDUM

To Rich / File Date 8-22-91
From Kate In re 399 Linden

I agree w/ your 8/15/91 letter, & have a couple suggestions. If their July 15, 91 Rpt has not been responded to, I'd include response in this letter. As such, I think they need to be made aware of the standard issue & the need for further work in this area (ie groundwater).

ORAL messages waste your time and the time of the other person; they often cause annoying interruptions and are apt to be misunderstood or forgotten. Put it in writing.

OFFICE MEMORANDUM

To

File

Date

8/15/91

From

Richard Evans

In re

399 Linden Av

Ana Nathe

(916) 369-8971

Return call to Ana Nathe → Wants to know the status of the remediation proposal. She stated that the soil will be taken to Ventura County for treatment & will be used as backfill in Ventura County near Santa Barbara

Richard Evans

ORAL messages waste your time and the time of the other person; they often cause annoying interruptions and are apt to be misunderstood or forgotten. Put it in writing.

OFFICE MEMORANDUM

To File / Rich Date 7/30/91
From Paul In re 399 Linden / Chemfix

I am not of the opinion that chemical fixation processes have or will have any beneficial effect in reducing organic contaminant migration. These techniques generally result only in either aeration or dilution. I believe DHS is also of this opinion. Should an RP request such a remedial option is should first be approved by DHS Alternative Technologies (contact John Wesnousky)

ORAL messages waste your time and the time of the other person; they often cause annoying interruptions and are apt to be misunderstood or forgotten. Put it in writing.



COUNTY OF SANTA BARBARA • ENVIRONMENTAL HEALTH SERVICES

5540 EKWILL STREET, SUITE B • SANTA BARBARA, CALIFORNIA 93111 • (805) 681-5200

August 22, 1991

Mr. John Moe
Southern Pacific Railroad
One Market Plaza, Room 1007
San Francisco, CA 94105

RE: Additional Site Investigation and Remediation Report
Submittal dated July 15, 1991, ~~199 Linden, Carpinteria, CA~~
~~(Site # 50119)~~

Dear Mr. Moe:

The Santa Barbara County LUFT Environmental Health Services LUFT Program (SBCLP) has received the report dated July 15, 1991, for the above reference site.

After careful review of this report, SBCLP cannot approve your proposed remediation plan. SBCLP is not of the opinion that chemical fixation processes have or will have any beneficial effect in reducing organic contaminant migration. These techniques generally result only in either affixation or dilution. SBCLP believes that the Department of Health Services (DHS) is also of this opinion. Should a responsible party request such a remedial option, it should first be approved by DHS Alternative Technologies.

If you have any questions, please feel free to contact me at (805) 681-4766.

Sincerely,

Richard Evans
Richard Evans
Hazardous Materials Specialist
LUFT Program

RE:dhl

pc: Ms. Ana Nathe, S.P. Environmental Systems, Inc.

50119

BRANCH OFFICES

☐
500 West Foster Rd.
Santa Maria, CA 93455
(805) 934-6223

☐
751-B East Burton Mesa
Lompoc, CA 93436
(805) 737-7744

SANTA BARBARA COUNTY

HAZARDOUS MATERIAL LUFT PROGRAM

OFFICE CONTACT REPORT

DATE 7/15/91

NAME OF PERSON Anna Natche TITLE _____

COMPANY OR AGENCY SP F.W. Systems

ADDRESS _____

PHONE 916/369-8971 TYPE OF CONTACT: OFFICE _____ PHONE X FIELD _____ OTHER _____

SUBJECT 399 Linden, Carp, CA 654-1900

SUMMARY OF DISCUSSION According to Anna,

Tim Downey wants to transport
spoils to Van Dieratek's facility in Ventura
and treat them there. Supposedly, they
have RWQCB permits to treat TPH-contamin
soils there. I need to discuss permits
and process with Downey, then approve
or disprove removal. Downey also took
samples; need to get results.

REPORTED BY: DL Ammings

SANTA BARBARA COUNTY
HAZARDOUS MATERIAL LUFT PROGRAM

OFFICE CONTACT REPORT

DATE 7/15/91

NAME OF PERSON Tim Dawney TITLE _____

COMPANY OR AGENCY Venturotek _____

ADDRESS _____

PHONE 654-1900 TYPE OF CONTACT: OFFICE _____ PHONE X FIELD _____ OTHER _____

SUBJECT 399 Linden, Carp. CA

SUMMARY OF DISCUSSION _____

Proposes to bring spoils from site to their facility in Ventura and treat/dispose of soil. They (supposedly) have approval from RWQCB, DHS and Vent. landfill to do up to 10,000 ppm TPH. I outlined our reservations about Chemfix; they are to send us more info and we'll take proposal under advisement.

REPORTED BY: _____

J. Cummings



COUNTY OF SANTA BARBARA • ENVIRONMENTAL HEALTH SERVICES

5540 EKWILL STREET, SUITE B • SANTA BARBARA, CALIFORNIA 93111 • (805) 681-5200

July 3, 1991

Ms. Mercy Parker
SP Environmental Systems, Inc.
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

RE: **399 Linden, Carpinteria, CA (Site # 50119)**

Dear Ms. Parker:

The Santa Barbara County LUFT Program (SBCLP) has received and reviewed the remediation proposal for the excavation spoils located at 399 Linden. Your request to use the Chemfix method to treat the spoils is denied for the following reasons:

1. The information you have provided does not contain clear evidence that the Chemfix method is successfully proven to immobilize petroleum hydrocarbons in soil. The sites in Santa Barbara County where Chemfix was approved for remediation purposes, contained metals, not petroleum hydrocarbons. Based on this, SBCLP does not believe Chemfix will be successful in remediating the spoils piles at 399 Linden.
2. The process of applying the Chemfix reagents will allow aeration of the spoils to occur. Considering the large size of the spoils piles and the close proximity of a school, aeration is not feasible for this site.

Therefore, SBCLP is requiring you to submit another proposal for treatment and/or disposal of the spoils piles located at this site. Prior to submission of a proposal, however, it would be prudent for you to sample and analyze the spoils piles to determine the contaminant levels they contain. This will aid you in determining the best treatment/disposal method. Please submit a work plan for sampling these piles by **July 11, 1991.**

If you have any questions regarding this matter, you may contact me at (805) 681-4778.

Sincerely,

Deanna L. Cummings
Hazardous Materials Specialist
LUFT Program

dhl

BRANCH OFFICES



500 West Foster Rd.
Santa Maria, CA 93455
(805) 934-6223



751-B East Burton Mesa
Lompoc, CA 93436
(805) 737-7744

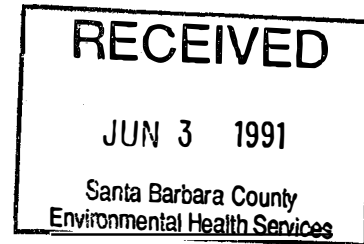


SP ENVIRONMENTAL SYSTEMS, INC.

9719 LINCOLN VILLAGE DR., SUITE 310 SACRAMENTO, CA 95827 (916) 369-8971 FAX (916) 369-8370

May 31, 1991

Deanna Cummings
County of Santa Barbara
Department of Environmental Health Services
5540 Ekwill Street, Suite B
Santa Barbara, California 93111



Subject: Carpenteria Soil Remediation
Southern Pacific Transportation Company Property
399 Linden Avenue, Carpenteria, California
SPEvS Project No. 05149

Dear Ms. Cummings:

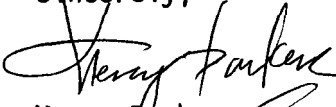
In a phone conversation on May 21, 1991 with Ana Nathe, the disposition of the stockpiled soil in Carpenteria at the above-referenced site was discussed. SP Environmental Systems, Inc. (SPEvS) plans to have the stockpiled soil chemically fixed by VenVirotek, Inc. using the Chemfix process, which will immobilize the petroleum hydrocarbons; afterwhich, the treated soil will be transported to a Class III landfill for re-use as daily cover. The procedures to be followed are described below:

1. A VenVirotek representative will visit the site to assess whether there is sufficient area available to accommodate the on-site treatment of the stockpiled soil. At that time, a sample of the soil will be retrieved and bench-scale testing will be performed to reagent concentrations to insure that the treated material will meet the specifications for re-use as daily cover at a Class III landfill.
2. The project will begin with the spreading of the stockpiled soil over an area large enough to accommodate the treatment process. During the spreading of the soil, a fine water spray will be applied to control dust that might otherwise migrate from the project site.
3. Once the soil is spread to a specified lift height, proprietary reagents will be added to the soil to achieve the reagent concentrations established in the bench-scale test. During the application of the reagents water spray will once again be applied to control the migration of dust.
4. Once the reagents are applied to the soil, mixing equipment will be utilized to mix the reagents with the soil. Once again, a fine water spray will be applied to facilitate the chemical reaction and to control fugitive dust migration.

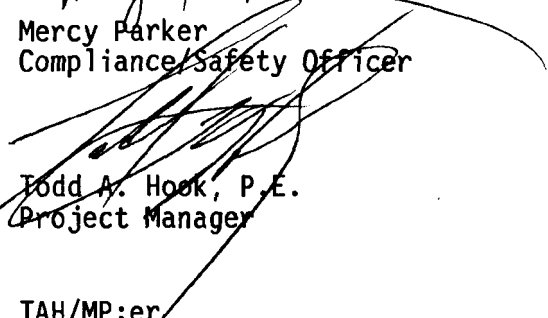
5. Upon completion of the reagent application, the mixed material will be allowed to cure for seven to ten days. Testing will be performed during this time to assess whether additional mixing is necessary to assist with the curing process.
6. At the end of the curing period, further testing will be performed to confirm that the treated material meets the specified standards for re-use as daily cover at the landfill.
7. Upon completion of the testing, the re-usable material will be loaded and transported to a Class III landfill for re-use as daily cover. VenVirotek has an existing contract with a Class III landfill in Ventura County that accepts the treated material for use as daily cover.
8. Upon arrival at the landfill, the treated material will be weighed to determine the total amount of material treated during the project. For the purpose of billing, the volume of reagent added to the waste will be verified and deducted from the total volume delivered to the landfill.
9. A final report will be prepared outlining the project steps and the final disposition of the treated material, in order to close this site.

For additional information regarding VenVirotek and the Chemfix process, please refer to the enclosed information packet. Please feel free to contact Mercy Parker at (916)369-8971 if you have any questions regarding this workplan.

Sincerely,



Mercy Parker
Compliance/Safety Officer



Todd A. Hook, P.E.
Project Manager

TAH/MP:er

Enclosure

cc: John Moe
Doug Wubbena



FILE COPY

COUNTY OF SANTA BARBARA • ENVIRONMENTAL HEALTH SERVICES

5540 EKWILL STREET, SUITE B • SANTA BARBARA, CALIFORNIA 93111 • (805) 681-5200

March 29, 1991

Ms. Elizabeth Gillis
SP Environmental Systems, Inc.
9719 Lincoln Drive, Suite 310
Sacramento, CA 95827

Dear Ms. Gillis:

Subject: Orchard Services, 399 Linden Avenue, Carpinteria, CA
(Site # 50119)

The Santa Barbara LUFT Program (SBCLP) has received the request for extension dated January 21, 1991, and work plan for additional site assessment dated February 11, 1991, for the above referenced site. After careful review of this report, we approve your proposal with the following condition(s):

An inspector from SBCLP must be present during site work. please call forty-eight (48) hours in advance, to schedule an appointment.

If you have any questions regarding this matter please contact the undersigned at (805) 681-4752.

Very truly yours,

Richard A. Stedman
LUFT/HAZ Mat Supervisor

Kate Sulka

Kate Sulka
LUFT Senior Specialist

KS:ck

BRANCH OFFICES



500 West Foster Rd.
Santa Maria, CA 93455
(805) 934-6223



751-B East Burton Mesa
Lompoc, CA 93436
(805) 737-7744

SITE LOG

DATE	WORK CARRIED OUT
7/25/90	R. EVANS and P. MEISCH visited the site to discuss the extent of contamination and methods of remediation. Ms. Liz Gillis, SP Environmental was on site and indicated that extra excavation would be the method that would be pursued. Ms. Liz Gillis was encouraged to delineate the extent of contamination before excavating the soils. She stated that SP is concerned with remediating the site as quickly as possible and would like to excavate instead of assess at this time.
9/17/90	Call to Liz Gillis LINTCB w/ sec.
10/22/90	Went to site based on message from Richard Evans that site work was going on. No drilling or excavating was taking place, however both buildings on site had been demolished.
1-3-91	Call from Anna Natha - left msg 3:51
- 4:16	Call Back from Anna - She spoke w/ Richard Stedman. Richard stated if remove to < 100 ppm okay to leave on-site - Resample gw for TPH.
	Will trench to 8' more towards building and haul soil.
	Work plan to be submitted to EHS (simple one addressing issues in 12/21/90 letter)

OFFICE MEMORANDUM

To Kate Date 1/2/91
From Pich In re _____

Please call Ana Aracy, SP ENV.

RE: 399 Linden Ave, Carp.

(916) 369-8971

ORAL messages waste your time and the time of the other person; they often cause annoying interruptions and are apt to be misunderstood or forgotten. Put it in writing.

PA-103A



FILE COPY

COUNTY OF SANTA BARBARA • ENVIRONMENTAL HEALTH SERVICES

5540 EKWILL STREET, SUITE B • SANTA BARBARA, CALIFORNIA 93111 • (805) 881-5200

December 21, 1990

Elizabeth Gillis
SP Environmental Systems, Inc.
9719 Lincoln Village Drive, Suite 310
Sacramento, CA 95827

Dear Ms. Gillis:

Subject: Orchard Services, 399 Linden Avenue, Carpinteria CA
(Site No. 50119)

The Santa Barbara County Environmental Health Services LUFT Program (SBCLP) has received the Site Investigation and Remediation report dated November 21, 1990, for the above referenced site.

After careful review of this report, we cannot approve your recommendations for no further action at this time. The following information is required:

- 1) Due to the high concentrations of stoddard solvent in the north wall at 10' below the ground surface, the full extent of soil contamination has not been defined.

The test boring was taken below the clay layer at 11.5 feet below the ground surface but was not tested for TPH as, stoddard solvent. Therefore this boring does not delineate the eastern extent of soil contamination.

- 2) Abandonment of the monitoring wells can not be approved at this time due to the potential need for tracking the movement of contamination on and/or off site.
- 3) Clarification is also required for the location of the underground storage tank removed during the October excavating. Please submit a receipt and/or manifest for the disposal site.

Submittal of receipt/manifest for the soils removed and taken to McKittrick is also requested.

BRANCH OFFICES



500 West Foster Rd.
Santa Maria, CA 93455
(805) 934-6223



751-B East Burton Mesa
Lompoc, CA 93436
(805) 737-7744

Ms. Elizabeth Gillis
December 21, 1990
Page 2

Please submit a complete workplan and sampling plan for additional site assessment by January 21, 1991.

All monitoring wells shall be constructed and abandoned according to the standards found in California Code of Regulations Title 23, Section 2647 and 2648, and County Ordinance Number 3458. Permits shall be obtained from the SBCLP prior to starting work or destruction of wells.

All work shall be performed per the guidelines found in the State LUFT Manual (October 1989 editions) and SBCLP requirements.

If you any questions regarding this matter please contact, Kate Sulka at (805) 681-4752.

Very truly yours,

Richard A. Stedman
LUFT/Haz. Mat. Supervisor

Kate Sulka

Kate Sulka
Senior Specialist
LUFT Program

KS:jl

12-17-90

399 Linden - Site Investigation + Remediation Report Nov. 26, 90

Questions:

- Current location of UST removed during Oct. excavation?
- Receipts/manifests for removed soils taken to McKinnell
- - - - - (425 cu yds)

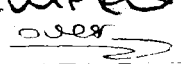
* 4200 ppm TPH/solvent at 10' Sample #11888 - Action needed?
i.e., delineation of E-W extent?

* The MW installed by ERM-West in Oct '89 had 77 ppb of TPH - MW is now abandoned -

All 3 current MW have ND for Nov 1990 sampling -
should we have another round of samples to see if ERM's well was an anomaly or what?

Kate

I find it interesting that the test boring sample (Table 3) was taken below the clay layer @ 11.5' bgs. This sample was not tested for TPH as standard solvent but rather TPH gasoline.

Therefore, this boring does not delineate eastern extent of soil contamination ^{over} 

Due to the possibility of leaving contamination in place - the MUs should not be abandoned.

Recommendation

Due to high conc of standard solvent the full extent of soil contamination must be defined. Once this is completed WET can respond to the remedial action / no action question.

Paul:

Pls Review - They want NFA (no further action) but my concerns are * on my notes - What'd ya think? Close the site or 4/4 monitoring + delineate further?

KEG



FILE COPY

COUNTY OF SANTA BARBARA • ENVIRONMENTAL HEALTH SERVICES

5540 EKWILL STREET, SUITE B • SANTA BARBARA, CALIFORNIA 93111 • (805) 681-5200

October 3, 1990

Elizabeth Gillis
SP Environmental System, Inc.
9719 Lincoln Village Drive, Suite 310
Sacramento, CA 95827

Site Location: Orchard Services, 399 Linden Avenue, Carpinteria,
California (Site No. 50119)

Dear Ms. Gillis:

The County of Santa Barbara, Environmental Health Services LUFT Program has received the letter dated Septemeber 18, 1990, for the above-referenced site.

After careful review of this letter, SBCLP concurs with the request not to screen the wells across the two zones.

An inspector from the LUFT Program must be present during site work. Please call forty-eight (48) hours in advance, to schedule an appointment. South County call (805) 681-5200.

All monitoring wells shall be constructed according to the standards found in California Code of Regulations Title 23, Section 2647 and 2648, and County Ordinance Number 3458. Permits shall be obtained from the SBCLP prior to starting work or destruction of wells.

If you have any questions regarding this matter please contact, Richard Evans at (805) 681-5200.

Very truly yours,

Richard A. Stedman
LUFT Program Supervisor

Leif Reproble for Richard Evans

Richard Evans
Hazardous Materials Specialist
LUFT Program

RE/jl
RE-124

BRANCH OFFICES

☐
500 West Foster Rd.
Santa Maria, CA 93455
(805) 934-6223

☐
751-B East Burton Mesa
Lompoc, CA 93436
(805) 737-7744



SP ENVIRONMENTAL SYSTEMS, INC.

9719 LINCOLN VILLAGE DR. SUITE 310 SACRAMENTO, CA 95827 (916) 369-8971 FAX (916) 369-8370

September 18, 1990

Richard Evans
LUST Program
Santa Barbara County
Environmental Health Services
315 Camino Del Remedio
Santa Barbara, Ca 93110

**SUBJECT: Phase II Site Remediation
Orchard Services
399 Linden Avenue
Carpinteria, CA
SPEvS Job No. 05149**

Dear Mr. Evans,

In response to your telephone call on August 29, 1990, SP Environmental Systems, Inc. (SPEvS) offers the following additional information on the revised workplan submitted on August 14, 1990. The revised workplan included the excavation of contaminated soil and the installation of three monitoring wells on the above referenced site where two small underground tanks had previously been removed.

Enclosed is a site map showing the proposed locations of the two additional monitoring wells, as you requested. These wells are located to provide information on groundwater direction and groundwater quality, both upgradient and downgradient of the tank site.

SPEvS has reviewed the information available on the site to determine the appropriate screening interval for the wells. There is limited and sometimes conflicting information on the hydrogeological conditions at the site. SPEvS would like to determine well depths and screening intervals in the field based on the actual conditions observed in during drilling.

ERM West states in their November 1989 Site Assessment Report that they encountered groundwater at approximately 18 feet below grade, and the water level subsequently rose in the well to approximately 9 feet below grade.

When digging at the site, SPEvS observed waterseeping into the excavation when the excavation was approximately six feet deep. This water appeared to be influenced by tidal action. The water was found at the interface of an upper layer of sandy soil and the lower clay layer. It is believed that soil contamination is currently confined to the upper six feet of sandy soil and does not penetrate the clay zone.

SPEvS believes, from the data currently available, that there may be shallow

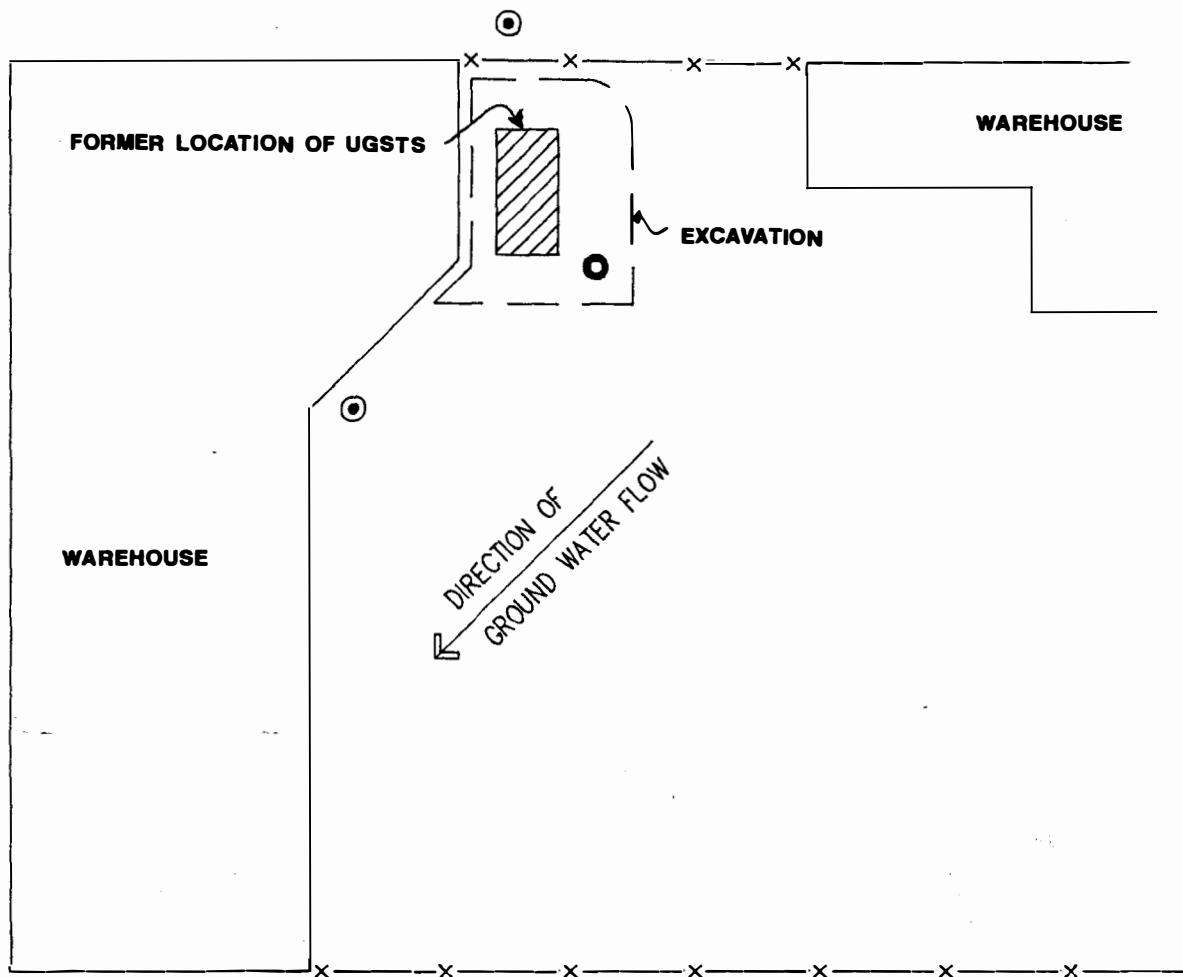
September 18, 1990
Page 2

water that is a result of surface percolation and tidal forces. The groundwater encountered a 18 feet by ERM West, may be a different zone, and is partially confined (and protected) by the clay layer. SPEvS does not want to screen wells across the two zones, thereby introducing a mechanism whereby cross contamination could occur.

In accordance with the previously submitted workplan, pilot boreholes will be installed to observe subsurface conditions, prior to installing any wells. Santa Barbara County will be consulted concerning well depth and screening intervals prior to the installation of any wells.


Elizabeth Gillis
Project Manager

cc: Joan Herida, Santa Barbara County APCD
Mike Collier, SPTCo Real Estate



⊙ PROPOSED WELL LOCATIONS

● EXISTING WELL LOCATIONS



**SP ENVIRONMENTAL
SYSTEMS**

PROJECT NO. 05149

DATE: 9-17-90

DRAWN BY: EG

CHECKED BY:

**PROPOSED MONITORING
WELL LOCATIONS**

FIGURE

NTS
SCALE

RECEIVED
SEP 26 1990
Santa Barbara County
Environmental Health Services



SP ENVIRONMENTAL SYSTEMS, INC.

9719 LINCOLN VILLAGE DR., SUITE 310 SACRAMENTO, CA 95827 (916) 369-8971 FAX (916) 369-8370

August 16, 1990

Richard Evans
LUST Program
Santa Barbara County
Environmental Health Services
315 Camino Del Remedio
Santa Barbara, Ca 93110

SUBJECT: Phase II Site Remediation
Orchard Services
399 Linden Avenue
Carpinteria, CA
SPEvS Job No. 05149

Dear Mr. Evans,

On July 23 through July 25, SP Environmental Systems, Inc (SPEvS) initiated site remediation activities based on an approved workplan submitted on June 1, 1990. The workplan included the excavation of contaminated soil and the installation of a down gradient well on the above referenced site where two small underground tanks had previously been removed.

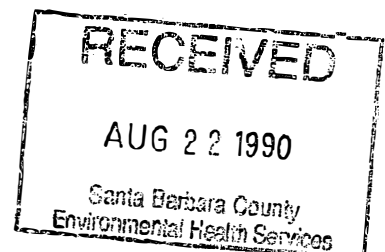
After excavating approximately 150 cubic yards of contaminated soil it was apparent that the amount of contaminated soil was greater than originally anticipated. After discussions with the LUST program engineer, it was agreed that work would be discontinued and the workplan would be revised to reflect our new understanding of the site's conditions.

This submittal contains a revised workplan based on the observations made in the field during excavation activities. This workplan also contains a discussion of the information gathered during the field work, including laboratory results.

It is intended that this submittal fulfill the quarterly reporting requirement for the third quarter of 1990. SPEvS' will await your comments on the workplan prior to the initiation of any activities.

Elizabeth Gillis
Project Manager

cc: Joan Herida, Santa Barbara County APCD
Mike Collier



- Need site map w/ MW locations

- Must screen thru ▽ - previous
MW had GW @ 9' bgs

↳ screen feeling
subsurface
rising water table

→ will provide written explanation

SITE LOG

DATE	WORK CARRIED OUT
5/30/90	Call from Elizabeth Gillis, SP Environmental Systems concerning monitoring well requirement for the site. She stated that LAB analysis would be submitted to SCLP to determine if additional monitoring wells would be required. She stated that the site would be remediated by removing the contaminated soil.
6/30/90	FAXED WELL DESTRUCTION REQUIREMENTS & SCLP CLEANUP LEVELS. TO E. GILLIS,
7/15/90	Call from Liz Gillis SP Environmental LMTCB
7/16/90	Return call to Liz Gillis - She scheduled work at the site for 7/23/90

FILE COPY



COUNTY OF SANTA BARBARA • HEALTH CARE SERVICES

300 San Antonio Road • Santa Barbara, California 93110 • (805) 681-4200

FAX Number (805) 681-5191

LAWRENCE HART, M.D., F.A.C.P.M.
DIRECTOR AND HEALTH OFFICER

June 29, 1990

Elizabeth Gillis
S.P. Environmental Systems
9719 Lincoln Village Drive, Suite 310
Sacramento, CA 95825

Site No. 50119

Site Location: 399 Linden Avenue, Carpinteria, California

Dear Mr. Gillis:

The Santa Barbara LUFT Program (SBCLP) has received the report, Phase II Site Remediation dated June 18, 1990 for the above-referenced site.

After careful review of this report, we approve your proposal with the following condition(s):

1. An inspector from SBCLP must be present during site work. Please call forty-eight (48) hours in advance, to schedule an appointment. South County call (805) 681-5200.

All monitoring wells shall be constructed according to the standards found in California Code of Regulations Title 23, Section 2647 and 2648, and County Ordinance Number 3458. Permits shall be obtained from the SBCLP prior to starting work or destruction of wells.

If you have any questions regarding this matter please contact, Richard Evans at (805) 681-5200.

Very truly yours, -

Richard A. Stedman
LUFT Program Supervisor

Richard Evans
LUFT Specialist

RE:sa

cc: John Moe, Southern Pacific Railroad

RE-77



COUNTY OF SANTA BARBARA • HEALTH CARE SERVICES

300 San Antonio Road • Santa Barbara, California 93110 • (805) 681-4200

FAX Number (805) 681-5191

LAWRENCE HART, M.D., F.A.C.P.M.
DIRECTOR AND HEALTH OFFICER

June 22, 1990

Mr. John Moe
Southern Pacific Railroad
1 Market Plaza, Room 1007
San Francisco, CA 94105

Site No. 50119

Site Address: 399 Linden, Carpinteria, California

Please be advised that quarterly reporting is required for all sites where unauthorized releases of hazardous substances from underground storage tanks have occurred. [California Codes of Regulations, Title 23, Section 2652(d)]. These reports are to be submitted every three (3) months until the LUFT site has been officially closed. The reports are to include quarterly water level measurements, sampling results, and any additional site work or activity performed during the quarter. All quarterly reports will be due on the following schedule:

January 20th
April 20th
July 20th
October 20th

All written correspondence should be sent to:

County of Santa Barbara
Leaking Underground Fuel Tank Program
5540 Ekwill, Suite B
Santa Barbara, California 93111

Attn: Richard Evans, LUFT Specialist

Project	SP-Carpinteria	Owner	Southern Pacific
Location	Carpinteria - CMT	Project Number	847
Well Number	W-2	Boring Number	
Total Depth	25'	Diameter	2"
Drilling Company	Spectrum	Drilling Method	BSA
Driller	Garry/Darren	Log By	KAR
		Date Drilled	10/25/89
Begin Drilling	13:10	Finish Drilling	14:00

Sketch Map

Not to Scale

Depth (feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Consistency, moisture, color, odor, staining, etc.)
0				Surface: compacted soil and gravel
1				
2				SAND, silty, very loose, medium fine to very fine grained, dark brown, dry, micaceous, ~5% mafic
3				
4				CLAY, sandy, soft, plastic, dark gray to black, moist
5			13:20	
6			NR	CLAY, sandy, soft, plastic, medium gray, moist, mild hydrocarbon (?) odor
7			10/25/89	
8				
9				
10			13:25	
11			NR	SAND, clayey, very fine to fine-grained, slightly plastic, medium loose, moist, no odor
12			10/25/89	

SP ENVIRONMENTAL SYSTEMS, INC.

6719 Lincoln Village Drive, Suite #310

Sacramento, CA 95827

(916) 369-8971

FAX (916) 369-8370

5/30/90

*SCREENED BELOW

WATER TABLE. R.P.

will PROPOSED &

DESTROY this WELL

R. EVANS

FACSIMILE COVER LETTER

Date:

Company Name: SB County LUST

Contact Name: Richard Evans

Fax Number: 805 681 5370

Sender: Gillis

Description: well Data

During drilling gw was encountered @ 18-22'. Erupting
sands were encountered. Potentiometric surface
stabilized ^{at} ~~about~~ ^{~ 9'} below grade. From other well
^{ground} data, water is flowing west-north-west

Number of pages (including cover page):

1

If there are any problems with this transmission, please call

(916) 369-8971 IMMEDIATELY.

This form created by SPG for SP Environmental Sys.

Project <u>SP-Carpinteria</u>	Owner <u>Southern Pacific</u>	Sketch Map
Location <u>Carpinteria - CMT</u>	Project Number <u>847</u>	
Well Number <u>W-2</u>	Boring Number <u> </u>	
Total Depth <u>25'</u>	Diameter <u>2"</u>	
Drilling Company <u>Spectrum</u>	Drilling Method <u>HSA</u>	
Driller <u>Garry/Darren</u>	Log By <u>KAB</u> Date Drilled <u>10/25/89</u>	
Begin Drilling <u>13:10</u>	Finish Drilling <u>14:00</u>	

Depth (feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Consistency, moisture, color, odor, staining, etc.)
12				Water on rod
13				
14			13:35 N.R.	
15				SAND, clayey, very fine to fine-grained, medium loose, wet, -5% mafic grains, micaceous
16				
17				
18				SAND, some silt and clay flowing to surface
19				
20			13:45	
21				SAND, some silt and clay, very loose, flowing to surface, medium brown, wet, no odor, micaceous
22				
23				
24				

SP ENVIRONMENTAL SYSTEMS, INC.

9719 LINCOLN VILLAGE DR. SUITE 310

SACRAMENTO, CA 95827

(916) 369-8971

FAX (916) 369-8370

June 18, 1990

Richard Evans
LUST Program
Santa Barbara County
Environmental Health Services
315 Camino Del Remedio
Santa Barbara, CA 93110

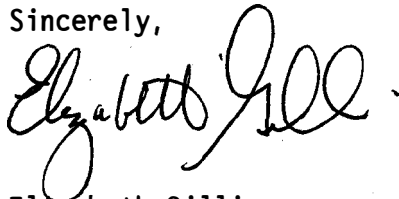
SUBJECT: Phase 2 Site Remediation, Orchard Services
399 Linden Avenue
Carpinteria, California
SPEvS Job No. 05149

Dear Mr. Evans:

Per your request, I have enclosed the workplan for the Phase 2 investigation and cleanup of 399 Linden Avenue, Carpinteria, California. Two underground storage tanks were removed from the site in February and minor contamination was noted.

SPEvS' will await your comments on the workplan prior to the initiation of any activities.

Sincerely,

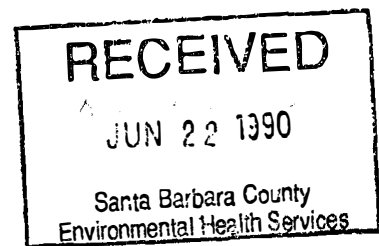


Elizabeth Gillis
Project Manager

EG:ekw

Enclosure

cc: M. Collier



399 LINDEN

SITE LOG

DATE	WORK CARRIED OUT
4/27/90	Call from Liz Gillis of Southern Pacific Environmental. She requested a week extension to submit her Assessment work plan. Aft.
5/1/90	Call from Mike Calderer (213) 780-6909 LMOAM - Southern Pacific Transportation
5/1/90	Return call to Mike Calderer of SP Property mgmt. He explained his legal problems with the site. He requested that we ^{to} notify the Leasee on site to clean up the site. He was told that the property owner is responsible. He requested an extension to work out the details with the Leasee. He was told an extension would be granted for 30 days.
5/17/90	^{from} Call to Mr. Mike Collier of SP Property mgmt. to update SBCIP on the situation of identifying the responsible party for the clean-up
5/22/90	Call from Mike Collier. He was told to proceed with the Assessment work plan.

SITE LOG

[illegible]



LAWRENCE HART, M.D., F.A.C.P.M.
DIRECTOR AND HEALTH OFFICER

COUNTY OF SANTA BARBARA • HEALTH CARE SERVICES

315 CAMINO DEL REMEDIO • SANTA BARBARA, CALIFORNIA 93110 • (805) 681-5200

FILE COPY

March 27, 1990

Elizabeth Gillis
S.P. Environmental Systems, Inc.
9719 Lincoln Village Drive, Suite 310
Sacramento, CA 95827

Site No. 50119

Site Location: 399 Linden Avenue, Carpinteria, California

Dear Ms. Gillis:

The Santa Barbara LUFT Program (SBCLP) has received the report dated March 23, 1990, for the above-referenced site.

After careful review of this report, SBCLP will require a complete assessment of the site to delineating vertical and lateral extent of contamination.

Laboratory analyses required for gasoline in soil and groundwater samples are:

Total Petroleum Hydrocarbons (TPH) using EPA method 8015 with an acceptable method-detection-limit of 10 parts per million (ppm) in soil and 1 ppm in groundwater.

Benzene, toluene, ethylbenzene, and xylene (BTEX) using EPA method 8020/602 or EPA method 624. Acceptable method-detection-limits in soil are benzene to 0.005 ppm; toluene, ethylbenzene, and xylene to the California Department of Health Services' (DOHS) recommended drinking water standards. Acceptable method-detection-limits for groundwater are California DOHS recommended drinking water standards.

Total lead using EPA method 7420/7421, with an acceptable method-detection-limit of 1 ppm in soil and the California DOHS recommended drinking water standard for lead in groundwater.

Soil and groundwater clean-up levels are based upon the State of California, Department of Health Services Recommended Drinking Water Action Levels.

BRANCH OFFICES



500 West Foster Rd.
Santa Maria, CA 93455
(805) 934-6223



751-B East Burton Mesa
Lompoc, CA 93436
(805) 737-7744

Elizabeth Gillis
March 27, 1990
Page 2

All laboratory analyses shall be performed by a California State Certified Laboratory. All sample results should include a copy of the chain of custody form.

Detection limits for soil and groundwater samples shall be below the State drinking water action levels, except Benzene in soil which requires a detection limit of 5ppb (parts per billion). Composite samples are not acceptable.

All monitoring wells shall be constructed according to the standards found in California Code of Regulations Title 23, Section 2647 and 2648, and County Ordinance Number 3458. Permits shall be obtained from the SBCLP prior to starting work or destruction of wells.

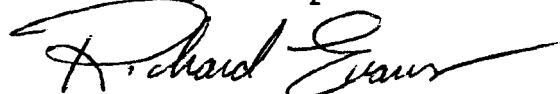
All work shall be performed per the guidelines found in the State LUFT Manual (May 1988 edition) and SBCLP requirements.

Please submit to this office within thirty (30) days a proposed work plan for the assessment of the site.

If you have any questions regarding this matter please contact, Richard Evans at (805) 681-4361.

Very truly yours,

Richard A. Stedman
LUFT Program Supervisor

A handwritten signature in black ink, appearing to read "Richard Evans", written over a horizontal line.

Richard Evans
LUFT Specialist

RE:sa

RE-27

SP ENVIRONMENTAL SYSTEMS, INC.

9719 LINCOLN VILLAGE DR. SUITE 310

SACRAMENTO, CA 95827

(916) 369-8971

FAX (916) 369-8370

March 21, 1990

Santa Barbara County
Environmental Health Services
315 Camino Del Remedio
Santa Barbara, Ca 93110

RECEIVED

MAR 23 1990

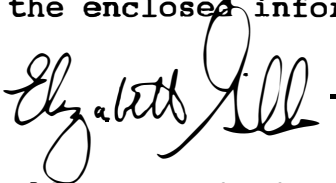
Santa Barbara County
Environmental Health Services

Attention: Richard Evans
Lust Program

Enclosed please find the following information on the underground storage tank removals performed at 399 Linden Avenue, Carpinteria:

- * UGST removal workplan
- * Tank removal report
- * Figure 1- Site Plan with Sampling Locations
- * Table 1- Results of Soil Sampling
- * Original Analytical Results with Chain of Custody Form
- * Unauthorized Release Report

It is SPEvS' understanding that we will be contacted by you concerning the next phase of investigation after you have reviewed the enclosed information.



Elizabeth Gillis
Project Manager

cc: [illegible]

UGST REMOVAL WORK PLAN

1. PURPOSE

The purpose of this work plan is to outline the procedures used during the removal of underground storage tanks (UST) from a Southern Pacific site. The removal of an UST includes the permanent removal of the tank and associated piping (if any), disposal of the tank and piping, and proper backfilling of the excavation.

2. PROCEDURES FOR TANK REMOVAL

- o The UST will be exposed by removing the overlying material (asphalt, concrete, gravel, soil) by means of a backhoe, jackhammer, shovel or other appropriate equipment.
- o Any residual liquid will be removed from the tank by pumping the material into a vacuum truck. This liquid will be transported for either recycling or proper disposal. The tanks will be cleaned by rinsing the tanks with very hot water and pumping the rinsate into the vacuum truck.
- o Prior to pulling the tank from the excavation, the tank will be rendered inert by purging with carbon dioxide. An explosimeter, or LEL meter will be used in the field to determine that the tank is inert. All local regulations governing procedures and inspections will be followed.
- o The tank will be removed from the excavation by means of a backhoe. The tank will be loaded onto a flatbed truck, and transported to a site which is certified to scrap the tanks. A certificate for each tank will be obtained after its destruction to document that the tanks will not be re-used for any purpose other than scrap metal.

3. EXCAVATION SAMPLING PROCEDURES

3.1 Excavation Procedures

Upon removal of each tank, the tank backfill material will be removed from the excavation with the backhoe. The excavation will be visually inspected as well as screened with a Photovac TIP II (a photo-ionization detector) for an indication of soil contamination. If contamination is found to be present, the affected soil will be separated from soil which is deemed clean, and will be either stockpiled on and covered with plastic, or placed in 55-gallon soil drums until receipt of analytical results from soil samples.

Once the extent of obvious contamination has been removed, or if no contamination was found, the native soil beneath either end of the tank will be sampled. If the extent of contamination could not be

removed, then samples would be obtained from the bottom (or sidewalls) of the excavation.

3.2 Sampling Procedures

Upon deciding the sample locations, each sample will be obtained by the following procedures:

- o Native soil from the desired location will be obtained with the backhoe bucket and brought to the ground surface.
- o The top portion of the material will be scraped away with a clean hand trowel to expose undisturbed soil.
- o To obtain a sample, the field technician will drive a clean brass tube into the undisturbed soil with a mallet. (The brass tubes will be cleaned prior to use by washing in a solution of tri-sodium phosphate, rinsing in distilled water, and allowing to air dry.)
- o The sample tube will be removed from the soil and each end will be covered with Teflon sheeting and tight fitting plastic end caps.
- o Each sample will be labeled, logged onto a chain-of-custody, and stored in an iced cooler until delivery to a state certified laboratory.
- o A portion of the soil from the backhoe bucket will be described and screened with a Photovac Tip II (photo-ionization detector), which is calibrated frequently following the manufacturers instructions. The description and TIP reading will be noted in the Field Technician's field notes and will be reported in the site specific report for each tank.

4. EXCAVATION CLOSURE

Upon completion of sample collection, each excavation will be closed by backfilling with either the material removed (if no contamination was indicated), or by backfilling with clean imported fill from an offsite source. The excavations will be compacted as each site as required by local ordinance.

After the excavation has been backfilled, the site will be restored to its original condition. Either asphalt, concrete, or gravel will be replaced, if necessary, and any fencing, etc. removed during construction activities, will be replaced.

5. ANALYTICAL REQUIREMENTS

As a minimum, two samples from the tank excavation will be analyzed for total petroleum hydrocarbons, and benzene, toluene, ethylbenzene, and xylenes, unless otherwise instructed or deemed necessary. Samples will be analyzed by a state certified laboratory on a standard 2-week turn around time.

6. HEALTH AND SAFETY PROCEDURES

At each tank site, the minimum level of protection required for all personnel on site will be:

- o steel toe boots
- o hard hats
- o safety glasses or goggles
- o disposable gloves

The level of protection may be upgraded if field observations and TIP readings deem it to be necessary.

Safe work practices will be followed. The work area will be barricaded so as not to allow the public to have access to the work area. In addition, any excavation left open will be fenced.

A tailgate safety meeting will be given by the field technician with the field crew, in order to assure safe work practices.

SP ENVIRONMENTAL SYSTEMS, INC.
UNDERGROUND STORAGE TANK REMOVAL
CARPINTERIA, CA

GENERAL SITE INFORMATION

1. a) SP Tank Number: 05053-1, 05053-2
 b) State Tank Number: 05
2. Date On Site: Feb 14-16, 1990
3. Facility Name: Orchard Services (lessee)
4. Street Address: 399 Linden Avenue
5. City/State/County: Carpinteria/CA/Santa Barbara
6. Comments: SP determining if leasee is responsible for removal costs.

TANK INFORMATION

1. Diameter: 05053-1: approximately 3 feet
 05053-2: approximately 3 feet
2. Length: 05053-1: approximately 4 feet
 05053-2: approximately 12 feet
3. Tank Capacity (volume): 05053-1 230 gallons
 05053-2 1000 gallons
4. Product Type: gasoline in both tanks
5. Amount of product in tank (if any): less that 10 gallons
 in 05053-1, none in 05053-2.
 - a) Was product pumped?: yes
 - b) If so, destination of product: Kern Vacuum to Gibson Oil
 - c) Comments: tanks were rinsed on site

6. Condition of Tank/Comments: Tanks were estimated to be over 40 years old. Installed by SPTCo. for the lemon packing maintenance operations. Last date on pump certification was 1961. Tanks appeared to be in good condition.

EXCAVATION INFORMATION

1. Length/orientation: 20 feet, E-W
2. Width/orientation: 6 feet, N-S
3. Final excavation depth: 6 feet
4. Visible Contamination?: yes
 - a) Describe extent: still present a 11 feet on west
 - b) Field TIP Reading(s): none taken
5. Soil Description (include type, color, moisture, odor, other):

0-5 feet	fill, dark brown moist	HnU 5-20 ppm (County instrument)
5-9 feet	sandy soil, light color, very moist,	HnU 250-350 ppm (County instrument)
9-11 feet	sandy clay, light brown, slightly moist,	some odor
6. Excavation Backfilled?: yes and compacted to 90% (tested)
 - a) Source of fill material: Santa Barbara Sand and Gravel
7. Is there soil stockpiled?: yes, 30 yards
 - a) Location: next to excavation
8. Additional Work Necessary?: yes
 - a) Explain: stockpiled soil removal/treatment, investigate the extent of contamination (Santa Barbara County has a LUFT program)

LABORATORY INFORMATION

1. Number of samples taken: 4

Sample ID	Sample Location	Analyses
OS-1	9', west end floor	TPH, 8020, lead
OS-2	Stockpile, dark fill	TPH, 8020, lead
OS-3	Stockpile, sandy soil	TPH, lead, 8240
OS-4	4', east end wall	TPH, 8020, lead

2. Performing Laboratory: Coast Laboratories, Goleta

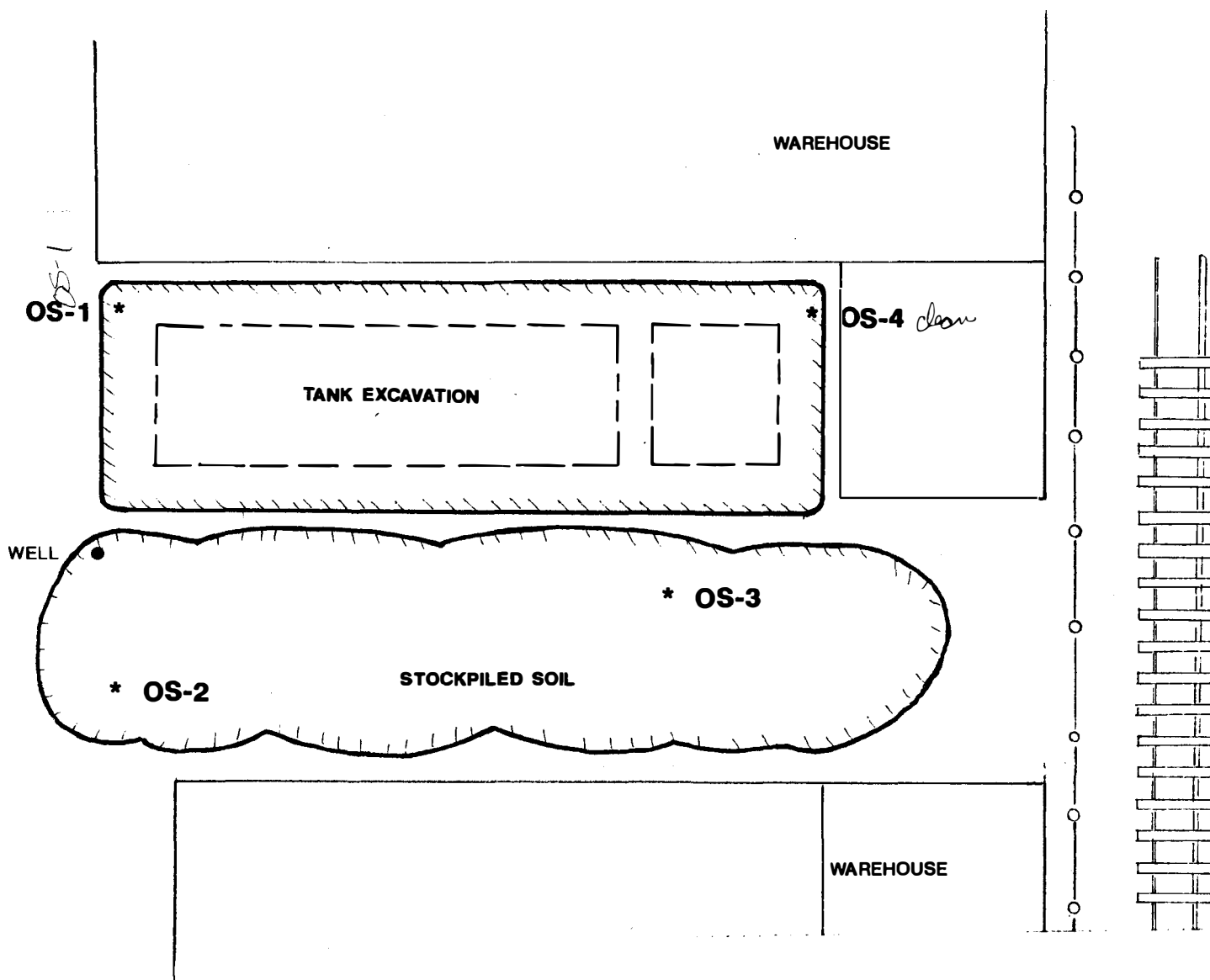
3. Chain-of-Custody Number:

4. Date Sent to Lab: 16 February 1990

5. Comments: Lab to send results directly to County LUFT program

CONTRACTOR INFORMATION

1. Contractor Name: Kern Environmental
2. Personnel Onsite (Name/Title): Steve, foreman
Noah, laborer
????, operator
Vacuum truck drivers, Stan
and ????
3. Mobe/Demobe Hours:
4. Onsite Work Hours: 14 Feb: 2 hours
15 Feb: 13 hours
16 Feb: 8 hours
5. Standby Hours: none
6. Total time billed to this tank site: see Kern invoice
7. Equipment and Materials used or rented: see Kern invoice
8. Comments: Information on compaction testing should be recieved by 27 February. Original scope of work did not include the 1000 gallon tank which was discovered during excavation activities. Additional work will be required. The approach will depend on the property status (vacated or still leased).



ORCHARD SERVICES
Site Plan with Sampling Locations
SPEvS Job No. 05053

NTS

TABLE 1

ORCHARD SERVICES
Results of Soil Sampling
performed
February 16, 1990

Sample No.	Location	Results in ppm		
		TTL Lead	BTEX	TPH
OS-1	9', west	19	benzene toluene .59 ethylb .52 xylene .72	gas 40 stod solvent 40
OS-2	Stockpile fill	28	benzene --- toluene .009 ethylb .010 xylene .025	gas <.5 stod solvent 5.9
OS-3	stockpile sandy	120*	benzene .05 toluene .04 ethylb 1.0 xylene .20**	gas 70 stod solvent 100
OS-4	4', east	21	benzene .01 toluene .04 ethylb .13 xylene .05	gas 8 stod solvent 85

* STLC value for this sample was 0.74 mg/liter

** Non detectable for all other analytes in EPA method 8240

Coast to
Coast
Analytical
Services

Coast to Coast
Analytical Services
751 South Kellogg, Suite A
Goleta, California 93117
(805) 964-7838

Lab Number: As Listed
Collected: 02/16/90
Received: 02/16/90 @ 15:58
Tested: 02/20/90 by ABS
Collected by: Elizabeth Gillis

ATTN: Elizabeth Gillis
Southern Pacific Environmental
9719 Lincoln Village Drive, Suite 310
Sacramento, CA 95827

Sample Description:
Job #05053, Orchard Services,
Soils As Listed

Digested by EPA Method 3050
by EPM on 02/18/90
Tested by EPA Method 7420

REPORT

LAB NUMBER	SAMPLE DESCRIPTION & TIME COLLECTED	TOTAL LEVEL FOUND - mg/kg LEAD Detection Limit = 1. (PQL)*
GD-0801	OS-1 Collected @ 09:15	19.
GD-0802	OS-2 Collected @ 09:30	28.
GD-0803	OS-3 Collected @ 09:45	120.
GD-0804	OS-4 Collected @ 10:00	21.
QS-0804	Spike % Recovery - 104% (Spiked with 24. mg/kg)	46.
QSS-0804	Duplicate Spike % Recovery - 104% (Spiked with 23. mg/kg)	45.

*Practical Quantitation Limit

***The TOTAL THRESHOLD LIMIT CONCENTRATION for lead is 1000 mg/kg as listed in
22 Cal Adm Code Article 11 Section 66699 as persistent & bioaccumulative
toxic substance.

MH/jt
02/23/90
D0801-04.wr1 #78

Respectfully submitted,
COAST TO COAST ANALYTICAL SERVICES
Mary Havlicek
Mary Havlicek, Ph.D., President

Coast-to-
Coast
Analytical
Services

Coast-to-Coast
Analytical Services
751 South Kellogg, Suite A
Goleta, California 93117
(805) 984-7838

Lab Number: GD-0803
Collected: 02/18/90 @ 09:45
Received: 02/18/90 @ 15:58
Tested: As Listed
Collected by: Elizabeth Gillis

ATTN: Elizabeth Gillis
S.P. Environmental
9719 Lincoln Village Drive, Suite 310
Sacramento, CA 95827

Sample Description:
Job #05053, Orchard Services,
OS-3, Soil

CA WET (Citrate Buffer)
by NG on 03/13/90
Digested by EPA Method 3010
by EPM on 03/15/90

REPORT

CONSTITUENT	EPA METHOD/DATE/ANALYST	DETECTION LIMIT (PQL)*	SOLUBLE LEVEL FOUND mg/l
LEAD	EPA 7420 03/16/90 NG	0.02	0.74

*Practical Quantitation Limit

***The SOLUBLE THRESHOLD LIMIT CONCENTRATION for lead is 5.0 mg/l as listed in
22 Cal Adm Code Article 11 Section 66699 as persistent & bioaccumulative
toxic substance.

MH/jt
03/18/90
D0803spe.wr1 081

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES
Mary Havlicek
Mary Havlicek, Ph.D., President

Coast-to-Coast
Coast
Analytical
Services

Coast-to-Coast
Analytical Services, Inc.
751 S. Kellogg Avenue, Suite A
Goleta, California 93117
(805) 964-7838

Lab Number: GD-0801
Collected: 02/16/90
Received: 02/16/90
Tested: 02/19/90
Collected by: E. Gillis

Fuel Fingerprint Analysis - EPA 8240/8260 (GC/MS)

EXTRACTED BY EPA METHOD 5030 - Purge & Trap **

SP Environmental Systems
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

SAMPLE DESCRIPTION:
Job # 05053, Orchard Services
OS - 1, soil

Compound Analyzed	Detection Limit (*PQL) in ppm	Concentration in ppm
Benzene	0.05	0.10 ✓
Toluene	0.05	0.59
Ethylbenzene	0.05	0.52
Xylenes	0.05	0.72
1,2-Dichloroethane (EDC)	0.05	not found
Ethylene Dibromide (EDB)	0.05	not found
TOTAL PURGEABLE PETROLEUM HYDROCARBONS 5. (C4 - C12 Hydrocarbons)		340.
BTX as a Percent of Fuel		0.4
Percent Surrogate Recovery		81.

*PQL - Practical Quantitation Limit

** Sonicated during Extraction

NOTE: High concentration of petroleum hydrocarbons caused the sample to be run diluted, resulting in raised practical quantitation limits for analytes. Please refer to instrument blank for undiluted practical quantitation limits.

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES

Mary Havlicek
Mary Havlicek, Ph.D.
President

gd0801f.wr1
MH/brp/mc
msdg1/03/09/90

RECEIVED

MAR 14 1990

SP-ENVIRONMENTAL

Coast-to-Coast
Analytical
Services

Coast-to-Coast
Analytical Services, Inc.
751 S. Kellogg Avenue, Suite A
Goleta, California 93117
(805) 964-7838

Lab Number: GD-0802dup
Collected: 02/16/90
Received: 02/16/90
Tested: 02/19/90
Collected by: E. Gillis

Fuel Fingerprint Analysis - EPA 8240/8260 (GC/MS)
EXTRACTED BY EPA METHOD 5030 - Purge & Trap **

SP Environmental Systems
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

SAMPLE DESCRIPTION:
Job # 05053, Orchard Services
OS - 2, soil
duplicate

Compound Analyzed	Detection Limit (*PQL) in ppm	Concentration in ppm
-----	-----	-----
Benzene	0.005	not found
Toluene	0.005	0.008
Ethylbenzene	0.005	0.006
Xylenes	0.005	0.015
1,2-Dichloroethane (EDC)	0.005	not found
Ethylene Dibromide (EDB)	0.005	not found
-----	-----	-----
TOTAL PURGEABLE PETROLEUM HYDROCARBONS (C4 - C12 Hydrocarbons)	0.5	6.7
-----	-----	-----
BTX as a Percent of Fuel		0.3
Percent Surrogate Recovery		83.
-----	-----	-----

*PQL - Practical Quantitation Limit

** Sonicated during Extraction

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES

Mary Havlicek

Mary Havlicek, Ph.D.
President

gd0802fd.wr1
MH/jm/mc
msdg1/03/09/90

Coast-to-Coast
Analytical
Services

Coast-to-Coast
Analytical Services, Inc.
751 S. Kellogg Avenue, Suite A
Goleta, California 93117
(805) 964-7838

Lab Number: GD-0802
Collected: 02/16/90
Received: 02/16/90
Tested: 02/19/90
Collected by: E. Gillis

Fuel Fingerprint Analysis - EPA 8240/8260 (GC/MS)
EXTRACTED BY EPA METHOD 5030 - Purge & Trap **

SP Environmental Systems
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

SAMPLE DESCRIPTION:
Job # 05053, Orchard Services
OS - 2, soil

Compound Analyzed	Detection Limit (*PQL) in ppm	Concentration in ppm
Benzene	0.005	not found
Toluene	0.005	0.009
Ethylbenzene	0.005	0.010
Xylenes	0.005	0.025
1,2-Dichloroethane (EDC)	0.005	not found
Ethylene Dibromide (EDB)	0.005	not found
TOTAL PURGEABLE PETROLEUM HYDROCARBONS (C4 - C12 Hydrocarbons)	0.5	5.9
BTX as a Percent of Fuel		0.6
Percent Surrogate Recovery		81.

*PQL - Practical Quantitation Limit
** Sonicated during Extraction

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES

Mary Havlicek

Mary Havlicek, Ph.D.
President

gd0802f.wr1
MH/jm/mc
msdg1/03/09/90

Coast-to-Coast
Analytical
Services

Coast-to-Coast
Analytical Services, Inc.
751 S. Kellogg Avenue, Suite A
Goleta, California 93117
(805) 964-7838

Lab Number : GD-0803
Collected : 02/16/90
Received : 02/16/90
Tested : 02/16/90
Collected by: E. Gillis
EPA METHOD 8240/8260 (GC/MS)
EXTRACTED BY EPA 5030 - Purge & Trap
Sample Description:
Job # 05053, Orchard Services
OS - 3, soil

Attn: Elizabeth Gillis
SP Environmental Systems
9719 Lincoln Village Drive, Ste 310
Sacramento, CA 95827

Compound Analyzed	Detection Limit *PQL (ug/kg)	Concentration (ug/kg)	Compound Analyzed	Detection Limit *PQL (ug/kg)	Concentration (ug/kg)
Acetone	1000.	ND	1,2-Dichloroethene	40.	ND
Benzene	20.	50.	1,2-Dichloropropane	40.	ND
Bromodichloromethane	40.	ND	c-1,3-Dichloropropene	40.	ND
Bromoform	40.	ND	t-1,3-Dichloropropene	40.	ND
Bromomethane	40.	ND	Ethylbenzene	40.	1000.
2-Butanone	500.	ND	2-Hexanone	100.	ND
Carbon Disulfide	40.	ND	Methyl Isobutyl Ketone	100.	ND
Carbon Tetrachloride	40.	ND	Methylene Chloride	100.	ND
Chlorobenzene	40.	ND	Styrene	40.	ND
Chloroethane	40.	ND	1,1,2,2-Tetrachloroethane	40.	ND
2-Chloroethylvinylether	500.	ND	Tetrachloroethene	40.	ND
Chloroform	40.	ND	Toluene	40.	40.
Chloromethane	40.	ND	1,1,1-Trichloroethane	40.	ND
Dibromochloromethane	40.	ND	1,1,2-Trichloroethane	40.	ND
1,2-Dichlorobenzene	40.	ND	Trichloroethene	40.	ND
1,3-Dichlorobenzene	40.	ND	Trichlorofluoromethane	40.	ND
1,4-Dichlorobenzene	40.	ND	Trichlorotrifluoroethane	100.	ND
1,1-Dichloroethane	40.	ND	Vinyl Acetate	100.	ND
1,2-Dichloroethane	40.	ND	Vinyl Chloride	40.	ND
1,1-Dichloroethene	40.	ND	Xylenes	40.	200.
Total Purgeable Petroleum Hydrocarbons (C4 - C12)				1000.	470000.

* PQL - Practical Quantitation Limit

** NOTE: High detection limits are due to sample matrix.

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 108/114/130

Constituents reported as ND would have been reported if present at or above the detection limit.

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES

Mary D. Havlicek
Mary D. Havlicek, Ph.D., President

finn/03/09/90
gd0803v.wr1
MH/brp/mc

Coast-to-
Coast
Analytical
Services

Coast-to-Coast
Analytical Services, Inc.
751 S. Kellogg Avenue, Suite A
Goleta, California 93117
(805) 964-7838

Lab Number: GD-0804
Collected: 02/16/90
Received: 02/16/90
Tested: 02/19/90
Collected by: E. Gillis

Fuel Fingerprint Analysis - EPA 8240/8260 (GC/MS)
EXTRACTED BY EPA METHOD 5030 - Purge & Trap **

SP Environmental Systems
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

SAMPLE DESCRIPTION:
Job # 05053, Orchard Services
OS - 4, soil

Compound Analyzed	Detection Limit (*PQL) in ppm	Concentration in ppm
Benzene	0.01	0.01
Toluene	0.01	0.04
Ethylbenzene	0.01	0.13
Xylenes	0.01	0.05
1,2-Dichloroethane (EDC)	0.01	not found
Ethylene Dibromide (EDB)	0.01	not found

TOTAL PURGEABLE PETROLEUM HYDROCARBONS 1. (C4 - C12 Hydrocarbons)		93.

BTX as a Percent of Fuel		0.1
Percent Surrogate Recovery		70.
=====		

*PQL - Practical Quantitation Limit

** Sonicated during Extraction

NOTE: High concentration of petroleum hydrocarbons caused the sample to be run diluted, resulting in raised practical quantitation limits for analytes. Please refer to instrument blank for undiluted practical quantitation limits.

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES

Mary Havlicek
Mary Havlicek, Ph.D.
President

gd0804f.wr1
MH/jm/mc
msdg1/03/09/90

SAMPLER: (Signature) Elizabeth Gillis

CHAIN-OF-CUSTODY RECORD

Phone 916-369-8971

Date Shipped _____

Carrier _____

Airbill No. _____

Cooler No. _____

SHIP TO:

Enseco-Cal Lab
2544 Industrial Blvd.
West Sacramento, CA 95691
(916) 372-1393

SEND RESULTS TO:

Client Name Elizabeth Gillis
Company US Southern Pacific Environmental
Address 9719 Lincoln Village Drive, Suite 310
Sacramento 95827
Phone 916-369-8971

ATTENTION: _____

PROJECT NAME Orchard Services PROJECT NO. 05053 P.O. NO. _____

Relinquished by: (Signature) [Signature] Received by: (Signature) _____ Date 3:58 Time 2-16-90

Relinquished by: (Signature) _____ Received by: (Signature) _____ Date _____ Time _____

Relinquished by: (Signature) _____ Received at lab by: (Signature) Kellee Heisher Date 2-16-90 Time 3:58

Relinquished from lab by: (Signature) _____ Received by: (Signature) _____ Date _____ Time _____

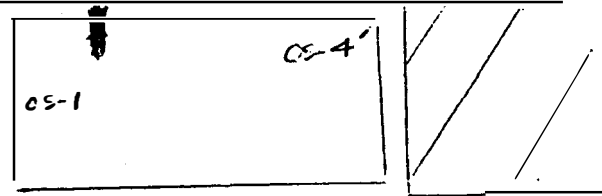
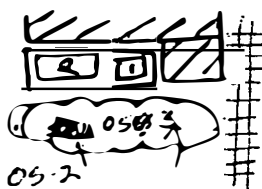
ANALYSIS REQUEST

Sample ID Number	Sample Description	Date/Time Sampled	Analysis Requested	Sample Condition Upon Receipt
05-1	brass tube	9:15	8015-M, 8020, Lead TH 20	
05-2	brass tube	9:30	" " "	9'
05-3	brass tube	9:45	" " " 80240	
05-4	brass tube	10:00	8015-M, 8020, Lead P	5'

Special Instructions/Comments:

N
↑

Site Plan



NOTE: UNUSED PORTIONS OF NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

Expected

Analytical

T.A.T's:

Immediate

Attention (200% surcharge)

RUSH (50-100% surcharge)

Standard

Cal Lab ID Number: (for lab use only)

Client Retains White Copy Only

(Revised 1/87)

UNAUTHORIZED RELEASE REPORT
for
County of Santa Barbara, Health Care Services

Two underground storage tanks were removed from 399 Linden Avenue, Carpinteria on February 15, and 16, 1990. The 250 and 1000 gallon steel tanks were in good condition and only slightly rusted. No holes were observed. The estimated age of the tanks is 40 years old. The tanks are believed to have contained super and regular gasoline to support the vehicle maintenance operations of the lemon packing yard that previously operated here.

During excavation activities, contamination was noted in the backfill and the native soils. Refer to Table 1 for a summary of analytical results of soil sampling. The actual quantity of hazardous substances released is unknown, but appears to be the result of overfilling and normal operations over the course of time, rather than as a result of a leak or spill.

The estimate of the extent of soil and groundwater contamination is based on the observations and information gained from the tank removal operations and from a report on a well previously installed by ERM- West at the site. The results of the soil sampling indicate that contamination remains in the soil at the nine foot depth at the west end of the excavation. Results indicate 40 ppm gasoline and 300 ppm stoddard solvent. Contamination appeared to dissipate rapidly at the eastern end of the excavation and in fact at a depth of only four feet 8 ppm gasoline and 85 ppm stoddard solvent were observed. The areal extent of contamination was difficult to determine due to proximity of building and underground interferences.

The well previously installed by ERM-West is located just south of the southwestern corner of the excavation. Results of the soil sample from the boring collected between 6.0' and 6.5' indicate 300 mg/kg kerosene and 97 mg/kg gasoline. The water sample contained 77 ug/l gasoline.

Contaminated soil was removed from the excavation to a depth of six feet. The final size of the excavation was 20' x 6' x 6'. Approximately 30 cubic yard of soil was stockpiled onsite awaiting analytical results of sampling to ascertain disposal options. The excavation was backfilled with clean imported soil and compacted to 90 percent relative compaction. The stockpiled soils will be transported to Forward, Inc. in Stockton, California for final disposal as a California regulated waste only.



COUNTY OF SANTA BARBARA • HEALTH CARE SERVICES

315 CAMINO DEL REMEDIO • SANTA BARBARA, CALIFORNIA 93110 • (805) 681-5200

LAWRENCE HART, M.D., F.A.C.P.M.
DIRECTOR AND HEALTH OFFICER

FILE COPY

February 20, 1990

Mr. John Moe
Southern Pacific Railroad
1 Market Plaza, Room 1007
San Francisco, CA 94105

Re: Underground Tank Release at 399 Linden Avenue, Carpinteria,
California

On June 5, 1989, Santa Barbara County signed a contract with the State Water Resources Control Board to oversee assessment and cleanup at the above named site. As a result of this agreement Environmental Health Services has formed the Leaking Underground Fuel Tank (LUFT) Program with whom you will be working during remediation of this site. Under the terms of this contract, the State will bill you for time spent working on your case by LUFT Program Staff. Attached is a notice informing you of your financial obligations and responsibilities regarding cleanup of your site.

If you have any questions regarding this notice, please contact Richard Evans, (805) 681-4361, between the hours of 8:00 & 9:30 a.m., Monday through Friday.

Very truly yours,

Richard A. Stedman
LUFT Program Supervisor

Richard Evans
LUFT Specialist

Attachment: Notice of Reimbursement

BRANCH OFFICES



500 West Foster Rd.
Santa Maria, CA 93455
(805) 934-6223



751-B East Burton Mesa
Lompoc, CA 93436
(805) 737-7744

State Water Resources Control Board
Division of Water Quality
LUFT Cleanup Program

Notice of Reimbursement
When Federal Funds are Used

Whereas the federal Petroleum Leaking Underground Storage Tank Trust Fund provides funding to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks; and Whereas the direct and indirect costs of overseeing removal or remedial action at the above site are funded, in whole or in part, from the federal Trust Fund; and Whereas the above individual(s) or entity(ies) have been identified as the party or parties responsible for investigation and cleanup of the above site; YOU ARE HEREBY NOTIFIED that pursuant to Subdivision (h) of Section 699(b) of the United States Code, the above Responsible Party or Parties shall reimburse the State Water Resources Control Board for all direct and indirect costs incurred by any and all state and local agencies while overseeing the cleanup of the above underground storage tank site; and the above Responsible Party or Parties shall make full payment of such costs within 30 days of receipt of a detailed invoice from the State Water Resources Control Board.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—
LOS ANGELES REGION107 SOUTH BROADWAY, SUITE 4027
LOS ANGELES, CALIFORNIA 90012-4596
(213) 620-4460

July 15, 1988

✓
Mr. Don Slack, President
VenVirotek
1536 Eastman Ave., Suite 6-A
Ventura, CA 93003

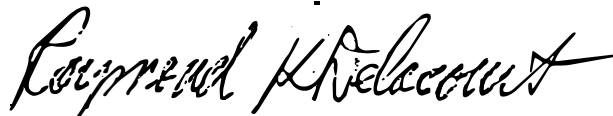
DISCHARGE REQUIREMENTS-BAILLARD FACILITY
(File No. 84-33)(CI 6689)

Reference is made to our letter dated June 15, 1988, which transmitted a copy of tentative waste discharge requirements adding additional waste streams to the treatment process at your Bailard facility.

In accordance with administrative procedures, this Board, at a public meeting held on June 27, 1988, reviewed the tentative Order and comments submitted, considered all factors in the case, and adopted Order No. 88-066 (copy attached) relative to this discharge.

The first monitoring report under the Program attached to the Order is due November 1, 1988; however, any reports previously required under your earlier Program (for the period ending June 30, 1988) must still be submitted.

If you have any questions regarding this matter, please call me at (213) 620-5320.

RAYMOND K. DELACOURT
Senior Water Resource
Control Engineer

cc: See attached mailing list

Enclosure

(349, 3147) 713 200-7500
Kod Nelson
COPY 744-7548



STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

ORDER NO. 88-066

WASTE DISCHARGE REQUIREMENTS
for
VenVirotek

(File No. 84-33)

The California Regional Water Quality Control Board, Los Angeles Region, finds:

1. VenVirotek (the "operator") currently utilizes the Chemfix process at the Bailard Landfill site for the treatment of nonhazardous oil field drilling muds under waste discharge requirements contained in Order No. 87-16, adopted by this Board on January 26, 1987.
2. The Chemfix process is a solidification and chemical fixation process patented by Chemfix Technologies, Inc. (CTI). VenVirotek has a license for this process in which sodium silicate and cement are mixed with the water-based, nonhazardous oilfield drilling mud wastes. VenVirotek contends that reactions of the water soluble silicates in the reagents with the mud transform the drilling mud into a soil-like, solid, nonhazardous material with properties similar to silty clay and suitable for use as daily cover. The product produced in this process is currently used for daily cover at Coastal Landfill.
3. VenVirotek, a California corporation and a wholly owned subsidiary of Chemfix Technologies, Inc., has filed a report of material change to add the following nonhazardous waste streams to the treatment process: Wastewater (oilfield production brine water), Water-based drill cuttings, Oil-based drilling muds, Oil-based drill cuttings, Tank and pit bottom sediments, SO₂ scrubber waste, Contaminated soil, and Municipal sewage sludge.
4. Section 17225.16 of Title 14 of the Code of California Regulations (CCR) defines "cover material" as soil or other material suitable for use in covering compacted solid wastes in a disposal site.
5. Water drilling mud and fluids are listed in the State Department of Health Services' hazardous waste regulations (Section 66680, Chapter 30, Title 22, CCR) as hazardous wastes if the muds or fluids contain hazardous materials. However, the

Department of Health Services developed a list of "Drilling Mud Additives uses in Nonhazardous drilling Muds and Fluids". Waste drilling muds and fluids containing only the listed additives may be managed as nonhazardous wastes, provided they do not contain toxic substances from other sources.

6. The Ventura County Planning Division conducted an Initial Study (environmental evaluation) to determine if this project could significantly affect the environment. The Initial Study determined that the project could have a significant effect on the environment; however, the potentially significant impacts can be satisfactorily mitigated through adoption of identified mitigation measures. Therefore, the Ventura County Planning Division prepared a Mitigated Negative Declaration pursuant to the provisions of the California Environmental Quality Act (CEQA) (Section 15073) which was certified by the County January 22, 1987. In a letter dated November 10, 1987, the Division found that the addition of nonhazardous water-based drilling muds and cuttings, mineral-oil-based drilling muds and cuttings, oilfield wastewater (from tanks and water treatment), and oilfield tank bottom sediments, to the processing waste stream would be Categorically Exempt from CEQA under Section 15301, which exempts a "minor alteration of existing public or private structures . . . involving negligible or no expansion of use beyond that previously existing."

7. VenVirotek processes up to 100,000 gallons per day of nonhazardous wastes, but has the potential for expansion to 200,000 gallons per day. The Chemfix material that is produced is dried and stockpiled for use as daily cover material at the Ventura Coastal Landfill. VenVirotek also proposes to use the Chemfix material as a daily cover material at the Bailard Landfill when it is re-opened in fall 1988. (Bailard Landfill has been inactive since October 13, 1975.)

8. On May 23, 1988, this Board adopted Order No. 88-54 which prescribes waste discharge requirements for the disposal of nonhazardous and inert solid wastes at Bailard Landfill, a Class III Landfill. The landowners of Bailard landfill are W. R. Bailard, et al., but the landfill is operated by Ventura Regional Sanitation District.

9. The Bailard Landfill is located west of Victoria Avenue along the south bank of the Santa Clara River in Ventura County (just outside the city of Oxnard). VenVirotek operates the Chemfix process on a six-acre site at the Bailard Landfill.

10.- The site configuration consists of three components:

- a. A truck unloading area and drilling mud storage containment,
- b. CTI's processing unit and associated equipment, and the
- c. Chemfix material containment area.

11. The Chemfix process unit is a self-contained system in a forty-foot trailer consisting of liquid and dry reagent storage tanks, reagent metering systems, and a mechanical reagent mixing system.

12. The product Chemfix material is pumped into four bermed, unlined solidification cells, each with a 120,000 cubic-foot capacity. VenVirotek has installed soil moisture sensing devices under each solidification cell to detect any moisture that may leak to the ground below.

13. After several days "drying" time in the solidification cells, the Chemfix material is removed and stockpiled in a bermed area adjacent to the cells for use as daily cover material.

14. The Bailard Landfill lies within the Oxnard Plain Hydrologic Subunit of the Santa Clara-Calleguas Hydrologic Unit of Southern California. The uppermost "semi-perched" aquifer is known to be of poor water quality due to the leaching of poor quality water from agricultural practices in the Forebay area, and from leachate in the vicinity of the landfill (not necessarily leachate from only Bailard, but also other nearby landfills). The underlying Oxnard aquifer, an important water-bearing unit, is used primarily for industrial, agricultural, and domestic supply. Its use is restricted in the vicinity of the landfill to irrigation purposes.

15. The Board adopted a revised Water Quality Control Plan for the Santa Clara River Basin on March 27, 1978. The Plan contains water quality objectives for surface and groundwaters of the Oxnard Hydrologic Subarea. The requirements in this Order as they are met will be in conformance with the goals of the Water Quality Control Plan.

The Board has notified VenVirotek and interested agencies and persons of its intent to prescribe waste discharge requirements for the Chemfix project at the Bailard Landfill.

The Board in a public meeting heard and considered all comments pertaining to the project.

IT IS HEREBY ORDERED that VenVirotek shall comply with the following:

A. Acceptable Materials

1. Wastes acceptable for treatment at this facility shall be limited to only nonhazardous wastes as defined by the Department of Health Services. Hazardous waste as defined in Section 25117 of the Health and Safety Code and/or in Title 22, Chapter 30, CCR, shall not be accepted for treatment (or stored) at this facility.

2. The following waste streams are acceptable for treatment at this facility:

- a. Water-based drilling muds and cuttings,
- b. Mineral-oil-based drilling muds and cuttings,
- c. Oilfield wastewater (from tanks and water treatment), and
- d. Oilfield tank bottom sediments.

3. The following waste streams may be acceptable for treatment at this facility upon approval of the Executive Officer. In addition, the Executive Officer may allow treatment of one or more of these waste streams, but may limit the use of produced Chemfix product. (He may direct that it not be used for cover and be disposed of for example.)

- a. Oil-based drilling muds and cuttings other than mineral-oil-based muds and cuttings,
- b. SO₂ scrubber waste,
- c. Contaminated soil, and
- d. Municipal sewage sludge.

4. Waste streams not specifically named above shall not be accepted for treatment at this facility.

B. Chemfix Use Requirements

1. If the Chemfix material is used, the Chemfix material shall only be used as daily cover at Coastal Landfill (unless approved for use at Bailard as provided for below.)

2. Chemfix material used as daily cover shall not have a moisture content greater than 50%.

3. Chemfix material shall not be used as daily cover at the Bailard Landfill without prior approval of the Executive Officer.
4. Chemfix material discharged into the solidification cells or stockpiled shall not release liquids containing pollutants to the ground below.
5. Chemfix material used as cover material shall not release liquids into the Coastal or Bailard landfills.
6. Chemfix material which is nonhazardous, and has a moisture content less than 50%, may be disposed of in any Class III landfill in this Region.
7. Chemfix material which is nonhazardous, but has a moisture content between 50% and 80%, may only be disposed of in a Class III landfill in this Region having a leachate collection and removal system and at a minimum solids-to-liquid ratio of 5:1 by weight (assuming the landfill site doesn't have a different site-specific solids-to-liquid ratio requirement).

C. General Requirements

1. Wastes treated or handled at the site shall not be permitted to escape to the ground where they could threaten or pollute groundwater, or to enter drainage ditches or watercourses, where they could threaten or pollute surface water. ("Untreated" wastes shall be defined to include partially treated wastes here and herein below.)
2. The treatment site shall be engineered with appropriate linings and/or dikes to insure that there will be no loss from the site from the untreated waste holding tanks, unloading areas, process unit areas, solidification cells, and stockpile areas due to leakage, flooding, liquefaction, or seismic activity.
3. All untreated waste, Chemfix reagent and product containment areas shall be provided with adequate freeboard to insure against overtopping.
4. There shall be no damage to the community by odors or unsightliness resulting from unreasonable practices in the treatment of wastes at this site, such that it would create a nuisance as defined in Section 13050(m) of the California Water Code (CWC).

5. Neither treatment nor handling of the untreated waste streams, Chemfix material, or reagents shall create pollution (as defined in Section 13050(l) CWC) or nuisance (as defined in Section 13050(m) CWC).
6. The operators shall remove and relocate untreated waste streams or Chemfix materials which are in violation of these requirements.
7. Any untreated waste or Chemfix material removed from the site for disposal shall be disposed of only at a legal disposal site. Any untreated waste or Chemfix material transported from the site shall not be permitted to leak or otherwise escape to the ground or to a watercourse en route to the disposal site. For the purposes of these requirements, a legal site is one for which requirements have been adopted by a Regional Water Quality Control Board and which is in full compliance therewith.
8. Dust emissions from the dry reagent system or the Chemfix material shall not cause a nuisance.
9. Storm runoff, except rain falling directly on the facility, shall be diverted around the site.
10. The Chemfix process site shall be protected from any washout or erosion of wastes or covering materials, and from inundation which could occur as a result of flood having a predicted frequency of once in 100 years or less.
11. Adequate measures shall be taken to prevent a condition of nuisance from fly breeding, rodent harborage, and other vectors.

D. General Provisions

1. The requirements prescribed herein do not authorize the commission of any act causing injury to the property of another, nor protect the operator from his liabilities under federal, state, or local laws.
2. These requirements do not exempt the operator of the Chemfix process facilities from compliance with any other laws, regulations, or ordinances which may be applicable; they do not legalize this treatment facility and they leave unaffected any further restraint on the facility or Chemfix material which may be contained in other statutes or required by other agencies.

3. The operator must comply with all of the terms, requirements and conditions of this order. Any violation of this order constitutes a violation of the California Water Code, and is grounds for enforcement action, order termination, order revocation, or any combination thereof.

4. Any use of the Chemfix material other than specifically described in this order is prohibited, and constitutes a violation of this order.

5. The Regional Board shall be notified of any incident resulting from site operations that may endanger health or the environment by telephone within 24 hours and in writing within seven days. The written notification shall fully describe the incident including what occurred, when it occurred, the duration of the incident, when correction occurred (or when correction will occur if it is a continuing incident), and the steps taken or planned to reduce, eliminate, and/or prevent recurrence. All instances of noncompliance with this Order shall also be reported to the Board in the same manner as stated above for endangerment incidents.

6. In the event the operator is unable to comply with any of the conditions of this order due to:

- a. breakdown of processing equipment;
- b. accidents caused by human error of negligence; or
- c. other causes such as acts of nature;

The operator shall notify the Executive Officer by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written notification shall include pertinent information explaining reasons for the non-compliance and shall indicate what steps were taken to correct the problem and the dates thereof, and what steps are being taken to prevent the problem from recurring.

7. After notice and opportunity for a hearing, this order may be terminated or modified for cause, including, but not limited to:

- a. Violation of any term or condition contained in this order;
- b. Obtaining this order by misrepresentation, or failure to disclose all relevant facts; and/or

c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

8. This order may be modified, revoked and reissued, or terminated for cause. The filing of request by the operators for a modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any condition of this order.

9. This order does not convey any property rights of any sort, or any exclusive privilege.

10. The operator shall furnish, within a reasonable time, any information the Regional Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this order. The operator shall also furnish to the Regional Board, upon request, copies of records required to be kept by this order.

11. All applications, reports, or information submitted to the Regional Board shall be signed:

a. In the case of cooperations, by a principle executive officer at least of the level of vice-president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which discharge originates;

b. In the case of a partnership, by a general partner; or

c. In the case of a sole proprietorship, by the proprietor.

12. A copy of these waste discharge requirements shall be maintained at the treatment facility so as to be available at all times to operating personnel.

13. The operator shall take all reasonable steps to minimize or prevent any discharge that has a reasonable likelihood of adversely affecting human health or the environment.

14. The operator shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) that are installed or used by the operator to achieve compliance with this order. Proper operation and maintenance includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems that are installed by the operators only when necessary to achieve compliance with the conditions of this order.

15. The operator shall give advance notice to the Regional Board as soon as possible of any planned physical alterations or additions to the treatment facilities or of any planned changes in the facilities.

16. The operator shall file with the Board a report of material change at least 120 days before making any material change or proposed change in the types, character, location or volume of wastes or materials treated or Chemfix material disposed or used.

17. In the event of any change in the name, ownership, or control of these treatment facilities, the operator shall notify this Board of such change and shall notify the succeeding owner or operator of the existence of this order by letter, copy of which shall be forwarded to the Board.

18. Regional Board staff shall be allowed entry to the treatment facility, or where records are kept regarding the facility, at any reasonable time. Staff shall be permitted to inspect any area of the facility and any monitoring equipment used to demonstrate compliance with this Order. Staff shall be permitted to copy any records, photograph any area, obtain samples, and/or monitor to assure compliance with this Order, or as authorized by applicable laws or regulations.

19. The operator shall furnish, under penalty of perjury, technical or monitoring program reports in accordance with Section 13267 CWC. Failure or refusal to furnish these reports, or falsifying any information provided therein makes the discharger guilty of a misdemeanor and subject to the penalties stated in Section 13268 CWC. Monitoring reports shall be submitted in accordance with the specifications contained in a Monitoring and Reporting Program prepared by the Executive Officer. This Monitoring and Reporting Program is subject to periodic revisions as warranted.

20. The operator shall file a technical report with this Board not later than 30 days after receipt of this order, relative to the operation and maintenance program for the treatment facilities. The information to be contained in that report shall include, as minimum, the following:

- a. The name and address of the person or company responsible for operation and maintenance of the facility;
- b. Type of maintenance (preventive or corrective); and
- c. Frequency of maintenance, if preventive.

If an operation and maintenance report has been submitted to the Board previously and there have been no changes, a second report need not be provided (although a letter to that effect shall be submitted in lieu of the report).

21. The operator shall file with the Board within 90 days after the effective date of this order, a technical report on their preventive (failsafe) and contingency (cleanup) plans for controlling accidental discharges, and for minimizing the effect of such events. The technical report shall:

- a. Identify the possible sources of accidental discharges, untreated waste bypasses, and contaminated drainages. The loading and storage areas, potential power failures, and the failure of processing equipment, tanks and pipes should be considered;
- b. Evaluate the effectiveness of the present facilities and procedures and state when they became operational;
- c. Describe the facilities and procedures needed for effective preventive and contingency plans; and
- d. Predict the effectiveness of the proposed facilities and procedures and provide an implementation schedule containing interim and final dates when they will be constructed, implemented, or operational.

Board staff, after review of this technical report, may establish conditions which it deems necessary to control accidental discharges and to minimize the effects of such events. Such conditions may be incorporated as part of this order, upon notice to the discharger, and positive consideration by the Board.

If a preventive and contingency plans report has been approved by the Executive Officer previously and there have been no changes, a second report need not be filed, but a letter to that affect shall be filed in lieu of the report.

22. The operator shall have an operating plan for handling any hazardous waste that may be received or identified at the treatment facility. The plan shall be submitted to the Executive Officer for his approval within 30 days of adoption of this order.

If a hazardous waste operating plan has been approved by the Board previously and there have been no changes, a second plan need not be filed, but a letter to that affect shall be submitted in lieu of the plan.

23. The operator shall provide this Regional Board with a list of all chemical compounds and materials used at the Chemfix process site. This list shall include both trade and chemical names and quantities of each. Any subsequent changes in types and/or quantities shall be reported promptly.

If a list has been submitted previously and there have been no changes, a second list need not be submitted, but a letter stating no changes have occurred shall be submitted within 30 days of adoption of this order.

24. This Board's Order No. 87-16, adopted January 26, 1987, is hereby rescinded.

I, Robert P. Ghirelli, Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Region on June 27, 1988.


for ROBERT P. GHIRELLI, D.Env.
Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION
MONITORING AND REPORTING PROGRAM NO. 6689

FOR

Venvirotek
(File No. 84-33)

I. Reporting

A. The discharger shall implement this Monitoring and Reporting Program beginning July 1, 1988. Monitoring reports shall be submitted to the Board quarterly, by the first day of the second month following the close of each calendar quarter. The first monitoring report under this program is due November 1, 1988.

B. Each monitoring report must affirm in writing that all analyses were conducted at a laboratory certified for such analyses in accordance with Section 13176 of the Water Code and in accordance with current EPA guideline procedures, 40 CFR Part 261, or as specified in this Monitoring Program.

C. For any analyses performed for which no procedures are specified in the EPA guidelines or in this Monitoring Program, the constituent or parameter analyzed and the method or procedure used must be specified in the report.

D. The discharger may submit additional data to the Board not required by this Program in order to simplify reporting to other regulatory agencies.

E. The following items in the attached "General Monitoring and Reporting Provisions" shall be applicable to this program: Items 1,4,5,7,8(with the exception that the report shall be due March 1st of each year),10,11,12,14, and 15.

F. Quarterly monitoring shall be performed during the months of February, May, August, and November.

G. Where the units for a parameter are listed as ug/l (ppb), suitable analytical techniques shall be used to achieve this precision. All minimum limits of detection shall be below the current Drinking Water Action Levels recommended by the Department of Health Services, Sanitary Engineering Branch, or the minimum limit of detection specified in EPA Methods, or Appendix A, 40 CFR 136, if the Action Level is not achievable.

T-1

H. Analytical data reported as "less than" shall be reported as less than a numeric value or below the limit of detection for that particular analytical method (also the limit of detection shall be noted).

I. All analytical samples obtained for this Program shall be grab samples.

J. If the discharger performs analyses for any parameter more frequently than required by this Program using approved analytical methods, the results of those analyses shall be included in the monitoring report.

K. In the event that hazardous, designated or other unacceptable wastes are detected at the site, the type, source, quantity and disposition of those wastes shall also be reported. If no unacceptable wastes are detected during the monitoring period, the report shall so state.

L. VenVirotek shall retain records of all monitoring information, including all calibration and maintenance records regarding monitoring instrumentation, and copies of all data submitted to regulatory agencies for a period of at least five years. This period may be extended by request of the Executive Officer at any time and shall be extended during the course of any unresolved litigation regarding all or any part of the site.

M. Records of monitoring information shall include:

- a. The date, exact place, and time of sampling or measurement;
- b. The individual(s) who performed the sampling or measurement;
- c. The date(s) analyses were performed on the samples;
- d. The individual(s) who performed the analyses;
- e. The analytical techniques or methods used; and
- f. The results of the analyses or measurements.

II. Treatment Process Reporting

All quarterly reports submitted to the Board shall contain the following information:

1. A tabular list of the sources, types and volumes of all wastes to be treated received daily. (Each volume of waste must be identified according to source and type.)
2. VenVirotek shall certify either by the procedures contained in Section 66305, Title 22 CCR, or based on acceptable analytical data, that each load of waste to be treated is nonhazardous.
3. A tabular list of the monthly totals of all the types and volumes of each waste received which corresponds to the Acceptable Materials lists in the waste discharge requirements.
4. A tabular list of the volume of Chemfix material produced daily.
5. A tabular list of dates, volumes, and locations of Chemfix material that was used as daily cover; these locations shall be specifically indicated on a map and submitted to the Board.
6. A tabular list of dates, volumes, and locations of the ultimate disposal of any untreated or partially treated wastes that were not processed, or Chemfix material that was not used as daily cover. If all the Chemfix material produced during the monitoring period was used, a statement to that affect shall be submitted with each monitoring report.
7. If the soil moisture sensing devices detect any leakage from the Chemfix material to the ground below the solidification cells, the operator shall report the estimated volume, location, and dates of leakage. If no leakage was detected, the operator shall so state this in each report.
8. A tabular list of the names and addresses of the waste generators and haulers during the quarter.
9. All analytical results and dates the samples were taken and analyzed during the quarter.
10. A certification that all wastes received, processed, handled, or disposed of were in compliance with the Board's requirements.

III. Sampling and Analyses

Representative samples shall be obtained and analyzed as follows:

A. Incoming Wastes

Monthly analyses of the incoming wastes shall be performed for the following parameters. The sample shall be representative of the waste mixture to be treated. If any waste stream(s) is routinely treated uncombined with all the other waste streams, it shall be sampled and analyzed separately.

<u>Parameters</u>	<u>Units</u>
pH	pH units
Electrical conductivity	umhos/cm
Oil and grease (EPA Method 418.1)	mg/l
Total petroleum hydrocarbons (EPA Method 8020 or 8015 modified)	ug/l
Total organic carbon	mg/l
Moisture content	percent

B. Chemfix Material (in Solidification Cells)

Monthly analyses of the Chemfix product material shall be performed for the following parameters:

<u>Parameters</u>	<u>Units</u>
Permeability ¹	cm/sec
Cationic exchange capacity	meq/100 mg
Unconfined compressive strength	PSF
Moisture content	percent

C. Chemfix Material (in stockpiles)

A representative sample of each stockpile of Chemfix material shall be obtained and analyzed immediately prior to its use as daily cover for moisture content:

<u>Parameter</u>	<u>Units</u>
Moisture content	percent

¹ Since the sample preparation affects the permeability test results, the specifics of sample preparation shall also be reported. The permeability shall be relative to water.

D. Additional Hazardous Waste Sampling and Analyses

In addition to the above, once each calendar quarter, samples of the untreated waste(s) and treated Chemfixed material of the same waste(s), shall be tested in accordance with Section 66700, Title 22 CCR (WET) to determine the Soluble Threshold Limit Concentration (STLC) and the Total Threshold Limit Concentration (TTL) values for the following parameters:

Antimony and/or its compounds
Arsenic and/or its compounds
Asbestos
Barium and/or its compounds
(excluding barite)
Beryllium and/or its compounds
Cadmium and/or its compounds
Chromium (VI) compounds
Chromium (III) and/or its compounds
Cobalt and/or its compounds
Copper and/or its compounds
Fluoride salts
Lead and/or its compounds
Mercury and/or its compounds
Molybdenum and/or its compounds
Nickel and/or its compounds
Selenium and/or its compounds
Silver and/or its compounds
Thallium and/or its compounds
Vanadium and/or its compounds
Zinc and/or its compounds

Also, these same samples shall be analyzed for volatiles, semi-volatiles, pesticides and PCB's using EPA Methods 8240, 8270, and 8080. (Other acceptable Methods such as 8010 and 8020, etc., may be substituted for 8240 upon written request and approval.) All peaks greater than 10% of the internal standard shall be identified and quantified for gas chromatography analyses. The analyses shall be compared against both the TTL and STLC limits in Title 22 as applicable. The analytical precision of each analysis must be such that this comparison can be made.

Ordered by : Richard A. Harris
for Executive Officer

Date: June 27, 1988

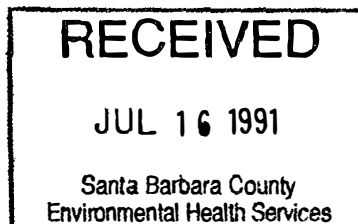
T-5

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

GENERAL MONITORING AND REPORTING PROVISIONS

1. All sampling, sample preservation, and analyses shall be performed in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants", promulgated by the United States Environmental Protection Agency.
2. All chemical, bacteriological, and bioassay analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health.
3. Effluent samples shall be taken downstream of any addition to the treatment works and prior to mixing with the receiving waters.
4. The discharger shall calibrate and perform maintenance procedures on all monitoring instruments and equipment to ensure accuracy of measurements, or shall ensure that both activities will be conducted.
5. A grab sample is defined as an individual sample collected in fewer than 15 minutes.
6. A composite sample is defined as a combination of no fewer than eight individual samples obtained over the specified sampling period. The volume of each individual sample is proportional to the discharge flow rate at the time of sampling. The sampling period shall equal the discharge period, or 24 hours, whichever period is shorter.
7. For every item where the requirements are not met, the discharger shall submit a statement of the actions undertaken or proposed which will bring the discharge into full compliance with requirements at the earliest time and submit a timetable for correction.
8. By January 30 of each year, the discharger shall submit an annual report to the Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. In addition, the discharger shall discuss the compliance record and the corrective actions taken or planned which may be needed to bring the discharge into full compliance with the waste discharge requirements.
9. The discharger shall maintain all sampling and analytical results, including strip charts; date, exact place, and time of sampling; date analyses were performed; analyst's name, analytical techniques used; and results of all analyses. Such records shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Board.

10. In reporting the monitoring data, the discharger shall arrange the data in tabular form so that the data, the constituents, and the concentrations are readily discernible. The data shall be summarized to demonstrate compliance with waste discharge requirements and, where applicable, shall include results of receiving water observations.
11. Monitoring reports shall be signed by:
- a. In the case of corporations, by a principal executive officer at least of the level of vice-president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates;
 - b. In the case of a partnership, by a general partner;
 - c. In the case of a sole proprietorship, by the proprietor;
 - d. In the case of a municipal, state or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.
12. Each report shall contain the following completed declaration:
- . " I declare under penalty of perjury that the foregoing is true correct.
- Executed on the _____ day of _____ at _____.
- _____(Signature)
- _____(Title)"
13. The discharger shall mail a copy of each monitoring report to the following:
- California Regional Water Quality
Control Board - Los Angeles Region
107 South Broadway, Room 4027
Los Angeles, CA 90012
- ATTN: Executive Officer
14. If no flow occurred (or no waste was deposited) during the reporting period, the report shall so state.
15. These records and reports are public documents and shall be made available for inspection during business hours at the office of the California Regional Water Quality Control Board, Los Angeles Region. Records or reports which might disclose trade secrets, etc., may be excluded from this provision as provided in Section 13267 (b) of the Porter-Cologne Water Quality Control Act, if requested.



STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

ORDER NO. 88-066

WASTE DISCHARGE REQUIREMENTS
for
VenVirotek

(File No. 84-33)

The California Regional Water Quality Control Board, Los Angeles Region, finds:

1. VenVirotek (the "operator") currently utilizes the Chemfix process at the Bailard Landfill site for the treatment of nonhazardous oil field drilling muds under waste discharge requirements contained in Order No. 87-16, adopted by this Board on January 26, 1987.
2. The Chemfix process is a solidification and chemical fixation process patented by Chemfix Technologies, Inc. (CTI). VenVirotek has a license for this process in which sodium silicate and cement are mixed with the water-based, nonhazardous oilfield drilling mud wastes. VenVirotek contends that reactions of the water soluble silicates in the reagents with the mud transform the drilling mud into a soil-like, solid, nonhazardous material with properties similar to silty clay and suitable for use as daily cover. The product produced in this process is currently used for daily cover at Coastal Landfill.
3. VenVirotek, a California corporation and a wholly owned subsidiary of Chemfix Technologies, Inc., has filed a report of material change to add the following nonhazardous waste streams to the treatment process: Wastewater (oilfield production brine water), Water-based drill cuttings, Oil-based drilling muds, Oil-based drill cuttings, Tank and pit bottom sediments, SO₂ scrubber waste, Contaminated soil, and Municipal sewage sludge.
4. Section 17225.16 of Title 14 of the Code of California Regulations (CCR) defines "cover material" as soil or other material suitable for use in covering compacted solid wastes in a disposal site.
5. Water drilling mud and fluids are listed in the State Department of Health Services' hazardous waste regulations (Section 66680, Chapter 30, Title 22, CCR) as hazardous wastes if the muds or fluids contain hazardous materials. However, the

Department of Health Services developed a list of "Drilling Mud Additives uses in Nonhazardous drilling Muds and Fluids". Waste drilling muds and fluids containing only the listed additives may be managed as nonhazardous wastes, provided they do not contain toxic substances from other sources.

6. The Ventura County Planning Division conducted an Initial Study (environmental evaluation) to determine if this project could significantly affect the environment. The Initial Study determined that the project could have a significant effect on the environment; however, the potentially significant impacts can be satisfactorily mitigated through adoption of identified mitigation measures. Therefore, the Ventura County Planning Division prepared a Mitigated Negative Declaration pursuant to the provisions of the California Environmental Quality Act (CEQA) (Section 15073) which was certified by the County January 22, 1987. In a letter dated November 10, 1987, the Division found that the addition of nonhazardous water-based drilling muds and cuttings, mineral-oil-based drilling muds and cuttings, oilfield wastewater (from tanks and water treatment), and oilfield tank bottom sediments, to the processing waste stream would be Categorically Exempt from CEQA under Section 15301, which exempts a "minor alteration of existing public or private structures . . . involving negligible or no expansion of use beyond that previously existing."

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8. On May 23, 1988, this Board adopted Order No. 88-54 which prescribes waste discharge requirements for the disposal of nonhazardous and inert solid wastes at Bailard Landfill, a Class III Landfill. The landowners of Bailard landfill are W. R. Bailard, et al., but the landfill is operated by Ventura Regional Sanitation District.

9. The Bailard Landfill is located west of Victoria Avenue along the south bank of the Santa Clara River in Ventura County (just outside the city of Oxnard). VenVirotek operates the Chemfix process on a six-acre site at the Bailard Landfill.

IT IS HEREBY ORDERED that VenVirotek shall comply with the following:

A. Acceptable Materials

1. Wastes acceptable for treatment at this facility shall be limited to only nonhazardous wastes as defined by the Department of Health Services. Hazardous waste as defined in Section 25117 of the Health and Safety Code and/or in Title 22, Chapter 30, CCR, shall not be accepted for treatment (or stored) at this facility.

2. The following waste streams are acceptable for treatment at this facility:

- a. Water-based drilling muds and cuttings,
- b. Mineral-oil-based drilling muds and cuttings,
- c. Oilfield wastewater (from tanks and water treatment), and
- d. Oilfield tank bottom sediments.

3. The following waste streams may be acceptable for treatment at this facility upon approval of the Executive Officer. In addition, the Executive Officer may allow treatment of one or more of these waste streams, but may limit the use of produced Chemfix product. (He may direct that it not be used for cover and be disposed of for example.)

- a. Oil-based drilling muds and cuttings other than mineral-oil-based muds and cuttings,
- b. SO₂ scrubber waste,
- c. Contaminated soil, and
- d. Municipal sewage sludge.

4. Waste streams not specifically named above shall not be accepted for treatment at this facility.

B. Chemfix Use Requirements

1. If the Chemfix material is used, the Chemfix material shall only be used as daily cover at Coastal Landfill (unless approved for use at Bailard as provided for below.)

2. Chemfix material used as daily cover shall not have a moisture content greater than 50%.

10. The site configuration consists of three components:

- a. A truck unloading area and drilling mud storage containment,
- b. CTI's processing unit and associated equipment, and the
- c. Chemfix material containment area.

11. The Chemfix process unit is a self-contained system in a forty-foot trailer consisting of liquid and dry reagent storage tanks, reagent metering systems, and a mechanical reagent mixing system.

12. The product Chemfix material is pumped into four bermed, unlined solidification cells, each with a 120,000 cubic-foot capacity. VenVirotek has installed soil moisture sensing devices under each solidification cell to detect any moisture that may leak to the ground below.

13. After several days "drying" time in the solidification cells, the Chemfix material is removed and stockpiled in a bermed area adjacent to the cells for use as daily cover material.

14. The Bailard Landfill lies within the Oxnard Plain Hydrologic Subunit of the Santa Clara-Calleguas Hydrologic Unit of Southern California. The uppermost "semi-perched" aquifer is known to be of poor water quality due to the leaching of poor quality water from agricultural practices in the Forebay area, and from leachate in the vicinity of the landfill (not necessarily leachate from only Bailard, but also other nearby landfills). The underlying Oxnard aquifer, an important water-bearing unit, is used primarily for industrial, agricultural, and domestic supply. Its use is restricted in the vicinity of the landfill to irrigation purposes.

15. The Board adopted a revised Water Quality Control Plan for the Santa Clara River Basin on March 27, 1978. The Plan contains water quality objectives for surface and groundwaters of the Oxnard Hydrologic Subarea. The requirements in this Order as they are met will be in conformance with the goals of the Water Quality Control Plan.

The Board has notified VenVirotek and interested agencies and persons of its intent to prescribe waste discharge requirements for the Chemfix project at the Bailard Landfill.

The Board in a public meeting heard and considered all comments pertaining to the project.

3. Chemfix material shall not be used as daily cover at the Bailard Landfill without prior approval of the Executive Officer.
4. Chemfix material discharged into the solidification cells or stockpiled shall not release liquids containing pollutants to the ground below.
5. Chemfix material used as cover material shall not release liquids into the Coastal or Bailard landfills.
6. Chemfix material which is nonhazardous, and has a moisture content less than 50%, may be disposed of in any Class III landfill in this Region.
7. Chemfix material which is nonhazardous, but has a moisture content between 50% and 80%, may only be disposed of in a Class III landfill in this Region having a leachate collection and removal system and at a minimum solids-to-liquid ratio of 5:1 by weight (assuming the landfill site doesn't have a different site-specific solids-to-liquid ratio requirement).

C. General Requirements

1. Wastes treated or handled at the site shall not be permitted to escape to the ground where they could threaten or pollute groundwater, or to enter drainage ditches or watercourses, where they could threaten or pollute surface water. ("Untreated" wastes shall be defined to include partially treated wastes here and herein below.)
2. The treatment site shall be engineered with appropriate linings and/or dikes to insure that there will be no loss from the site from the untreated waste holding tanks, unloading areas, process unit areas, solidification cells, and stockpile areas due to leakage, flooding, liquefaction, or seismic activity.
3. All untreated waste, Chemfix reagent and product containment areas shall be provided with adequate freeboard to insure against overtopping.
4. There shall be no damage to the community by odors or unsightliness resulting from unreasonable practices in the treatment of wastes at this site, such that it would create a nuisance as defined in Section 13050(m) of the California Water Code (CWC).

5. Neither treatment nor handling of the untreated waste streams, Chemfix material, or reagents shall create pollution (as defined in Section 13050(1) CWC) or nuisance (as defined in Section 13050(m) CWC).

6. The operators shall remove and relocate untreated waste streams or Chemfix materials which are in violation of these requirements.

7. Any untreated waste or Chemfix material removed from the site for disposal shall be disposed of only at a legal disposal site. Any untreated waste or Chemfix material transported from the site shall not be permitted to leak or otherwise escape to the ground or to a watercourse en route to the disposal site. For the purposes of these requirements, a legal site is one for which requirements have been adopted by a Regional Water Quality Control Board and which is in full compliance therewith.

8. Dust emissions from the dry reagent system or the Chemfix material shall not cause a nuisance.

9. Storm runoff, except rain falling directly on the facility, shall be diverted around the site.

10. The Chemfix process site shall be protected from any washout or erosion of wastes or covering materials, and from inundation which could occur as a result of flood having a predicted frequency of once in 100 years or less.

11. Adequate measures shall be taken to prevent a condition of nuisance from fly breeding, rodent harborage, and other vectors.

D. General Provisions

1. The requirements prescribed herein do not authorize the commission of any act causing injury to the property of another, nor protect the operator from his liabilities under federal, state, or local laws.

2. These requirements do not exempt the operator of the Chemfix process facilities from compliance with any other laws, regulations, or ordinances which may be applicable; they do not legalize this treatment facility and they leave unaffected any further restraint on the facility or Chemfix material which may be contained in other statutes or required by other agencies.

3. The operator must comply with all of the terms, requirements and conditions of this order. Any violation of this order constitutes a violation of the California Water Code, and is grounds for enforcement action, order termination, order revocation, or any combination thereof.

4. Any use of the Chemfix material other than specifically described in this order is prohibited, and constitutes a violation of this order.

5. The Regional Board shall be notified of any incident resulting from site operations that may endanger health or the environment by telephone within 24 hours and in writing within seven days. The written notification shall fully describe the incident including what occurred, when it occurred, the duration of the incident, when correction occurred (or when correction will occur if it is a continuing incident), and the steps taken or planned to reduce, eliminate, and/or prevent recurrence. All instances of noncompliance with this Order shall also be reported to the Board in the same manner as stated above for endangerment incidents.

6. In the event the operator is unable to comply with any of the conditions of this order due to:

- a. breakdown of processing equipment;
- b. accidents caused by human error of negligence; or
- c. other causes such as acts of nature;

The operator shall notify the Executive Officer by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written notification shall include pertinent information explaining reasons for the non-compliance and shall indicate what steps were taken to correct the problem and the dates thereof, and what steps are being taken to prevent the problem from recurring.

7. After notice and opportunity for a hearing, this order may be terminated or modified for cause, including, but not limited to:

- a. Violation of any term or condition contained in this order;
- b. Obtaining this order by misrepresentation, or failure to disclose all relevant facts; and/or

c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

8. This order may be modified, revoked and reissued, or terminated for cause. The filing of request by the operators for a modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any condition of this order.

9. This order does not convey any property rights of any sort, or any exclusive privilege.

10. The operator shall furnish, within a reasonable time, any information the Regional Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this order. The operator shall also furnish to the Regional Board, upon request, copies of records required to be kept by this order.

11. All applications, reports, or information submitted to the Regional Board shall be signed:

a. In the case of cooperations, by a principle executive officer at least of the level of vice-president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which discharge originates;

b. In the case of a partnership, by a general partner; or

c. In the case of a sole proprietorship, by the proprietor.

12. A copy of these waste discharge requirements shall be maintained at the treatment facility so as to be available at all times to operating personnel.

13. The operator shall take all reasonable steps to minimize or prevent any discharge that has a reasonable likelihood of adversely affecting human health or the environment.

14. The operator shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) that are installed or used by the operator to achieve compliance with this order. Proper operation and maintenance includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems that are installed by the operators only when necessary to achieve compliance with the conditions of this order.

15. The operator shall give advance notice to the Regional Board as soon as possible of any planned physical alterations or additions to the treatment facilities or of any planned changes in the facilities.

16. The operator shall file with the Board a report of material change at least 120 days before making any material change or proposed change in the types, character, location or volume of wastes or materials treated or Chemfix material disposed or used.

17. In the event of any change in the name, ownership, or control of these treatment facilities, the operator shall notify this Board of such change and shall notify the succeeding owner or operator of the existence of this order by letter, copy of which shall be forwarded to the Board.

18. Regional Board staff shall be allowed entry to the treatment facility, or where records are kept regarding the facility, at any reasonable time. Staff shall be permitted to inspect any area of the facility and any monitoring equipment used to demonstrate compliance with this Order. Staff shall be permitted to copy any records, photograph any area, obtain samples, and/or monitor to assure compliance with this Order, or as authorized by applicable laws or regulations.

19. The operator shall furnish, under penalty of perjury, technical or monitoring program reports in accordance with Section 13267 CWC. Failure or refusal to furnish these reports, or falsifying any information provided therein makes the discharger guilty of a misdemeanor and subject to the penalties stated in Section 13268 CWC. Monitoring reports shall be submitted in accordance with the specifications contained in a Monitoring and Reporting Program prepared by the Executive Officer. This Monitoring and Reporting Program is subject to periodic revisions as warranted.

20. The operator shall file a technical report with this Board not later than 30 days after receipt of this order, relative to the operation and maintenance program for the treatment facilities. The information to be contained in that report shall include, as minimum, the following:

- a. The name and address of the person or company responsible for operation and maintenance of the facility;
- b. Type of maintenance (preventive or corrective); and
- c. Frequency of maintenance, if preventive.

If an operation and maintenance report has been submitted to the Board previously and there have been no changes, a second report need not be provided (although a letter to that affect shall be submitted in lieu of the report).

21. The operator shall file with the Board within 90 days after the effective date of this order, a technical report on their preventive (failsafe) and contingency (cleanup) plans for controlling accidental discharges, and for minimizing the effect of such events. The technical report shall:

- a. Identify the possible sources of accidental discharges, untreated waste bypasses, and contaminated drainages. The loading and storage areas, potential power failures, and the failure of processing equipment, tanks and pipes should be considered;
- b. Evaluate the effectiveness of the present facilities and procedures and state when they became operational;
- c. Describe the facilities and procedures needed for effective preventive and contingency plans; and
- d. Predict the effectiveness of the proposed facilities and procedures and provide an implementation schedule containing interim and final dates when they will be constructed, implemented, or operational.

Board staff, after review of this technical report, may establish conditions which it deems necessary to control accidental discharges and to minimize the effects of such events. Such conditions may be incorporated as part of this order, upon notice to the discharger, and positive consideration by the Board.

If a preventive and contingency plans report has been approved by the Executive Officer previously and there have been no changes, a second report need not be filed, but a letter to that affect shall be filed in lieu of the report.

22. The operator shall have an operating plan for handling any hazardous waste that may be received or identified at the treatment facility. The plan shall be submitted to the Executive Officer for his approval within 30 days of adoption of this order.

If a hazardous waste operating plan has been approved by the Board previously and there have been no changes, a second plan need not be filed, but a letter to that affect shall be submitted in lieu of the plan.

23. The operator shall provide this Regional Board with a list of all chemical compounds and materials used at the Chemfix process site. This list shall include both trade and chemical names and quantities of each. Any subsequent changes in types and/or quantities shall be reported promptly.

If a list has been submitted previously and there have been no changes, a second list need not be submitted, but a letter stating no changes have occurred shall be submitted within 30 days of adoption of this order.

24. This Board's Order No. 87-16, adopted January 26, 1987, is hereby rescinded.

I, Robert P. Ghirelli, Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Region on June 27, 1988.


for ROBERT P. GHIRELLI, D.Env.
Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION
MONITORING AND REPORTING PROGRAM NO. 6689

FOR

VenVirotek
(File No. 84-33)

I. Reporting

A. The discharger shall implement this Monitoring and Reporting Program beginning July 1, 1988. Monitoring reports shall be submitted to the Board quarterly, by the first day of the second month following the close of each calendar quarter. The first monitoring report under this program is due November 1, 1988.

B. Each monitoring report must affirm in writing that all analyses were conducted at a laboratory certified for such analyses in accordance with Section 13176 of the Water Code and in accordance with current EPA guideline procedures, 40 CFR Part 261, or as specified in this Monitoring Program.

C. For any analyses performed for which no procedures are specified in the EPA guidelines or in this Monitoring Program, the constituent or parameter analyzed and the method or procedure used must be specified in the report.

D. The discharger may submit additional data to the Board not required by this Program in order to simplify reporting to other regulatory agencies.

E. The following items in the attached "General Monitoring and Reporting Provisions" shall be applicable to this program: Items 1,4,5,7,8(with the exception that the report shall be due March 1st of each year),10,11,12,14, and 15.

F. Quarterly monitoring shall be performed during the months of February, May, August, and November.

G. Where the units for a parameter are listed as ug/l (ppb), suitable analytical techniques shall be used to achieve this precision. All minimum limits of detection shall be below the current Drinking Water Action Levels recommended by the Department of Health Services, Sanitary Engineering Branch, or the minimum limit of detection specified in EPA Methods, or Appendix A, 40 CFR 136, if the Action Level is not achievable.

T-1

H. Analytical data reported as "less than" shall be reported as less than a numeric value or below the limit of detection for that particular analytical method (also the limit of detection shall be noted).

I. All analytical samples obtained for this Program shall be grab samples.

J. If the discharger performs analyses for any parameter more frequently than required by this Program using approved analytical methods, the results of those analyses shall be included in the monitoring report.

K. In the event that hazardous, designated or other unacceptable wastes are detected at the site, the type, source, quantity and disposition of those wastes shall also be reported. If no unacceptable wastes are detected during the monitoring period, the report shall so state.

L. VenVirotek shall retain records of all monitoring information, including all calibration and maintenance records regarding monitoring instrumentation, and copies of all data submitted to regulatory agencies for a period of at least five years. This period may be extended by request of the Executive Officer at any time and shall be extended during the course of any unresolved litigation regarding all or any part of the site.

M. Records of monitoring information shall include:

- a. The date, exact place, and time of sampling or measurement;
- b. The individual(s) who performed the sampling or measurement;
- c. The date(s) analyses were performed on the samples;
- d. The individual(s) who performed the analyses;
- e. The analytical techniques or methods used; and
- f. The results of the analyses or measurements.

II. Treatment Process Reporting

All quarterly reports submitted to the Board shall contain the following information:

1. A tabular list of the sources, types and volumes of all wastes to be treated received daily. (Each volume of waste must be identified according to source and type.)
2. VenVirotek shall certify either by the procedures contained in Section 66305, Title 22 CCR, or based on acceptable analytical data, that each load of waste to be treated is nonhazardous.
3. A tabular list of the monthly totals of all the types and volumes of each waste received which corresponds to the Acceptable Materials lists in the waste discharge requirements.
4. A tabular list of the volume of Chemfix material produced daily.
5. A tabular list of dates, volumes, and locations of Chemfix material that was used as daily cover; these locations shall be specifically indicated on a map and submitted to the Board.
6. A tabular list of dates, volumes, and locations of the ultimate disposal of any untreated or partially treated wastes that were not processed, or Chemfix material that was not used as daily cover. If all the Chemfix material produced during the monitoring period was used, a statement to that affect shall be submitted with each monitoring report.
7. If the soil moisture sensing devices detect any leakage from the Chemfix material to the ground below the solidification cells, the operator shall report the estimated volume, location, and dates of leakage. If no leakage was detected, the operator shall so state this in each report.
8. A tabular list of the names and addresses of the waste generators and haulers during the quarter.
9. All analytical results and dates the samples were taken and analyzed during the quarter.
10. A certification that all wastes received, processed, handled, or disposed of were in compliance with the Board's requirements.

III. Sampling and Analyses

Representative samples shall be obtained and analyzed as follows:

A. Incoming Wastes

Monthly analyses of the incoming wastes shall be performed for the following parameters. The sample shall be representative of the waste mixture to be treated. If any waste stream(s) is routinely treated uncombined with all the other waste streams, it shall be sampled and analyzed separately.

<u>Parameters</u>	<u>Units</u>
pH	pH units
Electrical conductivity	umhos/cm
Oil and grease (EPA Method 418.1)	mg/l
Total petroleum hydrocarbons (EPA Method 8020 or 8015 modified)	ug/l
Total organic carbon	mg/l
Moisture content	percent

B. Chemfix Material (in Solidification Cells)

Monthly analyses of the Chemfix product material shall be performed for the following parameters:

<u>Parameters</u>	<u>Units</u>
Permeability ¹	cm/sec
Cationic exchange capacity	meq/100 mg
Unconfined compressive strength	PSF
Moisture content	percent

C. Chemfix Material (in stockpiles)

A representative sample of each stockpile of Chemfix material shall be obtained and analyzed immediately prior to its use as daily cover for moisture content:

<u>Parameter</u>	<u>Units</u>
Moisture content	percent

¹ Since the sample preparation affects the permeability test results, the specifics of sample preparation shall also be reported. The permeability shall be relative to water.

D. Additional Hazardous Waste Sampling and Analyses

In addition to the above, once each calendar quarter, samples of the untreated waste(s) and treated Chemfixed material of the same waste(s), shall be tested in accordance with Section 66700, Title 22 CCR (WET) to determine the Soluble Threshold Limit Concentration (STLC) and the Total Threshold Limit Concentration (TTLC) values for the following parameters:

Antimony and/or its compounds
Arsenic and/or its compounds
Asbestos
Barium and/or its compounds
(excluding barite)
Beryllium and/or its compounds
Cadmium and/or its compounds
Chromium (VI) compounds
Chromium (III) and/or its compounds
Cobalt and/or its compounds
Copper and/or its compounds
Fluoride salts
Lead and/or its compounds
Mercury and/or its compounds
Molybdenum and/or its compounds
Nickel and/or its compounds
Selenium and/or its compounds
Silver and/or its compounds
Thallium and/or its compounds
Vanadium and/or its compounds
Zinc and/or its compounds

Also, these same samples shall be analyzed for volatiles, semi-volatiles, pesticides and PCB's using EPA Methods 8240, 8270, and 8080. (Other acceptable Methods such as 8010 and 8020, etc., may be substituted for 8240 upon written request and approval.) All peaks greater than 10% of the internal standard shall be identified and quantified for gas chromatography analyses. The analyses shall be compared against both the TTLC and STLC limits in Title 22 as applicable. The analytical precision of each analysis must be such that this comparison can be made.

Ordered by : Richard A. Harris
for Executive Officer

Date: June 27, 1988

T-5

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

GENERAL MONITORING AND REPORTING PROVISIONS

1. All sampling, sample preservation, and analyses shall be performed in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants", promulgated by the United States Environmental Protection Agency.
2. All chemical, bacteriological, and bioassay analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health.
3. Effluent samples shall be taken downstream of any addition to the treatment works and prior to mixing with the receiving waters.
4. The discharger shall calibrate and perform maintenance procedures on all monitoring instruments and equipment to ensure accuracy of measurements, or shall ensure that both activities will be conducted.
5. A grab sample is defined as an individual sample collected in fewer than 15 minutes.
6. A composite sample is defined as a combination of no fewer than eight individual samples obtained over the specified sampling period. The volume of each individual sample is proportional to the discharge flow rate at the time of sampling. The sampling period shall equal the discharge period, or 24 hours, whichever period is shorter.
7. For every item where the requirements are not met, the discharger shall submit a statement of the actions undertaken or proposed which will bring the discharge into full compliance with requirements at the earliest time and submit a timetable for correction.
8. By January 30 of each year, the discharger shall submit an annual report to the Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. In addition, the discharger shall discuss the compliance record and the corrective actions taken or planned which may be needed to bring the discharge into full compliance with the waste discharge requirements.
9. The discharger shall maintain all sampling and analytical results, including strip charts; date, exact place, and time of sampling; date analyses were performed; analyst's name, analytical techniques used; and results of all analyses. Such records shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge of when requested by the Board.

10. In reporting the monitoring data, the discharger shall arrange the data in tabular form so that the data, the constituents, and the concentrations are readily discernible. The data shall be summarized to demonstrate compliance with waste discharge requirements and, where applicable, shall include results of receiving water observations.
11. Monitoring reports shall be signed by:
- a. In the case of corporations, by a principal executive officer at least of the level of vice-president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates;
 - b. In the case of a partnership, by a general partner;
 - c. In the case of a sole proprietorship, by the proprietor;
 - d. In the case of a municipal, state or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.
12. Each report shall contain the following completed declaration:
- " I declare under penalty of perjury that the foregoing is true correct.
- Executed on the _____ day of _____ at _____.
- _____(Signature)
- _____(Title)"
13. The discharger shall mail a copy of each monitoring report to the following:
- California Regional Water Quality
Control Board - Los Angeles Region
107 South Broadway, Room 4027
Los Angeles, CA 90012
- ATTN: Executive Officer
14. If no flow occurred (or no waste was deposited) during the reporting period, the report shall so state.
15. These records and reports are public documents and shall be made available for inspection during business hours at the office of the California Regional Water Quality Control Board, Los Angeles Region. Records or reports which might disclose trade secrets, etc., may be excluded from this provision as provided in Section 13267 (b) of the Porter-Cologne Water Quality Control Act, if requested.

CORRESPONDENCE - SECTION IV

Continuance of Correspondence,

when Section III is full.

*** Chronological Order ***

SMU / LUFT TECHNICAL REVIEW COMMITTEE DATA SHEET

S.A. Wkpln ☐ Site Assessment ☐ RAP Wkpln ☐ RAP ☐ Closure ☒ Other ☐

Specialist: RICHARD EVANS Date Submitted: 5/6/92 Report Date: 4/28/92

FOLLOWING IS THE DATA REQUIRED (subject change) FOR THE COMMITTEE TO PROPERLY REVIEW THE REPORT WITHOUT SPENDING EXTENSIVE TIME REVIEWING THE COMPLETE SITE FILES. THIS DATA SHEET IS TO BE PROVIDED BY THE SPECIALIST UPON SUBMISSION OF THE REPORT TO THE COMMITTEE. INCLUDE A COPY OF ALL PERTINENT DATA NOT CONTAINED IN THIS REPORT.

Site Name: ORCHARD SERVICES/SPTC PROPERTY SMU/LUFT#: 50119
Site Address: 399 LINDEN City: CARPINTERIA

Contamination: Soil ☒ Groundwater ☐ Free Product ☐ Thickness: ☐
Substance released: STANDARD SOLVENT Estimated amount: UNKNOWN
Release (length of time) 1 month ☐ 3 mo. ☐ 6 mo. ☐ 1 yr. ☐ >1 yr. ☐
(time since release) ☐

Assessment Complete? YES Date? 10/22/90

Interim Remediation? EXCAVATION OF CONTAMINATED AREA

SOILS

Soils type: site typical (lithology)

surface - 5 ft LOOSE ORGANIC RICH S.S.
- 10 ft CLAY W/ SAND
- 11 ft GROUNDWATER
- ft
- ft

Soil Plume delineated? (Boring Number)

Lateral limits North ☐ East ☐ South ☐ West ☐
Vertical " Pit 1 ' N. 1 ' E. 1 ' S. 1 ' W. 1 '
Estimated Volume of Contaminated Soil: 2150 CUBIC YARDS

GROUNDWATER

Depth to Groundwater 10.5' BGS Depth to gw from bottom of contamination

Groundwater Plume delineated? (Monitoring Well #)

Laterally North ☐ South ☒ East ☒ West ☒

Groundwater elevations: Highest 9.0' Lowest 12.0' Ave. 10.5' 19 ft. confined

Gradient - height extremes between wells:

Flow direction: SOUTH WESTERLY Variations:

TOWARD OCEAN

TRC WILL RESPOND TO SUBMISSIONS WITHIN TWO WEEKS

Consultant's Conclusion:

Contaminated soils were excavated and verification samples were taken that indicate that the remediation of the soils was complete. Groundwater monitoring was not detected for all 3 monitoring wells for two consecutive quarters.

Proposed Remediation?

The proposed remediation for the site was to excavate the impacted soils which was completed.

Specialists Comments & Concerns:

Based on the assessment of the site and the remediation of the soils and groundwater monitoring, lab analysis it appears that this site should be granted closure.

Extenuating Circumstances?

critical groundwater sampling did not follow SBCLP protocol.

TRC REVIEW:

This site has met the criteria of SBCLP for closure. Formal closure for the site must come from the RWQCB due to the fact that groundwater was assessed. SBCLP will not give approval for the abandonment of the 3 monitoring wells until the RWQCB has agreed to close the site.

Signature:

Barbara A. Forte, John Moore, Richard Evans

Agri-Room - Site Investigation
and Remediation Report
349 Linden Avenue, Carpinteria
LUFT # 50119

5/13/92

Site Activities

1. Tank removals (3) ~~as holes in 250 & 1000 gallon tks~~
2. Soil Excavation ~~2-4~~
3. Monitoring well Installation (3)
4. Monitoring well abandonment/destruction

Soils - Regulated Waste (CA)

25 cubic yards
Formed into 5 stacks

Feb. 1990 - Tank Pail / Soil Samples

Three tanks excavated (250, 100, 1,000 gallon tks)

25 cubic yards soil excavated

Soil contaminated with (6-10ft bgs):

BTEX } samples below cleanup levels

Lead } 400 - 3800 ppm

TPH (solvent and gasoline)

4 samples analyzed (2 from stock pile)

CS-1

CS-2

CS-3

CS-4

Noted that contaminated soils were under bldgs + in center of yard

July 1991 - Additional Excavation and Sampling

150 cubic yards excavated

Soil contaminated with solvent (TPH)

~~was~~ N. wall @ 10ft
sample # 11888
TPH = 2500 ppm

SE Flies @ 11ft

sample # 11885

TPH = 7,111

4 samples analyzed (2 from stock pile)

11882

11881

11886

11889

Noted clay layer at 10ft where water began entering the pit

October 1990 Damaged Bridge / Additional Sampling

Prior to excavation

Excavation of contaminated soils Oct 5, 1990

Trenching activities

Visible soil contamination

4 ft layer

between 6 + 10 ft bgs

clay layer at 10 ft.

Final excavation size

56' x 64' x 10'

100 gallon tank discovered

excavated

no filler pipes or lines (must have been removed)

460 cys manifested to McKittick LF

8 verification samples collected (Fig 2) (Table 3)
10 ft bgs

Subsurface Conditions

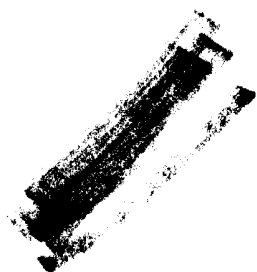
Silty sands, sandy clays, gravelly sands
separated by various thickness of clay.

General thickness is 1-5 ft

Soils are moist. However, it appears that
the groundwater level is approximately
10.5 ft. bgs. Transitional zone

Confined - encountered 19 ft bgs
rose to 9-10.5 ft bgs
major contamination between 6-10 ft bgs

No sample collected beneath former 100
gallon capacity tank or 1000 gall tank



Special Circumstances

small area located near NE wall

TPH - 2,600 mg/kg

statement in report

No certificate from Engineer stating such

Near rail road tracks

Groundwater Test Completed

4/14/92

Report Received - Groundwater

Sampling and Soil Disposal Report

SBCAD Site No. 50119 - Linden Ave

Site Activities

Sampling 3 groundwater monitoring wells for:

EPA 8036

EPA 8260 (Gasoline, Diesel & Stoddard)

Test Results - ND

Groundwater Gradient

- measurement of in MSL values
- calculation and not provided for gradient projection
- groundwater depth - 10.5 bgs
- water purged from well (2" dia)
 - mw-1 = 41 gallons
 - mw-2 = 40 gallons
 - mw-3 = 40 gallons



Ground Water Analysis Completed

EPA Method 5030

EPA Method 8260

Fingerprint

includes 8010 + 8020 constituents

Require 2 consecutive clean samples

Soil Excavation + Treatment

• 735 tons excavated

• Chemtix

• Disposal at Ventura Landfill

Class _____ Landfill

• Manifest — 18 yds $\times$ 30 = 540 yds

Report Signature

Project Manager's _____

Require Reg. Engr/Geologist

Conclusions

Monitoring wells 1 through 7 constructed to penetrate through clay at approximately 11 ft bgs.

Worst case contaminated soil had the following detection values after the tank was pulled.

Lead = 120 ppm (TLC)

TPH = 3,800

Benzene = .10

(E end of excavation)

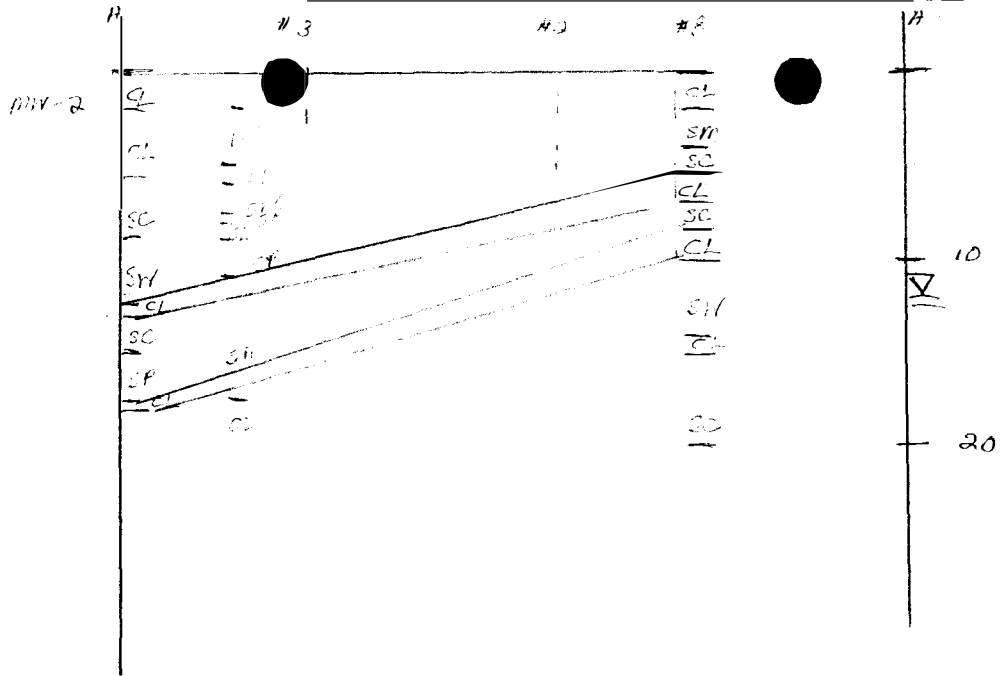
Toluene = .59

Ethylbenzene = 2.8

Xylene = .72

These soils have been excavated and verification samples are non-detect for all samples collected (9) except one area adjacent to the railroad tracks (TPH = 2,800) east of 250 gallon capacity tank.

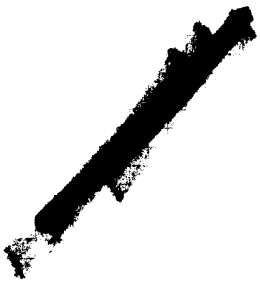




#3 = 11885 @ 10 ft

#2 = 11892 @ 10 ft

#3 = 11888 at 10 ft (near MH-1)



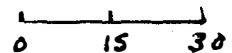
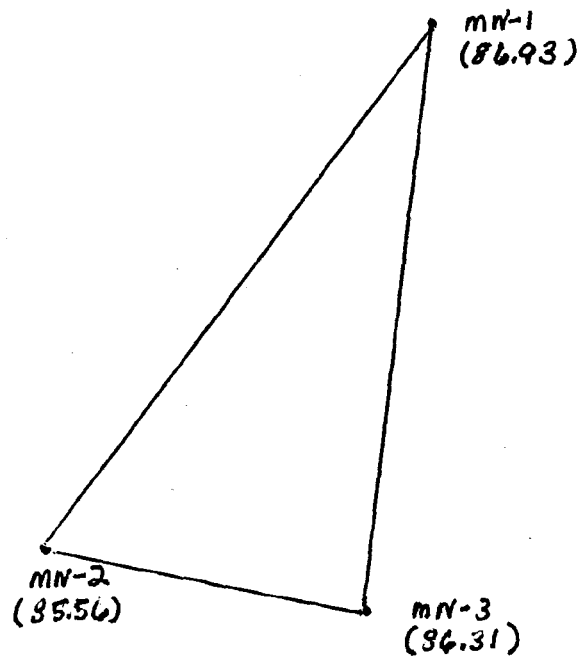
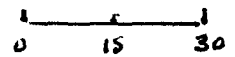
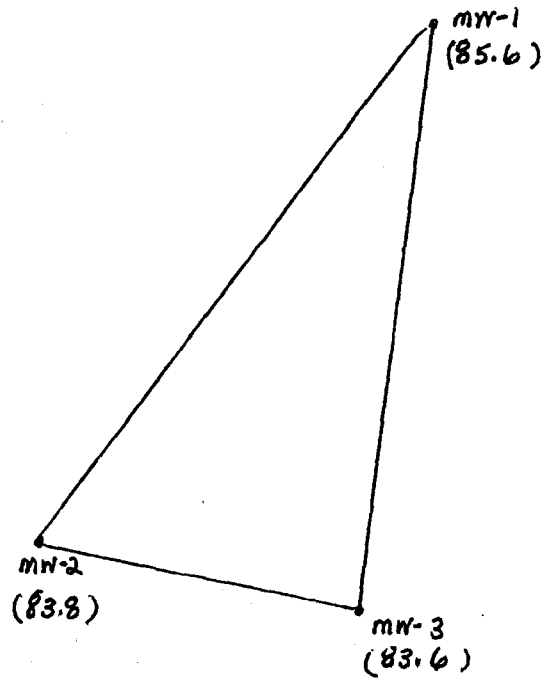
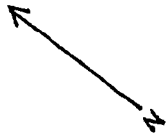
The following initial sample locations numbers are not indicated on the site maps.

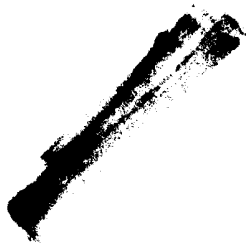
Sample No.	Sample Location
11062	CS-1
11061	CS-2
11060	CS-3
11059	CS-4

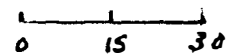
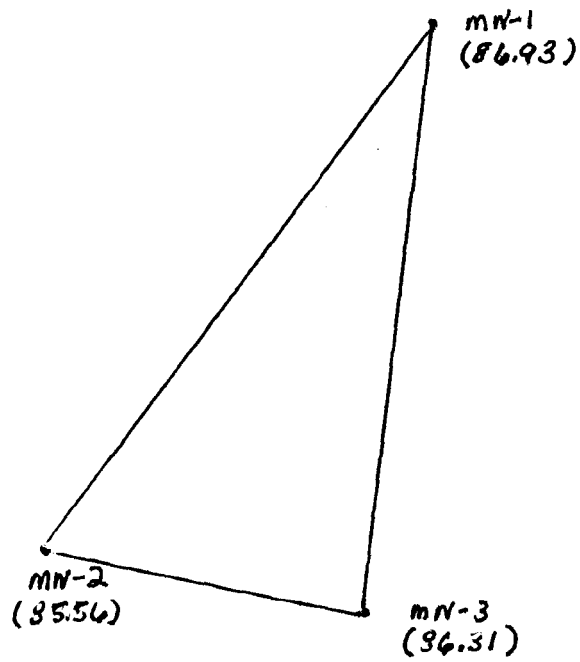
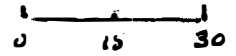
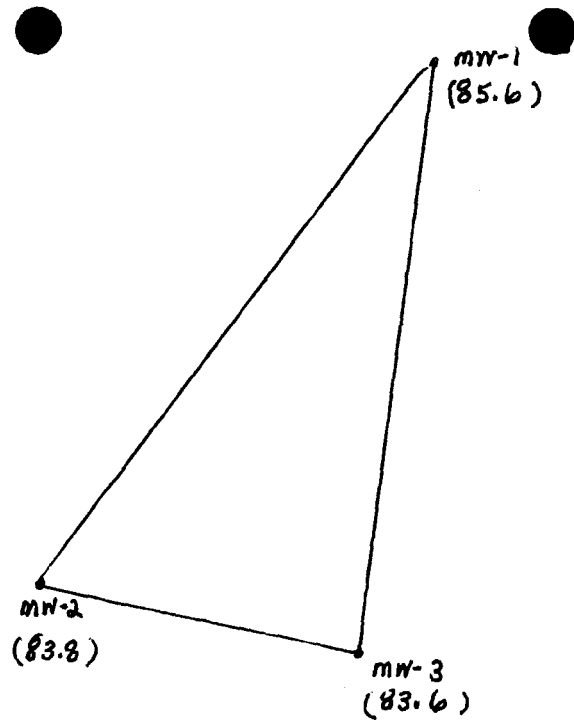
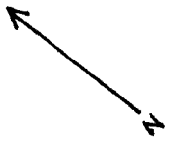
Site Assessment and verification samples delineate that remediation is completed in all but one small area, east of excavated area near 250 gal. tk (former tk)
Field Notes From DeAnna - This area was excavated

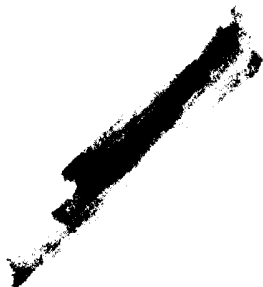
pushed
Groundwater is shallow @ ≤ 10 ft bgs. County cleanup levels for TPH are 100 ppm. Groundwater is not impacted after how many consecutive samples. What was depth of tank. Where they below the first clay encountered at about 0-5 ft. below gs.
Recommendation

1. Corroborate soil contamination east of tank excavation and hot area (if possible) to estimate the quantity of TPH left in place - done - confirm with record this in the field.
2. If contaminated soil is within a small localized area. Close site.





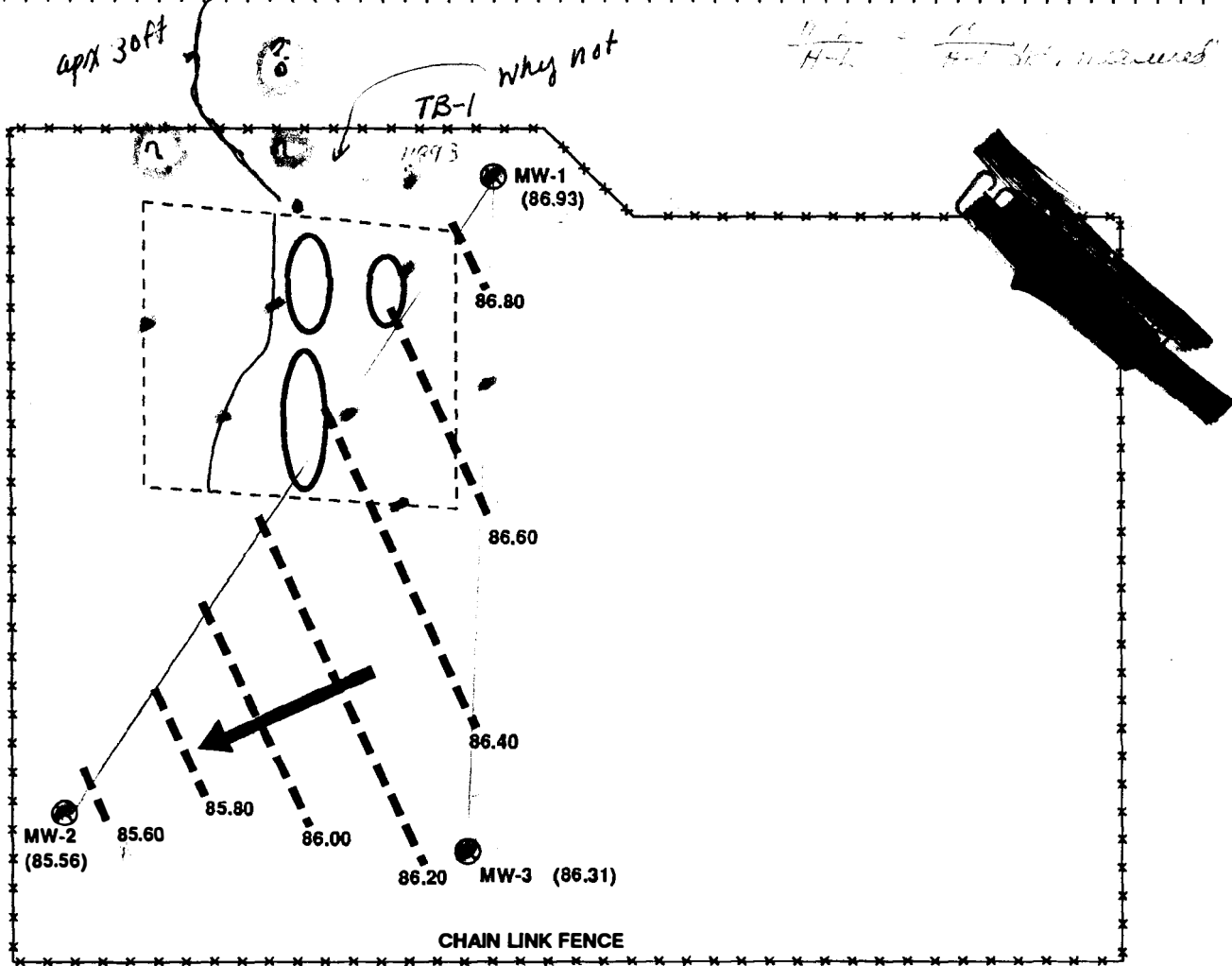




ck. g.w. gradient

North

RR TRACK



LEGEND

- **TPH 2800**
- FORMER UST LOCATION
- ⊗ MW-1 (86.93) MONITORING WELL (ELEVATION)
- 86.20 --- LINE OF EQUAL WATER ELEVATION BASED ON ARBITRARILY ASSIGNED DATUM
- ← GENERAL DIRECTION OF GROUNDWATER FLOW

NOTE: Water level countours based on measurements taken on November 16, 1990.



SP ENVIRONMENTAL SYSTEMS, INC.

PROJECT NO: 05149

DATE: 11/16/90

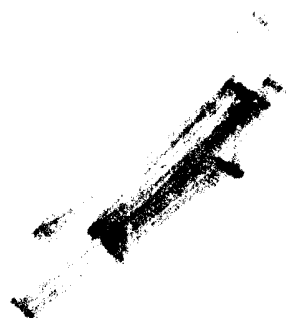
DRAWN BY: PD

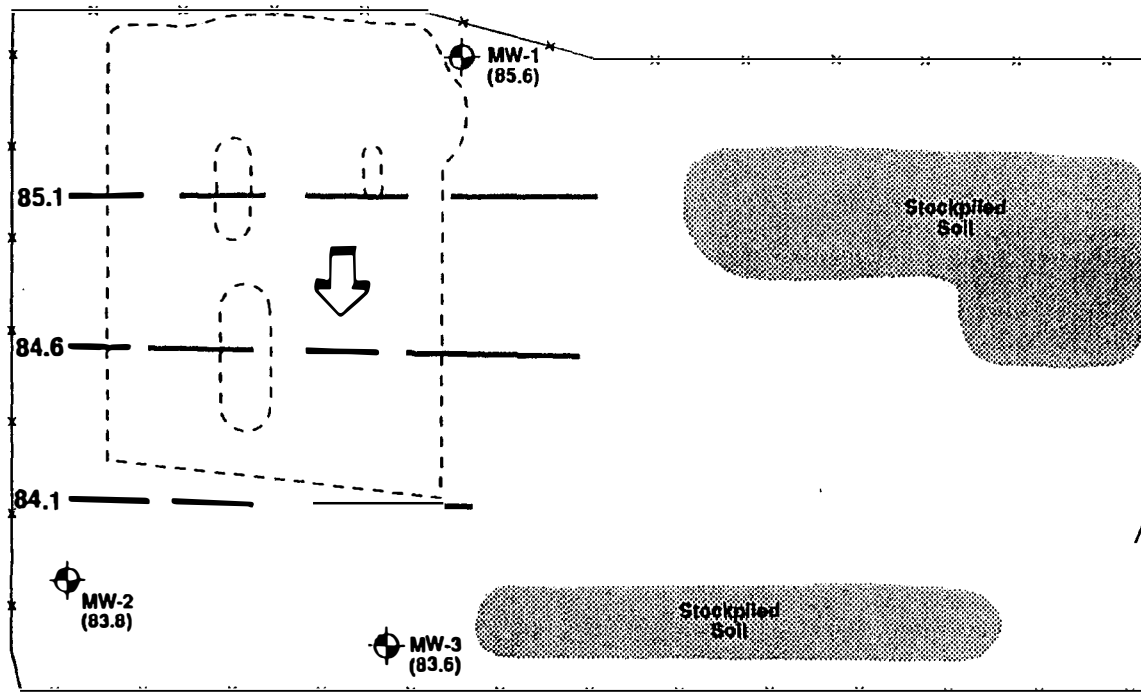
CHECKED BY: DCG

**POTENTIOMETRIC SURFACE MAP
ORCHARD SERVICES
CARPINTERIA, CALIFORNIA
SOUTHERN PACIFIC TRANSPORTATION CO.**

**FIGURE
3**

**N.T.S.
SCALE**





LEGEND

- MW-2 (83.8) Monitoring Well Groundwater Elevation
- Groundwater Contour Line
- Denotes Direction of Gradient (S 60° W)
- Previous Excavation
- Railroad Tracks
- Fence

Well	Top of Casing Surveyed Elevation (ft msl)	Depth to Water (ft msl)	Calculated Groundwater Elevation (ft msl)
MW-1	97.927	12.3	85.6
MW-2	96.136	12.33	83.8
MW-3	96.569	12.93	83.6

Industrial Compliance, Inc. A Subsidiary of SP Environmental Systems, Inc.	
PROJECT NO: 05149	DATE: 04/28/92
DRAWN BY: PD	CHECKED BY: AN

GROUNDWATER GRADIENT MAP
SOUTHERN PACIFIC TRANSPORTATION CO.
 399 LINDEN AVENUE
 CARPINTERIA, CALIFORNIA

FIGURE
3

SCALE:
as shown

Approx. Scale in Feet
 0 15 30

NorCal Division (San Jose Laboratory)
 2059 Junction Ave.

San Jose, CA 95131
 (408) 955-9077

CLIENT: Todd Hook
 S.P. Environmental Systems
 9719 Lincoln Village Suite 310
 Sacramento, CA 95827

Lab Number : GE-2588-1
 Project : 05149 Carpinteria CA
 Analyzed : 12/16/91
 Analyzed by: MM
 Method : As Listed

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED	
13174 Well#2. Groundwater	Groundwater	Mark Barros	12/11/91	12/11/91
CONSTITUENT	(CAS RN)	*PQL µg/L	RESULT µg/L	NOTE
PURGEABLE AROMATICS (BTEX)				1,2
Benzene	(71432)	0.5	ND	
Toluene	(108883)	0.5	ND	
Ethylbenzene	(100411)	0.5	ND	
Xylenes		0.5	ND	
Percent Surrogate Recovery			100.	

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) ANALYZED by CAL DHS DRAFT TPH (modified) and EPA 8260 (GC/MS)

(2) EXTRACTED by EPA 5030 (purge-and-trap)

03/02/93
 MSD1
 MC/mcc

Respectfully submitted,
 COAST-TO-COAST ANALYTICAL SERVICES, INC.


 Marissa Coronel
 Laboratory Director



Air, Water & Hazardous Waste Sampling, Analysis & Consultation
Certified Hazardous Waste, Chemistry, Bacteriology & Bioassay Laboratories

San Luis Obispo, CA • Benicia, CA • Camarillo, CA • San Jose, CA • Goleta, CA
Anaheim, CA • Tempe, AZ • Valparaiso, IN • Westbrook, ME • Indianapolis, IN

NorCal Division (San Jose Laboratory)
2059 Junction Ave.

San Jose, CA 95131
(408) 955-9077

CLIENT: Todd Hook
S.P. Environmental Systems
9719 Lincoln Village Suite 310
Sacramento, CA 95827

Lab Number : GE-2588-2
Project : 05149 Carpinteria CA
Analyzed : 12/16/91
Analyzed by: MM
Method : As Listed

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED		
13178 Well#1. Groundwater	Groundwater	Mark Barros	12/11/91	12/11/91	
CONSTITUENT	(CAS RN)	*PQL µg/L	RESULT µg/L	NOTE	
PURGEABLE AROMATICS (BTEX)				1,2	
Benzene	(71432)	0.5	ND		
Toluene	(108883)	0.5	ND		
Ethylbenzene	(100411)	0.5	ND		
Xylenes		0.5	ND		
Percent Surrogate Recovery			96.		

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) ANALYZED by CAL DHS DRAFT TPH (modified) and EPA 8260 (GC/MS)

(2) EXTRACTED by EPA 5030 (purge-and-trap)

03/02/93
MSD1
MC/mcc

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.


Marissa Coronel
Laboratory Director

NorCal Division (San Jose Laboratory)
2059 Junction Ave.San Jose, CA 95131
(408) 955-9077CLIENT: Todd Hook
S.P. Environmental Systems
9719 Lincoln Village Suite 310
Sacramento, CA 95827Lab Number : GE-2588-3
Project : 05149 Carpinteria CA
Analyzed : 12/16/91
Analyzed by: MM
Method : As Listed

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED		
15542 Well#3. Groundwater	Groundwater	Mark Barros	12/11/91	12/11/91	
CONSTITUENT	(CAS RN)	*PQL µg/L	RESULT µg/L	NOTE	
PURGEABLE AROMATICS (BTEX)				1,2	
Benzene	(71432)	0.5	ND		
Toluene	(108883)	0.5	ND		
Ethylbenzene	(100411)	0.5	ND		
Xylenes		0.5	ND		
Percent Surrogate Recovery			94.		

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) ANALYZED by CAL DHS DRAFT TPH (modified) and EPA 8260 (GC/MS)

(2) EXTRACTED by EPA 5030 (purge-and-trap)

03/02/93
MSD1
MC/mccRespectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.
Marissa Coronel
Laboratory Director

NorCal Division (San Jose Laboratory)
2059 Junction Ave.San Jose, CA 95131
(408) 955-9077CLIENT: Todd Hook
Industrial Compliance
9719 Lincoln Village Suite 310
Sacramento, CA 95827Lab Number : GF-1048-1
Project : 05149 399 Linden,
Carpenteria
Analyzed : 04/09/92
Analyzed by: WH
Method : As Listed

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED		
17666 Well #1	Groundwater	Evelyn Ransom	03/31/92	04/01/92	
CONSTITUENT	(CAS RN)	*PQL µg/L	RESULT µg/L	NOTE	
PURGEABLE AROMATICS (BTEX)				1,2	
Benzene	(71432)	0.5	ND		
Toluene	(108883)	0.5	ND		
Ethylbenzene	(100411)	0.5	ND		
Xylenes		0.5	ND		
Percent Surrogate Recovery			79.		

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) ANALYZED by CAL DHS DRAFT TPH (modified) and EPA 8260 (GC/MS)

(2) EXTRACTED by EPA 5030 (purge-and-trap)

03/02/93
MSD1
MC/mccRespectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.
Marissa Coronel
Laboratory Director

NorCal Division (San Jose Laboratory)
2059 Junction Ave.San Jose, CA 95131
(408) 955-9077CLIENT: Todd Hook
Industrial Compliance
9719 Lincoln Village Suite 310
Sacramento, CA 95827Lab Number : GF-1048-2
Project : 05149 399 Linden,
Carpenteria
Analyzed : 04/09/92
Analyzed by: MM
Method : As Listed

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED		
17667 Well #2	Groundwater	Evelyn Ransom	03/31/92	04/01/92	
CONSTITUENT	(CAS RN)	*PQL µg/L	RESULT µg/L	NOTE	
PURGEABLE AROMATICS (BTEX)				1,2	
Benzene	(71432)	0.5	ND		
Toluene	(108883)	0.5	ND		
Ethylbenzene	(100411)	0.5	ND		
Xylenes		0.5	ND		
Percent Surrogate Recovery			82.		

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) ANALYZED by CAL DHS DRAFT TPH (modified) and EPA 8260 (GC/MS)

(2) EXTRACTED by EPA 5030 (purge-and-trap)

03/02/93
MSD1
MC/mccRespectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.
Marissa Coronel
Laboratory Director

NorCal Division (San Jose Laboratory)
2059 Junction Ave.

San Jose, CA 95131
(408) 955-9077

CLIENT: Todd Hook
Industrial Compliance
9719 Lincoln Village Suite 310
Sacramento, CA 95827

Lab Number : GF-1048-3
Project : 05149 399 Linden,
Carpenteria
Analyzed : 04/09/92
Analyzed by: JJ
Method : As Listed

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED		
17668 Well #3	Groundwater	Evelyn Ransom	03/31/92	04/01/92	
CONSTITUENT	(CAS RN)	*PQL µg/L	RESULT µg/L	NOTE	
PURGEABLE AROMATICS (BTEX)				1,2	
Benzene	(71432)	0.5	ND		
Toluene	(108883)	0.5	ND		
Ethylbenzene	(100411)	0.5	ND		
Xylenes		0.5	ND		
Percent Surrogate Recovery			80.		

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) ANALYZED by CAL DHS DRAFT TPH (modified) and EPA 8260 (GC/MS)

(2) EXTRACTED by EPA 5030 (purge-and-trap)

03/02/93
MSD1
MC/mcc

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.


Marissa Coronel
Laboratory Director



VenVirotek, 1536 Eastman Ave., Suite A, Ventura, California 93003 • 805-654-1900

August 8, 1991

Santa Barbara County
Environmental Health
5540 Ekwil Street
Suite B
Santa Barbara, California 93111

Attn: Deanna Cummings

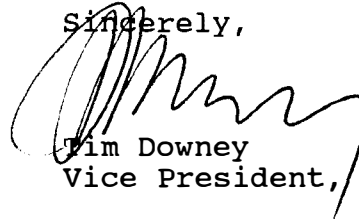
Dear Deanna:

Enclosed for your review is a summary of the test data which VenVirotek performed on samples of the material retrieved from the Southern Pacific Site in Carpinteria, California. Also enclosed is a grid map noting where the various grab samples were retrieved, in order to develop the composite sample utilized in this testing. All of the work was performed by BTC Environmental, a California certified lab.

Once you have had a chance to review the data please give me a call so we can discuss the disposition of the contaminated material at the Carpinteria Site.

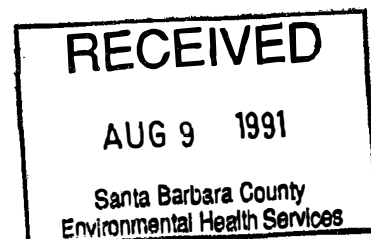
Thank you for your attention in this matter. I can be reached in Ventura at (805) 654-1900.

Sincerely,



Tim Downey
Vice President, Gen. Manger

Enclosures
TD:md:cumming.ltr



METAL ANALYSIS SUMMARY

METALS	PQL	TTL	PQL	STL	CAM LIMITS		EPA
	TTL	(mg/Kg)	STL	(mg/L)	TTL	STL	
					(mg/Kg)	(mg/L)	METHOD
Antimony	10	BQL	5		500	15	6010
Arsenic	3	21	1	1.6	500	5	7060
Barium	20	120	5	6	10000	100	6010
Beryllium	0.5	BQL	0.5		75	0.75	6010
Cadmium	0.5	1	0.5	BQL	100	1	6010
Chromium	50	BQL	50		2500	560	6010
Cobalt	20	BQL	10		8000	80	6010
Copper	10	26	5	BQL	2500	25	6010
Lead	3	74	3	BQL	1000	5	6010
Mercury	0.1	BQL	0.1		20	0.2	7471
Molybdenum	50	BQL	20		3500	350	6010
Nickel	10	34	5	BQL	2000	20	6010
Selenium	0.5	BQL	0.2		100	1	7740
Silver	1	BQL	0.5		500	1	6010
Thallium	5	BQL	3		700	7	6010
Vanadium	10	50	10	BQL	2400	24	6010
Zinc	100	BQL	50		5000	250	6010

BQL: Below Quantitation Limit

PQL: Practical Quantitation Limit

WET ANALYSIS SUMMARY

<u>COMPOUND</u>	<u>RESULT</u>	<u>UNITS</u>	<u>PQL</u>	<u>METHOD</u>
Flash Point	>220	°F	60	1010
Fluoride	170	mg/Kg	1	340M
Hexavalent Cr*	BQL	mg/Kg	1	7196
Oil & Grease	240	mg/Kg	10	9071
pH (Corrosivity)	7.8	S.U.	--	9045
T.P.H.	430	mg/Kg	10	418M

ASBESTOS BULK SAMPLE ANALYSIS

MICROSCOPIC ANALYSIS

<u>Type</u>	<u>Percent</u>
CHRYBOTILE	0
AMOSITE	0
CROCIDOLITE	0
TOTAL ASBESTOS:	0%
<u>Non-Asbestos Fiber and Content Percent</u>	
None	0%

GC/MS
BASE/NEUTRAL PRIORITY POLLUTANTS/HAZARDOUS SUBSTANCE COMPOUNDS
EPA 8270

<u>COMPOUND</u>	<u>CONCENTRATION</u> (ug/Kg)	<u>PQL</u> (ug/Kg)
Benzidine	BQL	1700.
bis(2-Chloroethyl) ether	BQL	1700.
1,3-Dichlorobenzene	BQL	1700.
1,4-Dichlorobenzene	BQL	1700.
1,2-Dichlorobenzene	BQL	1700.
bis(2-Chloroisopropyl) ether	BQL	1700.
N-Nitroso-di-n-propylamine	BQL	1700.
Hexachloroethane	BQL	1700.
Nitrobenzene	BQL	1700.
Isophorone	BQL	1700.
bis(2-Chloroethoxy) methane	BQL	1700.
1,2,4-Trichlorobenzene	BQL	1700.
Naphthalene	BQL	1700.
Hexachlorobutadiene	BQL	1700.
Hexachlorocyclopentadiene	BQL	1700.
2-Chloronaphthalene	BQL	1700.
Dimethylphthalate	BQL	1700.
2,6-Dinitrotoluene	BQL	1700.
Acenaphthylene	BQL	1700.
Acenaphthene	BQL	1700.
2,4-Dinitrotoluene	BQL	1700.
Diethylphthalate	BQL	1700.
4-Chlorophenyl-phenylether	BQL	1700.
Fluorene	BQL	1700.
N-Nitrosodiphenylamine	BQL	1700.
4-Bromophenyl-phenylether	BQL	1700.
Hexachlorobenzene	BQL	1700.
Phenanthrene	BQL	1700.
Anthracene	BQL	1700.
Pyrene	BQL	1700.
Di-n-butylphthalate	BQL	1700.
Fluoranthene	BQL	1700.
Butylbenzylphthalate	BQL	1700.
3,3'-Dichlorobenzidine	BQL	3300.
Benzo(a) anthracene	BQL	1700.
bis(2-Ethylhexyl) phthalate	BQL	1700.
Chrysene	BQL	1700.
Di-n-octylphthalate	BQL	1700.

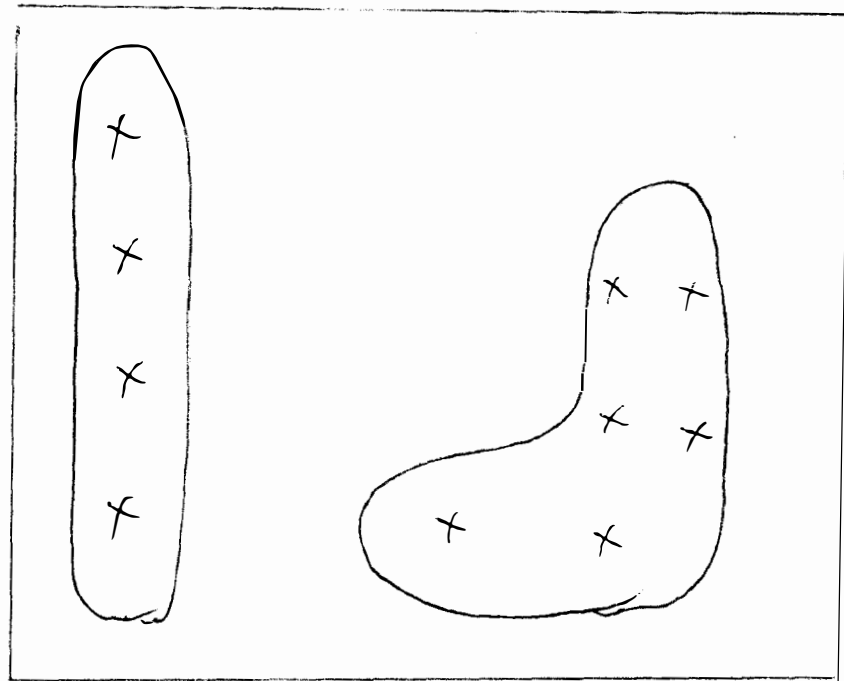
Benzo(b) fluoranthene	BQL	1700.
N-Nitrosodimethylamine	BQL	1700.
1,2-Diphenylhydrazine (2)	BQL	1700.
Benzo(k) fluoranthene	BQL	1700.
Benzo(a) pyrene	BQL	1700.
Indeno(1,2,3-cd) pyrene	BQL	1700.
Dibenz(a,h) anthracene	BQL	1700.
Benzo(g,h,i) perylene	BQL	1700.
Benzyl alcohol	BQL	1700.
4-Chloroaniline	BQL	1700.
Dibenzofuran	BQL	1700.
2-Methylnaphthalene	BQL	1700.
2-Nitroaniline	BQL	8300.
3-Nitroaniline	BQL	8300.
4-Nitroaniline	BQL	8300.

GC/MS
ACID EXTRACTABLE PRIORITY POLLUTANTS/HAZARDOUS SUBSTANCE LIST
EPA 8270

<u>COMPOUND</u>	<u>CONCENTRATION</u> (ug/Kg)	<u>PQL</u> (ug/Kg)
Phenol	BQL	1700.
2-Chlorophenol	BQL	1700.
2-Nitrophenol	BQL	1700.
2,4-Dimethylphenol	BQL	1700.
2,4-Dichlorophenol	BQL	1700.
4-Chloro-3-methylphenol	BQL	1700.
2,4,6-Trichlorophenol	BQL	1700.
2,4-Dinitrophenol	BQL	8300.
4-Nitrophenol	BQL	8300.
4-6-Dinitro-2-methylphenol	BQL	8300.
Pentachlorophenol	BQL	8300.
2-Methylphenol	BQL	1700.
4-Methylphenol	BQL	1700.
Benzoic acid	BQL	8300.
2,4,5-Trichlorophenol	BQL	8300.

VOLATILE ORGANIC COMPOUNDS
EPA 8240

<u>COMPOUND</u>	<u>CONCENTRATION</u> (ug/Kg)	<u>PQL</u> (ug/Kg)	<u>DILUTION</u> <u>FACTOR</u>
Acetone	BQL	10	1
Benzene	BQL	5	1
Bromodichloromethane	BQL	5	1
Bromoform	BQL	5	1
Bromomethane	BQL	5	1
2-Butanone	BQL	10	1
Carbon Disulfide	BQL	5	1
Carbon Tetrachloride	BQL	5	1
Chlorobenzene	BQL	5	1
Chlorodibromomethane	BQL	5	1
Chloroethane	BQL	5	1
Chloroform	BQL	5	1
Chloromethane	BQL	5	1
1,4-Dichlorobenzene	BQL	5	1
1,3-Dichlorobenzene	BQL	5	1
1,2-Dichlorobenzene	BQL	5	1
1,1-Dichloroethane	BQL	5	1
1,2-Dichloroethane	BQL	5	1
1,1-Dichloroethene	BQL	5	1
trans-1,2-Dichloroethene	BQL	5	1
1,2-dichloropropane	BQL	5	1
cis-1,3-dichloropropene	BQL	5	1
trans-1,3-dichloropropene	BQL	5	1
Ethylbenzene	BQL	5	1
2-Hexanone	BQL	10	1
Methylene Chloride	BQL	5	1
4-Methyl-2-pentanone	BQL	10	1
Styrene	BQL	5	1
1,1,2,2-Tetrachloroethane	BQL	5	1
Tetrachloroethene	BQL	5	1
Toluene	BQL	5	1
1,1,1-Trichloroethane	BQL	5	1
1,1,2-Trichloroethane	BQL	5	1
Trichloroethylene	BQL	5	1
Trichlorofluoromethane	BQL	5	1
Vinyl Acetate	BQL	10	1
Vinyl Chloride	BQL	5	1
Xylenes	BQL	5	1



empty lot

Linden Ave.

X = sample points
from soil piles

Samples were composited
into one testing sample



SP - EvS

CHAIN-OF-CUSTODY RECORD

No. 10794

SP - Environmental Systems, Inc. • 19

1 Village Drive, Ste. 310 • Sacramento, CA 95827 • Phone 916-369-8921 • FAX 916-369-8370

PROJECT NAME
Richard Service

PROJECT NO.
05149

PROJECT CONTACT
And Nathu

CLIENT'S REPRESENTATIVE

LOCATION
Apex

PROJECT TELEPHONE NO.
916-369-8921

DT MANAGER/SUPERVISOR

NUMBER
OF CONTAINERSANALYSIS DESIRED:
(INDICATE
SEPARATE
CONTAINERS)

EDC/TA without ID
AND EDC

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	STATE
1	0001	4/30/91	1000		11
2	0002	4/30/91	1115		
3	0003	4/30/91	1120		
4	0004	4/30/91	1120		
5					
6					
7					
8					
9					
10					

SAMPLE LOCATION
(INCLUDE MATRIX AND
POINT OF SAMPLE)

FROM EXCAVATION 18"

EXCAVATION EAST SIDE
18"

EXCAVATION EAST SIDE
18"

EXCAVATION south wall
17"

2

1

1

1

1

SECTION 1

REMARKS

*VCA SITU**BRASS TUBE**BRASS TUBE**BRASS TUBE*

TRANSFER NUMBER	ITEM NUMBER	TRANSFER DATE	TRANSFER TIME
1	5		
2			
3			
4			

TRANSFERS ACCEPTED BY	DATE	TIME
<i>Theresa Lamotta</i>	<i>4/30/91</i>	<i>1150</i>

REMARKS
*Do not include EDC/EDB**24 hr T.A.*SAMPLER'S NAME
BRIGITTE LIEVENSSAMPLER'S SIGNATURE
[Signature]

TRANSFER 1

Coast-to-Coast
Coast
Analytical
Services

Coast-to-Coast
Analytical Services, Inc.
751 S. Kellogg Avenue, Suite A
Goleta, California 93117
(805) 964-7838

Lab Number : GE0735-4
Collected : 04/30/91
Received : 04/30/91
Tested : 04/30/91
Collected by: B. Lievens

FUEL FINGERPRINT ANALYSIS BY GC/MS FOR TPH

(Modified EPA 8240) as cited in CAL-LUFT, p. A18 (Oct. 1989)*

ATTN: Ana Nathe
SP Environmental Systems, Inc.
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

EXTRACTED BY EPA METHOD 8030 - Purge & Trap **

SAMPLE DESCRIPTION:

Project # 05149, Orchard Service, Soil
0004, Soil Excavation South Wall @ 17'

Section 1

Compound Analyzed	Detection Limit (#PQL) in ppm	Concentration in ppm
Benzene	0.005	not found
Toluene	0.005	not found
Ethylbenzene	0.005	not found
Xylenes	0.005	not found
TOTAL PETROLEUM HYDROCARBONS (Gasoline, Stoddard Solvent, Diesel)	1.	<1.
BTX as a Percent of Fuel		not applicable
Percent Surrogate Recovery		92.

#PQL - Practical Quantitation Limit

* Cal DHS has approved use of this method for these analytes by this laboratory.

** Sonicated during Extraction

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES

Marissa C. Coronel
Marissa C. Coronel, Laboratory Director

Mary Havlicek
Mary Havlicek, Ph.D., President

ge0735f4.wr1
MH/mm/mc
msdg1/05/01/91

MAY 01 '91 08:39 C C A 805 964 7838
 AIR, WATER and HAZARDOUS WASTE LABORATORY CERTIFIED by CALIFORNIA DEPT OF HEALTH SERVICES P.4

Coast-to-
Coast
Analytical
Services

Coast-to-Coast
Analytical Services, Inc.
751 S. Kellogg Ave., Suite A
Goleta, California 93117
(805) 964-7838

Lab Number : GE9735-3
Collected : 04/30/91
Received : 04/30/91
Tested : 04/30/91
Collected by: B. Lievens

FUEL FINGERPRINT ANALYSIS BY GC/MS FOR TPH
 (Modified EPA 8240) as cited in CAL-LUFT, p. A18 (Oct. 1989)*

ATTN: Ana Nathe
SP Environmental Systems, Inc.
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

EXTRACTED BY EPA METHOD 8230 - Purge & Trap **

SAMPLE DESCRIPTION:

Project # 05149, Orchard Service, Soil
 0003, Soil Excavation East Side @ 18'

Compound Analyzed Detection Limit (#PQL) Concentration
 in ppm in ppm

Benzene 0.005 not found
 Toluene 0.005 not found
 Ethylbenzene 0.005 not found
 Xylenes 0.005 not found

TOTAL PETROLEUM HYDROCARBONS 1. <1.
 (Gasoline, Stoddard Solvent, Diesel)

BTX as a Percent of Fuel not applicable

Percent Surrogate Recovery 99.

#PQL - Practical Quantitation Limit

* Cal DHS has approved use of this method for these analytes by this laboratory.

** Sonicated during Extraction

Respectfully submitted,
 COAST-TO-COAST ANALYTICAL SERVICES

Marissa C. Coronel
 Marissa C. Coronel, Laboratory Director

Mary Havlicek
 Mary Havlicek, Ph.D., President

ge9735f3.vr1
 MH/mm/mc
 madg1/05/01/91

MAY 01 '91 08:38 C.C.R. 825-964-7838
AIR, WATER AND HAZARDOUS WASTE LABORATORY CERTIFIED BY CALIFORNIA DEPT OF HEALTH SERVICES

Coast-to-
Coast
Analytical
Services

Coast-to-Coast
Analytical Services, Inc.
751 S. Kellogg Avenue, Suite A
Goleta, California 93117
(805) 964-7838

Lab Number : 0E0735-2
Collected : 04/30/91
Received : 04/30/91
Tested : 04/30/91
Collected by: B. Lievens

FUEL FINGERPRINT ANALYSIS BY GC/MS FOR TPH

(Modified EPA 8245) as cited in CAL-LUFT, p. A18 (Oct. 1989)*

EXTRACTED BY EPA METHOD 8035 - Purge & Trap **

ATTN: Ana Nathe

SP Environmental Systems, Inc.
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

SAMPLE DESCRIPTION:

Project # 05149, Orchard Service, Soil
0002, Soil Excavation East Side @ 18'

Section 1

Compound Analyzed	Detection Limit (#PQL) in ppm	Concentration in ppm
Benzene	0.005	not found
Toluene	0.005	not found
Ethylbenzene	0.005	not found
Xylenes	0.005	not found

TOTAL PETROLEUM HYDROCARBONS (Gasoline, Stoddard Solvent, Diesel)	1.	<1.

BTX as a Percent of Fuel		not applicable
Percent Surrogate Recovery		99.

#PQL - Practical Quantitation Limit.

* Cal DHS has approved use of this method for these analytes by this laboratory.

** Sonicated during Extraction

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES

Marissa C. Coronel
Marissa C. Coronel, Laboratory Director

Mary Havlicek
Mary Havlicek, Ph.D., President

ge0735r2.wr1
MH/mm/me
madg1/05/01/91



CHAIN-OF-CUSTODY RECORD

No. 10795

SP - Environmental Systems, Inc. • 9719 Lincoln Village Drive, Ste. 310 • Sacramento, CA 95827 • Phone 916-369-8971 • FAX 916-369-8370

PROJECT NAME Dickard Services		PROJECT LOCATION Chaparral		ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) NO TPA, NO EDB, NO EDC			
PROJECT NO. 08/99		PROJECT CONTACT DATA NATHIE				PROJECT TELEPHONE NO. 716 369 8971	
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR					

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE LOCATION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS
1	00066	9/1	1440		X	East wall 9' x 1/2" (second section)	1	X	X									DBAS (west side)
2	00062		1445		X	N.E. wall 11' x 1/2" (second section)	1	X	X									
3	00063		1450		X	Bottom Center 16" (second section)	1	X	X									
4	00064		1500		X	Bottom side wall 16" west (second section)	1	X	X									
5																		
6																		
7																		
8																		
9																		
10																		

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	4	BRIGHTIE LIEVENS	BRIGHTIE LIEVENS	9/1	1440	24 Hr. T.A.
2						(*) NO EDB + NO EDC
3						
4						

SAMP. ON NAME
BRIGHTIE LIEVENS

SAMP. LER'S SIGNATURE

TRANSFER 1

PAGE. 005

MAY 7 '91 8:43 FROM SP EYE

Coast-to-
Coast
Analytical
Services

Coast-to-Coast
Analytical Services, Inc.
751 S. Kellogg Avenue, Suite A
Goleta, California 93117
(805) 964-7838

Lab Number : GE9754-4
Collected : 05/01/91
Received : 05/01/91
Tested : 05/01/91
Collected by: B. Lievens

FUEL FINGERPRINT ANALYSIS BY GC/MS FOR TPH
(Modified EPA 8240) as cited in CAL-LUFT, p. A18 (Oct. 1989)*

ATTN: Ana Nathe
SP Environmental Systems, Inc.
9719 Lincoln Village Drive
Suite 319
Sacramento, CA 95827

EXTRACTED BY EPA METHOD 8030 - Purge & Trap **

SAMPLE DESCRIPTION:

Project # 05149, Orchard Service, Soil
00064, Bottom Side Wall 16' West (2nd section)

Compound Analyzed	Detection Limit (#PQL) in ppm	Concentration in ppm
Benzene	0.005	not found
Toluene	0.005	not found
Ethylbenzene	0.005	not found
Xylenes	0.005	not found

TOTAL PETROLEUM HYDROCARBONS (Gasoline, Stoddard Solvent, Diesel)	1.	<1.

BTX as a Percent of Fuel		not applicable
Percent Surrogate Recovery		99.

#PQL - Practical Quantitation Limit

* Cal DHS has approved use of this method for these analytes by this laboratory.

** Sonicated during Extraction

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES

Marissa C. Coronel
Marissa C. Coronel, Laboratory Director

Mary Havlicek
Mary Havlicek, Ph.D., President

ge9755f4.wr1
MH/mm/mc
msdg1/05/02/91

Coast-to-Coast
Coast
Analytical
Services

Coast-to-Coast
Analytical Services, Inc.
751 S. Kellogg Avenue, Suite A
Galea, California 93117
(805) 984-7839

Lab Number : GE8758-3
Collected : 05/01/91
Received : 05/01/91
Tested : 05/01/91
Collected by: B. Lievens

FUEL FINGERPRINT ANALYSIS BY GC/MS FOR TPH
(Modified EPA 8240) as cited in CAL-LUFT, p. A18 (Oct. 1989)*

ATTN: Ana Nathe
SP Environmental Systems, Inc.
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

EXTRACTED BY EPA METHOD 5030 - Purge & Trap **

SAMPLE DESCRIPTION:

Project # 05149, Orchard Service, Soil
#0083, Bottom Center 16' (2nd section)

Compound Analyzed	Detection Limit (#PQL) in ppm	Concentration in ppm
Benzene	0.005	not found
Toluene	0.005	not found
Ethylbenzene	0.006	not found
Xylenes	0.005	not found
TOTAL PETROLEUM HYDROCARBONS (Gasoline, Stoddard Solvent, Diesel)	1.	<1.
BTX as a Percent of Fuel		not applicable
Percent Surrogate Recovery		92.

#PQL - Practical Quantitation Limit

* Cal DHS has approved use of this method for these analytes by this laboratory.

** Sonicated during Extraction

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES

Marissa C. Coronel
Marissa C. Coronel, Laboratory Director

Mary Havlicek
Mary Havlicek, Ph.D., President

ge8758f3.wri
MH/um/mc
madg1/05/02/91

Coast-to-Coast
Analytical
Services

Coast-to-Coast
Analytical Services, Inc.
751 S. Kellogg Avenue, Suite A
Goleta, California 93117
(805) 964-7838

Lab Number : GE9750-2
Collected : 05/01/91
Received : 05/01/91
Tested : 05/01/91
Collected by: B. Lievens

FUEL FINGERPRINT ANALYSIS BY GC/MS FOR TPH

(Modified EPA 8240) as cited in CAL-LUFT, p. A18 (Oct. 1989)*

ATTN: Ana Nathe

SP Environmental Systems, Inc.

9719 Lincoln Village Drive

Suite 310

Sacramento, CA 95827

EXTRACTED BY EPA METHOD 5030 - Purge & Trap **

SAMPLE DESCRIPTION:

Project # 05149, Orchard Service, Soil

00062, N.E. Wall 11' (2nd section)

Compound Analyzed	Detection Limit (#PQL) in ppm	Concentration in ppm
Benzene	0.005	not found
Toluene	0.005	not found
Ethylbenzene	0.005	not found
Xylenes	0.005	not found

TOTAL PETROLEUM HYDROCARBONS (Gasoline, Stoddard Solvent, Diesel)	1.	<1.

BTX as a Percent of Fuel		not applicable
Percent Surrogate Recovery		93.

#PQL - Practical Quantitation Limit

* Cal DHS has approved use of this method for these analytes by this laboratory.

** Sonicated during Extraction

Respectfully submitted,

COAST-TO-COAST ANALYTICAL SERVICES

Marissa C. Coroneel
Marissa C. Coroneel, Laboratory Director

Mary Havlicek
Mary Havlicek, Ph.D., President

ge0750f2.wr1
MH/mm/mc
msdg1/05/02/91

Coast-to-
Coast
Analytical
Services

Coast-to-Coast
Analytical Services, Inc.
751 S. Kellogg Avenue, Suite A
Seleta, California 93117
(805) 964-7838

Lab Number : GE9756-1
Collected : 05/01/91
Received : 05/01/91
Tested : 05/01/91
Collected by: B. Lievens

FUEL FINGERPRINT ANALYSIS BY GC/MS FOR TPH
(Modified EPA 8240) as cited in CAL-IUFT, p. A18 (Oct. 1989)*

ATTN: Ana Nathe
SP Environmental Systems, Inc.
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

EXTRACTED BY EPA METHOD 5030 - Purge & Trap **

SAMPLE DESCRIPTION:

Project # 05149, Orchard Service, Soil
05061, East Wall 9.5' (2nd section)

Compound Analyzed	Detection Limit (#PQL) in ppm	Concentration in ppm
Benzene	0.005	not found
Toluene	0.005	not found
Ethylbenzene	0.005	not found
Xylenes	0.005	not found

TOTAL PETROLEUM HYDROCARBONS (Gasoline, Stoddard Solvent, Diesel)	1.	<1.

BTX as a Percent of Fuel		not applicable
Percent Surrogate Recovery		95.

#PQL - Practical Quantitation Limit

* Cal DHS has approved use of this method for these analytes by this laboratory.

** Sonicated during Extraction

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES

Marissa C. Coronel
Marissa C. Coronel, Laboratory Director

Mary Havlicek
Mary Havlicek, Ph.D., President

ge9756f1.wr1
MH/mw/mc
msdg1/05/02/91



CHAIN-OF-CUSTODY RECORD

No. 10792

SP - Environmental Systems, Inc. • 9719 Lincoln Village Drive, Ste. 310 • Sacramento, CA 95827 • Phone 916-369-8971 • FAX 916-369-8370

PROJECT NAME		PROJECT LOCATION																
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.																
Richard Swice		Carpenter																
0899	Lina Rother	716 3675971																
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR																
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE LOCATION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) <i>SPIN 1st w/ AUTO</i> <i>and BETA</i>										REMARKS
1	00065	7/2/91			X	NORTHWEST 9' SIDE (SECTION 3)	1	X	X									ENTER next Snd
2	00066	7/2/91	1:30		X	NORTHWEST 13' BOTTOM (SECTION 3)	1	X	X									↓
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY:		TRANSFERS ACCEPTED BY:		DATE	TIME	REMARKS										
1	2	BRIGITTE LIEVENS		[Signature]		7/2/91	1:30	X NO EDB + NCEDC 24 Hic T.A.										
2																		
3																		
4																		
SAMPLER'S NAME								SAMPLER'S SIGNATURE										
BRIGITTE LIEVENS								[Signature]										

MAY 03 '91 10:37 C C R 805 964 7838 P.3
 AIR, WATER AND HAZARDOUS WASTE LABORATORY CERTIFIED BY CALIFORNIA DEPT OF HEALTH SERVICES

Coast-to-
Coast
Analytical
Services

Coast-to-Coast
Analytical Services, Inc.
751 S. Kellogg Avenue, Suite A
Galeto, California 93117
(805) 964-7838

Lab Number : GE8767-2
Collected : 05/02/91
Received : 05/02/91
Tested : 05/02/91
Collected by: B. Lievens

FUEL FINGERPRINT ANALYSIS BY GC/MS FOR TPH

(Modified EPA 8240) as cited in CAL-LUFT, p. A18 (Oct. 1989)*

EXTRACTED BY EPA METHOD 5030 - Purge & Trap **

ATTN: Ana Natche

SP Environmental Systems, Inc.

9719 Lincoln Village Drive

Suite 310

Sacramento, CA 95827

SAMPLE DESCRIPTION:

Project # 05149, Orchard Service, Soil

00068, North Wall 13'/bottom (section 3)

Compound Analyzed	Detection Limit (#PQL) in ppm	Concentration in ppm
Benzene	0.005	not found
Toluene	0.005	0.012
Ethylbenzene	0.005	not found
Xylenes	0.005	0.016

TOTAL PETROLEUM HYDROCARBONS (Gasoline, Stoddard Solvent, Diesel)	1.	<1.

BTX as a Percent of Fuel		not applicable
Percent Surrogate Recovery		104.

#PQL - Practical Quantitation Limit

* Cal DHS has approved use of this method for these analytes by this laboratory.

** Sonicated during Extraction

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES

Marissa C. Coronel
Marissa C. Coronel, Laboratory Director

Mary Havlicek
Mary Havlicek, Ph.D., President

ge8767f2.wr1
MH/am/mc
msdg1/05/03/91

Coast-to-Coast
Analytical
Services

Coast-to-Coast
Analytical Services, Inc.
751 S. Kellogg Avenue, Suite A
Goleta, California 93117
(805) 964-7838

Lab Number : GE-67-1
Collected : 05/02/91
Received : 05/02/91
Tested : 05/02/91
Collected by: B. Lievens

FUEL FINGERPRINT ANALYSIS BY GC/MS FOR TPH

(Modified EPA 8240) as cited in CAL-LUFT, p. A18 (Oct. 1988)*

ATTN: Ana Nathe

SP Environmental Systems, Inc.
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

EXTRACTED BY EPA METHOD 8030 - Purge & Trap **

SAMPLE DESCRIPTION:

Project # 05149, Orchard Service, Soil
00065, North Wall 9'/side (section 3)

Compound Analyzed	Detection Limit (#PQL) in ppm	Concentration in ppm
Benzene	0.005	not found
Toluene	0.005	0.013
Ethylbenzene	0.005	not found
Xylenes	0.005	0.019

TOTAL PETROLEUM HYDROCARBONS (Gasoline, Stoddard Solvent, Diesel)	1.	<1.

BTX as a Percent of Fuel		not applicable
Percent Surrogate Recovery		98.

#PQL - Practical Quantitation Limit

* Cal DHS has approved use of this method for these analytes by this laboratory.

** Sonicated during Extraction

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES

Marissa C. Coronel
Marissa C. Coronel, Laboratory Director

Mary Havlicek
Mary Havlicek, Ph.D., President

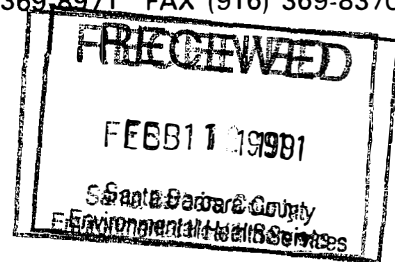
ge0787f1.wri
MH/mm/mc
medg1/05/03/91



SP ENVIRONMENTAL SYSTEMS, INC.

9719 LINCOLN VILLAGE DR., SUITE 310 SACRAMENTO, CA 95827 (916) 369-8971 FAX (916) 369-8370

February 11, 1991



Ms. Kate Sulka, Senior Specialist
LUFT Program
Environmental Health Services
County of Santa Barbara
5540 Ekwil Street, Suite B
Santa Barbara, California 93111

**SUBJECT: Submittal of Work Plan for
Additional Site Assessment
Southern Pacific Transportation Company Property
399 Linden Avenue, Carpinteria, California
County Site No. 50119
SPEvS Project No. 05149**

Dear Ms. Sulka:

On behalf of the Southern Pacific Transportation Company (SPTCo), SP Environmental Systems, Inc. (SPEvS) does hereby submit the Additional Site Assessment Work Plan (Work Plan) for the above referenced site.

Upon approval of the Work Plan by the County of Santa Barbara (County), SPEvS will schedule and conduct the proposed scope of work. The County will be notified of the proposed date(s) of field activities at least one week prior to commencement.

Should you have any questions or comments, please contact me at (916)369-8971.

Sincerely,

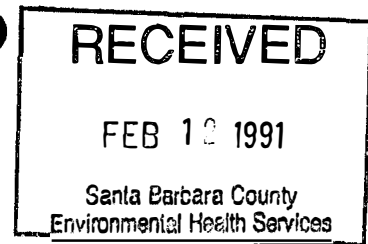
A handwritten signature in cursive script, appearing to read 'Ana Nathe'.

Ana Nathe
Assistant Project Manager

AN:amn

Enclosure

cc: Doug Wubbena, SPTCo Real Estate, Monterey Park



ADDITIONAL SITE ASSESSMENT WORK PLAN

SOUTHERN PACIFIC TRANSPORTATION COMPANY PROPERTY

399 LINDEN AVENUE

CARPINTERIA, CALIFORNIA

SPEVS PROJECT NO. 05149

PREPARED BY:

SP ENVIRONMENTAL SYSTEMS, INC.

SACRAMENTO, CALIFORNIA

FEBRUARY 11, 1991

A Work Plan prepared for:

Southern Pacific Transportation Company
One Market Plaza
San Francisco, CA 94105

**ADDITIONAL SITE ASSESSMENT WORK PLAN
SOUTHERN PACIFIC TRANSPORTATION COMPANY PROPERTY
399 LINDEN AVENUE
CARPINTERIA, CALIFORNIA**

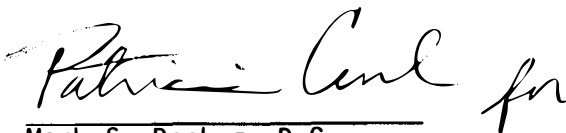
SPEvS Project No. 05149

Prepared by:


Ana Nathe
Assistant Project Manager


Todd A. Hook, P.E.
Project Manager

QA/QC by:

 for
Mark S. Dockum, R.G.
Project Manager

SP Environmental Systems, Inc.
9719 Lincoln Village Drive, Suite 310
Sacramento, California 95827
(916) 369-8971

February 11, 1991

TABLE OF CONTENTS

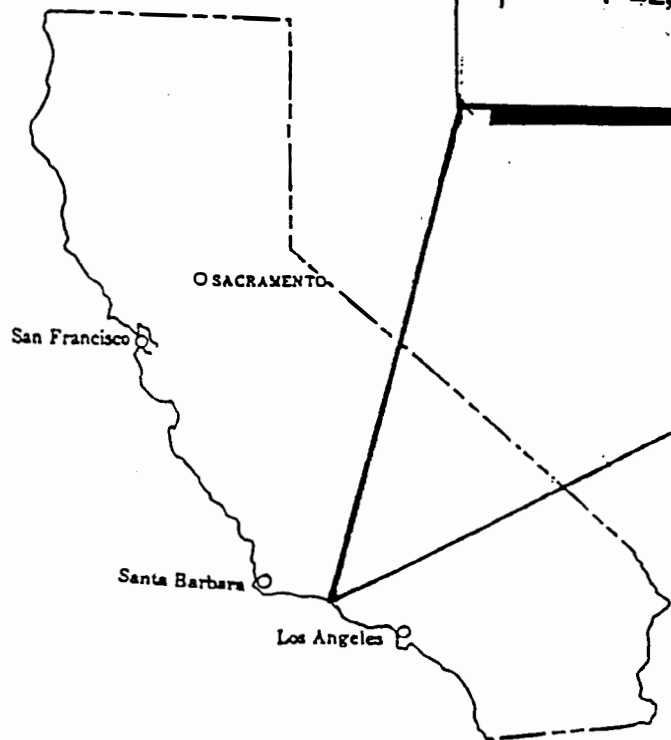
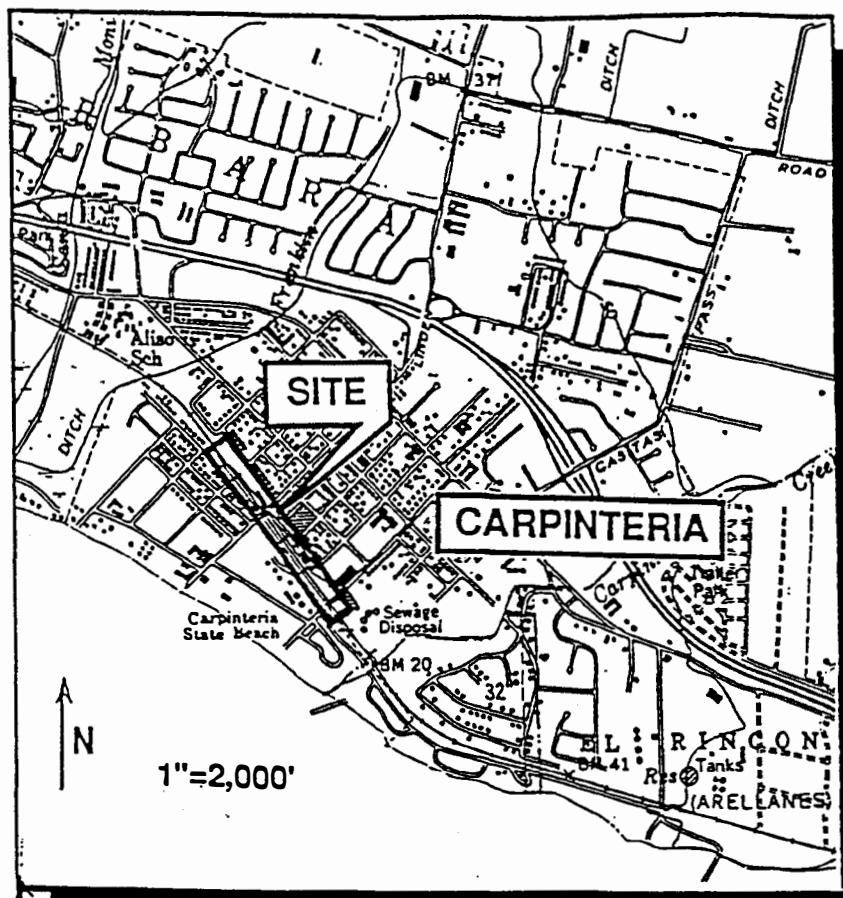
	<u>PAGE</u>
1.0 INTRODUCTION	1
2.0 BACKGROUND	3
3.0 SCOPE OF WORK	5
3.1 Additional Soil Remediation	5
3.2 Confirmation Soil Sampling	5
3.3 Monitoring Well Abandonment	6
4.0 REPORT OF FINDINGS	8
 FIGURES	
1 Site Location Map	2
2 Site Plan	4

1.0 INTRODUCTION

This Additional Site Assessment Work Plan (Work Plan) presents SP Environmental Systems, Inc. (SPEvS) proposed scope of work for the Southern Pacific Transportation Company (SPTCo) former leased property located at 399 Linden Avenue, Carpinteria, California (Figure 1).

Since February of 1990, SPEvS has conducted site activities consisting of underground storage tank (UST) removals, soil excavation and disposal, soil sampling and monitoring well installation and sampling. To date, the petroleum-affected soil associated with the removed USTs has been remediated to below the County's action levels with the exception of one soil sample in the northeastern wall of the excavation at 10 feet below the ground surface.

This Work Plan has been prepared in response to a request from the County of Santa Barbara (County) (dated December 21, 1990) to assess the extent of petroleum hydrocarbon affected soil in the northeastern wall of the excavation at the above referenced facility.



SP ENVIRONMENTAL SYSTEMS, INC.

PROJECT NO: 05149	DATE: 01/28/91
DRAWN BY: PD	CHECKED BY: MH

**SITE LOCATION MAP
399 LINDEN AVENUE AND ADJACENT PROPERTY
SOUTHERN PACIFIC TRANSPORTATION CO.
CARPINTERIA, CALIFORNIA**

**FIGURE:
1**

**SCALE:
as shown**

2.0 BACKGROUND

SPEvS has been conducting site investigation and remediation activities at the former Orchard Services facility located at 399 Linden Avenue in Carpinteria, since February of 1990. A summary of the site activities and SPEvS document submittals to the County are presented below:

<u>Site Activities/Submittals</u>	<u>DATES</u>
• UST removal, soil excavation and soil sampling	2/15&16/90
• SPEvS UST Removal Report	3/21/90
• SPEvS Phase II Work Plan	6/1/90
• Implementation of Phase II Work Plan	7/23-25/90
• SPEvS Revised Phase II Work Plan	8/14/90
• Implementation of Revised Phase II Work Plan	10/17-26/90
• SPEvS Site Investigation and Remediation Report	11/21/90

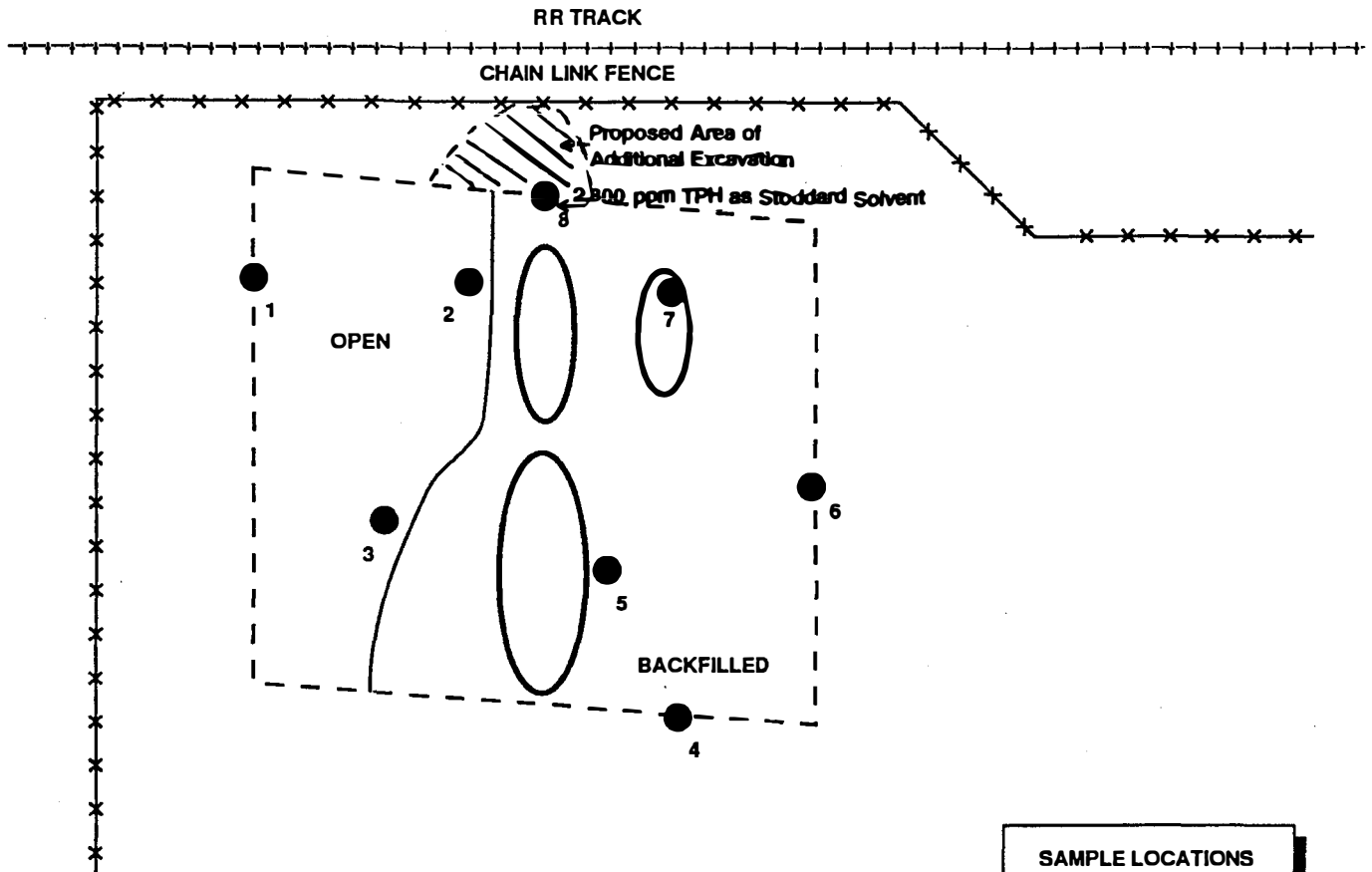
Upon receipt of analytical results for confirmation soil samples from the October 1990 activities, only one soil sample indicated petroleum hydrocarbons above the County's action levels. One sidewall sample from the northeastern side of the excavation (at a depth of 10 feet below ground surface [BGS]) indicated 2,800 parts per million (ppm) of total petroleum hydrocarbons (TPH) which was identified as being in the stoddard solvent range (Figure 2).

Three monitoring wells were installed during the October 1990 activities. The wells were sampled and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and TPH by EPA Method 8240 with fuel identification. The analytical results indicated that no constituents were above the laboratory detection limits (Refer to SPEvS Report dated November 21, 1990).

In correspondence dated December 21, 1990, the County requested that additional assessment activities be conducted in the northeastern portion of the excavation, owing to the aforementioned TPH result of 2,800 ppm as stoddard solvent. The County has not requested additional assessment of the groundwater at this time.



North



LEGEND



FORMER UST LOCATION

SAMPLE LOCATION

SAMPLE LOCATIONS

- 1 = 11881
- 2 = 11882
- 3 = 11883
- 4 = 11884
- 5 = 11885
- 6 = 11886
- 7 = 11887
- 8 = 11888



**SP ENVIRONMENTAL
SYSTEMS, INC.**

PROJECT NO: 05149

DATE: 11/16/90

DRAWN BY: PD

CHECKED BY: DCG

**SITE MAP
SOUTHERN PACIFIC TRANSPORTATION CO.
399 LINDEN AVENUE
CARPINTERIA, CALIFORNIA**

**FIGURE
2**

**N.T.S.
SCALE**

3.0 SCOPE OF WORK

Based on the extensive work previously conducted at this site (refer to Section 2.0), SPEvS proposes the following scope of work for completion of the investigation and remediation activities at this site.

3.1 Additional Soil Remediation

Owing to the presence of TPH concentrations above the County's action level in the northeastern portion of the excavation (Figure 2), SPEvS proposes to excavate an additional 20 to 30 cubic yards of material in order to remove the petroleum-affected soil, thus remediating the site. Excavation activities will be coordinated in conjunction with the SPTCo area railmaster and flagman due to the close proximity of the active railroad tracks.

A backhoe will be utilized to remove soil from the excavation. The soil will be visually inspected and screened with a photo-ionization detector (PID) for volatile constituents. The soil will be stockpiled onsite in two separate areas (a petroleum-affected soil pile, and an unaffected soil pile) based on the visual observations and PID readings.

The petroleum-affected soil will be disposed in a similar manner as the previously removed soil (i.e., transported under manifest to Liquid Waste Management, McKittrick Landfill). The unaffected soil will be used as backfill, if confirmation analytical results allow.

Upon removal of the apparent petroleum-affected soil from the excavation, confirmation soil sampling of the excavation will commence.

3.2 Confirmation Soil Sampling

Confirmation soil sampling will be conducted by obtaining soil from a specified location in the excavation by means of the backhoe bucket. Sample locations will be selected from various sidewall locations as well as from the bottom of the excavation. If the County representative is present, sample locations may be selected in accordance with the County's recommendations.

Sample collection protocol consists of obtaining the soil from the desired location by means of the backhoe bucket. The bucket is brought to the ground surface so it may be accessed by SPEvS personnel. SPEvS personnel will scrape away the top portion of the material in the bucket in order to access a relatively undisturbed portion of the soil. A sample will be collected for chemical analysis by driving a pre-cleaned 2-inch-diameter by 6-inch-long brass tube into the soil with a rubber mallet. Upon filling, the tube will be retracted from the soil. Each end of the tube will be sealed with Teflon sheeting and tight-fitting plastic end caps, labeled, logged on a chain-of-custody form, and placed in an iced cooler until delivery to the analytical laboratory.

A maximum of five confirmation soil samples from the excavation and one (composite) confirmation soil sample from the unaffected soil pile will be collected and analyzed for BTEX and TPH by EPA Method 8240 Modified with fuel identification (as cited in CAL-LUFT, p. A18 [October, 1989]).

Upon receipt of the analytical results from the excavation and the stockpiled soil confirming that the petroleum-affected soil has been remediated, the excavation will be backfilled with imported fill material in addition to the unaffected soil pile, and compacted in accordance with City of Carpinteria requirements.

3.3 Monitoring Well Abandonment

Through the implementation of the Revised Phase II Work Plan, SPEvS obtained groundwater samples from the three monitoring wells installed on the property (refer to SPEvS submittal dated November 21, 1990: Site Investigation and Remediation Report). The water samples were analyzed for BTEX and TPH by EPA Method 8240 Modified with fuel identification.

All of the groundwater sample analytical results were below the laboratory detection limits of 0.5 parts per billion (ppb) for the BTEX constituents and below 50 ppb for the TPH constituents (gasoline, diesel and stoddard solvent).

Upon receipt of the confirmation soil samples indicating that soil remediation

at this site is complete, and based upon the above referenced laboratory results, SPEvS recommends abandonment of the three monitoring wells at the site.

The monitoring wells shall be abandoned in accordance with the standards found in California Code of Regulations Title 23, Section 2647 and 2648, and County Ordinance Number 3458. Permits shall be obtained from the County prior to commencement of well destruction activities.

4.0 REPORT OF FINDINGS

Upon completion of the field activities and receipt and interpretation of the analytical results, SPEvS will submit a report of findings to the County. The report shall include SPEvS' field procedures and observations, a summary of the analytical results (as well as the complete laboratory report), and SPEvS' conclusions and recommendations for the subject property.



SP ENVIRONMENTAL SYSTEMS, INC.

9719 LINCOLN VILLAGE DR., SUITE 310 SACRAMENTO, CA 95827 (916) 369-8971 FAX (916) 369-8370

January 21, 1991
Via Facsimile

Ms. Kate Sulka
Senior Specialist/LUFT Program
Environmental Health Department
County of Santa Barbara
5540 Ekwil Street, Suite B
Santa Barbara, California 93111

**SUBJECT: Request for Extension
Additional Site Assessment Workplan Submittal
Southern Pacific Transportation Company
399 Linden Avenue, Carpinteria, California
Santa Barbara County, Site Reference No. 50119
SPEvS Project No. 05149**

Dear Ms. Sulka:

On behalf of the Southern Pacific Transportation Company (SPTCo), SP Environmental Systems, Inc. (SPEvS) does hereby respond to the County of Santa Barbara (County) letter dated December 21, 1990.

In response to item number 3 in the County letter, the underground storage tank removed during the October excavation activities is currently onsite. This tank will be properly disposed in conjunction with the proposed additional site assessment work.

With respect to the submittal of the manifests for the soil hauled to McKittrick, a copy of the manifests are hereby enclosed for your records.

In regard to the request for submittal of a workplan by January 21, 1991, SPEvS is in the process of receiving approval from the SPTCo Real Estate department for the proposed scope of work to be conducted at the referenced site. SPEvS expects to receive approval from SPTCo within the next 10 to 15 days. Therefore, SPEvS requests an extension for the submittal of the additional site assessment workplan until February 11, 1991.

SPEvS appreciates your continued cooperation and understanding with respect to this project. If you have any question or comments regarding the enclosed data, or the requested extension, please contact me at (916)369-8971.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Ana Nathe', is written over a horizontal line.

Ana Nathe
Assistant Project Manager

TH/AN/amn

Enclosures

cc: D. Wubben (without enclosures)

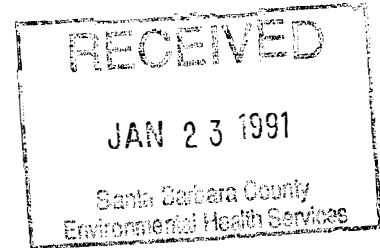


SP ENVIRONMENTAL SYSTEMS, INC.

9719 LINCOLN VILLAGE DR., SUITE 310 SACRAMENTO, CA 95827 (916) 369-8971 FAX (916) 369-8370

January 21, 1991
Via Facsimile

Ms. Kate Sulka
Senior Specialist/LUFT Program
Environmental Health Department
County of Santa Barbara
5540 Ekwil Street, Suite B
Santa Barbara, California 93111



**SUBJECT: Request for Extension
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399 Linden Avenue, Carpinteria, California
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SPEvS appreciates your continued cooperation and understanding with respect to this project. If you have any question or comments regarding the enclosed data, or the requested extension, please contact me at (916)369-8971.

Sincerely,

Ana Nathe
Assistant Project Manager

TH/AN/amn

Enclosures

cc: D. Wubbena (without enclosures)

KERN BACKHOE SERVICE INC. — KERN VACUUM SERVICE

Well, Tank No. _____

P.O. BOX 5337 • BAKERSFIELD, CALIFORNIA 93388

Field or Area 05149

(805) 589-5220

No 14712

Kern Vacuum

NON-HAZARDOUS WASTE HAULER RECORD TO BE USED FOR NON-HAZARDOUS WASTES ONLY

GENERATOR

(Generator Must Complete)

1Name S. P. TRANSPORTATION CO.Field Address 9719 LINCOLN VILLAGE DRIVECity, State, Zip SACRAMENTO, CALIFORNIA 95827Phone (916) 369-8971Order Placed By LIZ GILLISSignature of Authorized Agent [Signature]Date 10/31/90Title Field - 211**WASTE TO BE DISPOSED**Type SCID**2**Generating Location CARPENTERIA, CALIFORNIA

Special Handling Instructions:

☐ Gloves ☐ Goggles ☒ Other NONE

Quantity _____ Bbl

3**DESIGNATED FACILITY**Name LIQUID WASTE MANAGEMENT, INC.Address STAR ROUTE BOX 4City, State, Zip MC KITTRICK, CALIFORNIA 93251Phone (805) 762-7607**TRANSPORTER**

(Hauler Must Complete)

Name K.V.S. TRANSPORTATION, INC.Address POST OFFICE BOX 5295City, State, Zip BAKERSFIELD, CALIFORNIA 93388Phone (805) 589-5220Signature of Authorized Agent or Driver [Signature]Date 10/31/90Ticket # 1029 Unit No. 2871-13APick Up Date 10/31/90 Time 12:00 ☐ AM ☒ PM**NOTE:** This form to be used in lieu of the California Department of Health Services Hazardous Waste Manifest for NON-HAZARDOUS wastes only.**REMARKS:**L.W.M. ACCEPTANCE NO. 102590-879Tons $24.09 \times 0.8428 = 20.3$
cubic yards**DISPOSAL FACILITY**

(Facility Operator Must Complete)

Name S. I. V. # 2200 IncAddress Star Route Box 4City, State, Zip McKittrick, CA 93251Phone (805) 762-7607 / Disp. Ticket # 112155Signature of Authorized Agent [Signature] Date 10/31/90Quantity Received 24.09 Bbls. Date 10-31-90Time _____ ☐ AM ☐ PMDISPOSAL METHOD: ☐ Surface Impoundment ☐ Injection
☒ Landfill ☐ Other _____Return Copy To: **GENERATOR UNLESS OTHERWISE SPECIFIED****NOTE:** It is not necessary to send copy to Dept. of Health Services.
NO HAZARDOUS FEES SHOULD BE LEVIED

KERN BACKHOE SERVICE INC. — KERN VACUUM SERVICE

40162

Well, Tank No. _____

P.O. BOX 5337 • BAKERSFIELD, CALIFORNIA 93388

Field or Area 03149

(805) 589-5220

Nº 14718

NON-HAZARDOUS WASTE HAULER RECORD TO BE USED FOR NON-HAZARDOUS WASTES ONLY

Kern Vacuum

GENERATOR

(Generator Must Complete)

1

Name S. P. TRANSPORTATION CO.

Field Address 9719 LINCOLN VILLAGE LANE

City, State, Zip SACRAMENTO, CALIFORNIA 95827

Phone (916) 369-8971

Order Placed By LIZ GILLES

Signature of Authorized Agent [Signature]

Date 12-31-90

Title [Signature]

TRANSPORTER

(Hauler Must Complete)

Name K.V.S. TRANSPORTATION, INC.

Address POST OFFICE BOX 5295

City, State, Zip BAKERSFIELD, CALIFORNIA 93388

Phone (805) 589-5220

Signature of Authorized Agent or Driver [Signature]

Date 12-31-90

DISPOSAL FACILITY

(Facility Operator Must Complete)

Name S. W. [Signature]

Address Star Route Box 4

City, State, Zip MC KITTRICK, CALIFORNIA 93251

Phone 62-1111 / Disp. Ticket # 147162

Signature of Authorized Agent [Signature]

Date 12-31-90

WASTE TO BE DISPOSED

Type Soil

2

Generating Location CARPENTERIA, CALIFORNIA

Special Handling Instructions:

☐ Gloves ☐ Goggles ☒ Other NONE

Quantity _____ Bbls

DESIGNATED FACILITY

3

Name LIQUID WASTE MANAGEMENT, INC.

Address STAR ROUTE BOX 4

City, State, Zip MC KITTRICK, CALIFORNIA 93251

Phone (805) 762-7607

Ticket # 10/586 Unit No. 185 189

Pick Up Date 12-31-90 Time 1:20 ☐ AM ☒ PM

NOTE: This form to be used in lieu of the California Department of Health Services Hazardous Waste Manifest for NON-HAZARDOUS wastes only.

REMARKS:

L.W.M. ACCEPTANCE NO. 102590-879

Quantity Received 22.99 Bbls Date 12-31-90

\$1,379.40 Time _____ ☐ AM ☐ PM

DISPOSAL METHOD: ☐ Surface Impoundment ☐ Injection

☒ Landfill ☐ Other _____

Return Copy To: **GENERATOR UNLESS OTHERWISE SPECIFIED**

NOTE: It is not necessary to send copy to Dept. of Health Services.
NO HAZARDOUS FEES SHOULD BE LEVIED

KERN BACKHOE SERVICE INC. — KERN VACUUM SERVICE

40161

Well, Tank No. _____

P.O. BOX 5337 • BAKERSFIELD, CALIFORNIA 93388

Field or Area CS 149

(805) 589-5220

No 14717

Kern Vacuum

NON-HAZARDOUS WASTE HAULER RECORD TO BE USED FOR NON-HAZARDOUS WASTES ONLY

GENERATOR

(Generator Must Complete)

1 Name S. P. TRANSPORTATION CO.

Field Address 9719 LINCOLN VILLAGE DRIVE

City, State, Zip SACRAMENTO, CALIFORNIA 95827

Phone (916) 369-8971

Order Placed By 112 GILLES

Signature of Authorized Agent [Signature]

Date 12-31-77

Title Field Agent

WASTE TO BE DISPOSED

Type Sealed

2 Generating Location CARPENTERIA, CALIFORNIA

Special Handling Instructions:

☐ Gloves ☐ Goggles ☒ Other NONE

Quantity _____ Bbl.

DESIGNATED FACILITY

3 Name LIQUID WASTE MANAGEMENT, INC.

Address STAR ROUTE BOX 4

City, State, Zip MC KITTRICK, CALIFORNIA 93251

Phone (805) 762-7607

TRANSPORTER

(Hauler Must Complete)

Name K.V.S. TRANSPORTATION, INC.

Address POST OFFICE BOX 5295

City, State, Zip BAKERSFIELD, CALIFORNIA 93388

Phone (805) 589-5220

Signature of Authorized Agent or Driver [Signature]

Date 3-1-78

Ticket # 1234 Unit No. 701

Pick Up Date 1-31-78 Time 12:00 ☐ AM ☒ PM

NOTE: This form to be used in lieu of the California Department of Health Services Hazardous Waste Manifest for NON-HAZARDOUS wastes only.

REMARKS:

L.W.M. ACCEPTANCE NO. 102590-879

DISPOSAL FACILITY

(Facility Operator Must Complete)

Name [Signature]

Address Star Route Box 4

City, State, Zip McKittrick, CA 93251

Phone 805 762 7607 / Disp. Ticket # 40161

Signature of Authorized Agent [Signature]

Date 12-31-77

Quantity Received 22-80 Tons Bbls. Date 12-31-77

Time _____ ☐ AM ☐ PM

DISPOSAL METHOD: ☐ Surface Impoundment ☐ Injection
☒ Landfill ☐ Other _____

Return Copy To: **GENERATOR UNLESS OTHERWISE SPECIFIED**

NOTE: It is not necessary to send copy to Dept. of Health Services.
NO HAZARDOUS FEES SHOULD BE LEVIED

DISPOSAL COPY

KERN BACKHOE SERVICE INC. — KERN VACUUM SERVICE

40157

Well, Tank No. _____

P.O. BOX 5337 • BAKERSFIELD, CALIFORNIA 93388

Field or Area 25149

(805) 589-5220

No 14716

Kern Vacuum

NON-HAZARDOUS WASTE HAULER RECORD

TO BE USED FOR NON-HAZARDOUS WASTES ONLY

GENERATOR

(Generator Must Complete)

1 Name S. P. TRANSPORTATION CO.

Field Address 9719 LINCOLN VILLAGE DRIVE

City, State, Zip SACRAMENTO, CALIFORNIA 95827

Phone (916) 369-8971

Order Placed By LIZ GILLIS

Signature of Authorized Agent [Signature]

Date 03/1/90

Title Field Tech

TRANSPORTER

(Hauler Must Complete)

Name K.V.S. TRANSPORTATION, INC.

Address POST OFFICE BOX 5295

City, State, Zip BAKERSFIELD, CALIFORNIA 93388

Phone (805) 589-5220

Signature of Authorized Agent or Driver [Signature]

Date 12-31-70

DISPOSAL FACILITY

(Facility Operator Must Complete)

Name Phibco

Address Star 1007.00

City, State, Zip McKittrick, CA 93251

Phone 805 421 1311 / Disp. Ticket # 41157

Signature of Authorized Agent [Signature]

Date 12-31-70

DISPOSAL COPY

WASTE TO BE DISPOSED

Type SCS

2 Generating Location CARPENTERIA, CALIFORNIA

Special Handling Instructions:

☐ Gloves ☐ Goggles ☒ Other NONE

Quantity _____ Bbls

DESIGNATED FACILITY

3 Name LIQUID WASTE MANAGEMENT, INC.

Address STAR ROUTE BOX 4

City, State, Zip MC KITTRICK, CALIFORNIA 93251

Phone (805) 762-7607

Ticket # 100417 Unit No. 3911374

Pick Up Date 12-31-70 Time 1:00 ☐ AM ☒ PM

NOTE: This form to be used in lieu of the California Department of Health Services Hazardous Waste Manifest for NON-HAZARDOUS wastes only.

REMARKS:

L.W.M. ACCEPTANCE NO. 10-2590-879

Quantity Received 22.67 Bbls. Date 12-31-70

Time _____ ☐ AM ☐ PM

DISPOSAL METHOD: ☐ Surface Impoundment ☐ Injection
☒ Landfill ☐ Other _____

Return Copy To: **GENERATOR UNLESS OTHERWISE SPECIFIED**

NOTE: It is not necessary to send copy to Dept. of Health Services.
NO HAZARDOUS FEES SHOULD BE LEVIED

KERN BACKHOE SERVICE INC. — KERN VACUUM SERVICE

40159

Well, Tank No. _____

P.O. BOX 5337 • BAKERSFIELD, CALIFORNIA 93388

Field or Area CS 104

(805) 589-5220

No 14715

KERN VACUUM

NON-HAZARDOUS WASTE HAULER RECORD TO BE USED FOR NON-HAZARDOUS WASTES ONLY

GENERATOR

(Generator Must Complete)

1 Name S. P. TRANSPORTATION CO.
Field Address 9719 LINCOLN VILLAGE DRIVE
City, State, Zip SACRAMENTO, CALIFORNIA 95827
Phone (916) 369-8971
Order Placed By LIZ GILLIS
Signature of Authorized Agent [Signature]
Date 10/31/90
Title Field Tech

WASTE TO BE DISPOSED

Type 2. Non 02 soil

2 Generating Location CARPENTERIA, CALIFORNIA

Special Handling Instructions:

☐ Gloves ☐ Goggles ☒ Other NONE

Quantity _____ Bbls.

DESIGNATED FACILITY

3 Name LIQUID WASTE MANAGEMENT, INC.
Address STATE ROUTE BOX 4
City, State, Zip MC KITTRICK, CALIFORNIA 93251
Phone (805) 762-7607

TRANSPORTER

(Hauler Must Complete)

Name K.V.S. TRANSPORTATION, INC.
Address POST OFFICE BOX 5295
City, State, Zip BAKERSFIELD, CALIFORNIA 93388
Phone (805) 589-5220
Signature of Authorized Agent or Driver [Signature]
Date 10-31-90

Ticket # 101575 Unit No. 7-36 1300

Pick Up Date 10-31-90 Time 1:00 ☐ AM ☒ PM

NOTE: This form to be used in lieu of the California Department of Health Services Hazardous Waste Manifest for NON-HAZARDOUS wastes only.

REMARKS:

L.W.M. ACCEPTANCE NO. 102590-279

DISPOSAL FACILITY

(Facility Operator Must Complete)

Name [Signature]
Address [Signature]
City, State, Zip 2001 1/2 Highway 100, 93220
Phone 707/711 Disp. Ticket # 40159
Signature of Authorized Agent [Signature] Date _____

Quantity Received 22.59 Bbls. Date 10-31-90

1,355.1K Time _____ ☐ AM ☐ PM

DISPOSAL METHOD: ☐ Surface Impoundment ☐ Injection
☒ Landfill ☐ Other _____

Return Copy To: **GENERATOR UNLESS OTHERWISE SPECIFIED**

NOTE: It is not necessary to send copy to Dept. of Health Services.
NO HAZARDOUS WASTES SHOULD BE REIFIED

KERN BACKHOE SERVICE INC. — KERN VACUUM SERVICE

40158

Well, Tank No. _____

P.O. BOX 5337 • BAKERSFIELD, CALIFORNIA 93388

Field or Area _____

(805) 589-5220

No 14714

KERN VACUUM

NON-HAZARDOUS WASTE HAULER RECORD TO BE USED FOR NON-HAZARDOUS WASTES ONLY

GENERATOR

(Generator Must Complete)

1 Name S. P. TRANSPORTATION CO.
Field Address 9719 LINCOLN VILLAGE DRIVE
City, State, Zip SACRAMENTO, CALIFORNIA 95827
Phone (916) 369-8971
Order Placed By LIZ GILLIS
Signature of Authorized Agent [Signature]
Date 10-31-90
Title Field Manager

WASTE TO BE DISPOSED

2 Type _____
Generating Location CARPENTERIA, CALIFORNIA
Special Handling Instructions:
☐ Gloves ☐ Goggles ☒ Other NONE
Quantity _____ Bbls.

DESIGNATED FACILITY

3 Name LIQUID WASTE MANAGEMENT, INC.
Address STAR ROUTE BOX 4
City, State, Zip MC KITTRICK, CALIFORNIA 93251
Phone (805) 762-7607

TRANSPORTER

(Hauler Must Complete)

Name S.V.S. TRANSPORTATION, INC.
Address POST OFFICE BOX 5295
City, State, Zip BAKERSFIELD, CALIFORNIA 93388
Phone (805) 589-5220
Signature of Authorized Agent or Driver MIKE KIDDY
Date 10-31-90

Ticket # 100281 Unit No. 412 1087
Pick Up Date 10-31-90 Time _____ ☐ AM ☐ PM

NOTE: This form to be used in lieu of the California Department of Health Services Hazardous Waste Manifest for NON-HAZARDOUS wastes only.

REMARKS:

L.W.M. ACCEPTANCE NO. 102590-579

DISPOSAL FACILITY

(Facility Operator Must Complete)

Name P.O. Box 1111
Address Star Route Box 4
City, State, Zip MC KITTRICK, CALIFORNIA 93251
Phone (805) 762-7607 / Disp. Ticket # 100281
Signature of Authorized Agent _____ Date _____

Quantity Received 25.50 Bbls. Date 10-31-90

Time _____ ☐ AM ☐ PM

DISPOSAL METHOD: ☐ Surface Impoundment ☐ Injection
☒ Landfill ☐ Other _____

Return Copy To: **GENERATOR UNLESS OTHERWISE SPECIFIED**

NOTE: It is not necessary to send copy to Dept. of Health Services.
NO HAZARDOUS FEES SHOULD BE CHARGED

KERN BACKHOE SERVICE INC. — KERN VACUUM SERVICE

11/15/70
40156

Well, Tank No. _____

P.O. BOX 5337 • BAKERSFIELD, CALIFORNIA 93388

Field or Area 05147

(805) 589-5220

Nº 14713

KERN VACUUM

NON-HAZARDOUS WASTE HAULER RECORD TO BE USED FOR NON-HAZARDOUS WASTES ONLY

GENERATOR

(Generator Must Complete)

1 Name S. P. TRANSPORTATION CO.
Field Address 9719 LINCOLN VILLAGE DRIVE
City, State, Zip SACRAMENTO, CALIFORNIA 95827
Phone (916) 369-8971
Order Placed By LIZ GILLES
Signature of Authorized Agent _____
Date 10/31/90
Title Owner

WASTE TO BE DISPOSED

2 Type Soil
Generating Location CARPENTERIA, CALIFORNIA
Special Handling Instructions:
☐ Gloves ☐ Goggles ☒ Other NONE
Quantity _____ Bbls.

DESIGNATED FACILITY

3 Name LIQUID WASTE MANAGEMENT, INC.
Address STAR ROUTE BOX 4
City, State, Zip MC KITTRICK, CALIFORNIA 93251
Phone (805) 762-7607

TRANSPORTER

(Hauler Must Complete)

Name K.V.S. TRANSPORTATION, INC.
Address POST OFFICE BOX 5295
City, State, Zip BAKERSFIELD, CALIFORNIA 93388
Phone (805) 589-5220
Signature of Authorized Agent or Driver _____
Date 10/31/90

Ticket # 101388 Unit No. 740 1743

Pick Up Date 10-31-90 Time _____ ☐ AM ☒ PM

NOTE: This form to be used in lieu of the California Department of Health Services Hazardous Waste Manifest for NON-HAZARDOUS wastes only.

REMARKS:

L.W.M. ACCEPTANCE NO. 102590-379

DISPOSAL FACILITY

(Facility Operator Must Complete)

Name Ph. 100
Address #1336.00
City, State, Zip 10251
Phone 10251 / Disp. Ticket # 10251

Quantity Received 22.27 Bbls. Date 10/31/90

Time _____ ☐ AM ☐ PM

DISPOSAL METHOD: ☐ Surface Impoundment ☐ Injection
☒ Landfill ☐ Other _____

GENERATOR UNLESS OTHERWISE SPECIFIED

KERN BACKHOE SERVICE INC. — KERN VACUUM SERVICE

Well, Tank No. _____

P.O. BOX 5337 • BAKERSFIELD, CALIFORNIA 93388

Field or Area 15149

(805) 589-5220

No 14711

NON-HAZARDOUS WASTE HAULER RECORD

TO BE USED FOR NON-HAZARDOUS WASTES ONLY

40118

GENERATOR

(Generator Must Complete)

1

Name S. P. TRANSPORTATION CO.

Field Address 9719 LINCOLN VILLAGE DRIVE

City, State, Zip SACRAMENTO, CALIFORNIA 95827

Phone (916) 369-8971

Order Placed By LIZ GILLIS

Signature of Authorized Agent [Signature]

Date 10-30-90

Title General

TRANSPORTER

(Hauler Must Complete)

Name K.V.S. TRANSPORTATION, INC.

Address POST OFFICE BOX 5295

City, State, Zip BAKERSFIELD, CALIFORNIA 93388

Phone (805) 589-5220

Signature of Authorized Agent or Driver [Signature]

Date 10-30-90

DISPOSAL FACILITY

(Facility Operator Must Complete)

Name Seguine Landfill Inc. Ph 610 142825

Address Star Route Box 4

City, State, Zip Rock Hill, SC 29327

Phone [Blank] / Disp. Ticket # 11111

Signature of Authorized Agent _____ Date _____

WASTE TO BE DISPOSED

Type Household Waste

2

Generating Location CARPENTERIA, CALIFORNIA

Special Handling Instructions:

☐ Gloves ☐ Goggles ☒ Other NONE

Quantity _____ Bbls.

DESIGNATED FACILITY

3

Name LIQUID WASTE MANAGEMENT, INC.

Address STAR ROUTE BOX 4

City, State, Zip NC KITTRICK, CALIFORNIA 93251

Phone (805) 762-7607

Ticket # 101833 Unit No. 196, 197

Pick Up Date 10/30/90 Time 9:30 ☒ AM ☐ PM

NOTE: This form to be used in lieu of the California Department of Health Services Hazardous Waste Manifest for NON-HAZARDOUS wastes only.

REMARKS:

LWM ACCEPTANCE NO. 102510 879

Quantity Received 23.97 Bbls Date 10-30-90

Time _____ ☐ AM ☐ PM

DISPOSAL METHOD: ☐ Surface Impoundment ☐ Injection ☒ Landfill ☐ Other _____

Return Copy To: **GENERATOR UNLESS OTHERWISE SPECIFIED**

NOTE: It is not necessary to send copy to Dept. of Health Services. NO HAZARDOUS FEES SHOULD BE RELEVIED

KERN BACKHOE SERVICE INC. — KERN VACUUM SERVICE

Well, Tank No. _____
Field or Area C5149

P.O. BOX 5337 • BAKERSFIELD, CALIFORNIA 93388
(805) 589-5220

No 14710

NON-HAZARDOUS WASTE HAULER RECORD TO BE USED FOR NON-HAZARDOUS WASTES ONLY

40117

GENERATOR

(Generator Must Complete)

1 Name S. P. TRANSPORTATION CO.
Field Address 9719 LINCOLN VILLAGE DRIVE
City, State, Zip SACRAMENTO, CALIFORNIA 95827
Phone (916) 369-8971
Order Placed By LIZ GILLIS
Signature of Authorized Agent [Signature]
Date 10-30-90
Title Field Tech

WASTE TO BE DISPOSED

Type Non-Hazardous

2 Generating Location CARPENTERIA, CALIFORNIA

Special Handling Instructions:

☐ Gloves ☐ Goggles ☒ Other NONE

Quantity _____ Bbls.

DESIGNATED FACILITY

3 Name LIQUID WASTE MANAGEMENT, INC.
Address STAR ROUTE BOX 4
City, State, Zip MC KITTRICK, CALIFORNIA 93251
Phone (805) 762-7607

TRANSPORTER

(Hauler Must Complete)

Name K.V.S. TRANSPORTATION, INC.
Address POST OFFICE BOX 5295
City, State, Zip BAKERSFIELD, CALIFORNIA 93388
Phone (805) 589-5220
Signature of Authorized Agent or Driver [Signature]
Date 10-30-90

Ticket # _____ Unit No. 3911394

Pick Up Date 10-30-90 Time 7:15 ☒ AM ☐ PM

NOTE: This form to be used in lieu of the California Department of Health Services Hazardous Waste Manifest for NON-HAZARDOUS wastes only.

REMARKS:

L.W.M. ACCEPTANCE NO. 102590-879

DISPOSAL FACILITY

(Facility Operator Must Complete)

Name [Signature]
Address [Signature]
City, State, Zip McKittrick 93251
Phone (805) 712-7766 / Disp. Ticket # 40117
Signature of Authorized Agent [Signature] Date 10-30-90

Quantity Received 25.15 Bbls. Date 10-30-90

Time _____ ☐ AM ☐ PM

DISPOSAL METHOD: ☐ Surface Impoundment ☐ Injection
☒ Landfill ☐ Other _____

Return Copy To: **GENERATOR UNLESS OTHERWISE SPECIFIED**

NOTE: It is not necessary to send copy to Dept. of Health Services.
NO HAZARDOUS FEES SHOULD BE LEVIED

Well, Tank No. _____

P.O. BOX 5337 • BAKERSFIELD, CALIFORNIA 93388

Field or Area OS149

(805) 589-5220

Nº 14709

NON-HAZARDOUS WASTE HAULER RECORD
TO BE USED FOR NON-HAZARDOUS WASTES ONLY

40116

GENERATOR

(Generator Must Complete)

1 Name S. P. TRANSPORTATION CO.
Field Address 9719 LINCOLN VILLAGE DRIVE
City, State, Zip SACRAMENTO, CALIFORNIA 95827
Phone (916) 369-8971
Order Placed By LIZ GILLIS
Signature of Authorized Agent [Signature]
Date 10/30/90
Title Field Tech

TRANSPORTER

(Hauler Must Complete)

Name K.V.S. TRANSPORTATION, INC.
Address POST OFFICE BOX 5295
City, State, Zip BAKERSFIELD, CALIFORNIA 93388
Phone (805) 589-5220
Signature of Authorized Agent or Driver MIKE PRIDDY Mike Priddy
Date 10-30-90

DISPOSAL FACILITY

(Facility Operator Must Complete)

Name L.W.M. Inc. *ph# 6*
Address Star Rt Box 4
City, State, Zip McKittrick Ca 93251
Phone 805-762-7366 / Disp. Ticket # 40116
Signature of Authorized Agent [Signature] Date 10-30-90
GENERATOR COPY

WASTE TO BE DISPOSEDType Non Haz - soil**2** Generating Location CARPENTERIA, CALIFORNIA

Special Handling Instructions:

☐ Gloves ☐ Goggles ☒ Other NONE

Quantity _____ Bbls.

DESIGNATED FACILITY**3** Name LIQUID WASTE MANAGEMENT, INC.Address STAR ROUTE BOX 4City, State, Zip MC KITTRICK, CALIFORNIA 93251Phone (805) 762-7607Ticket # 10280 Unit No. 412 1 292Pick Up Date 10-30-90 Time _____ ☐ AM ☐ PM**NOTE:** This form to be used in lieu of the California Department of Health Services Hazardous Waste Manifest for NON-HAZARDOUS wastes only.**REMARKS:**L.W.M. ACCEPTANCE NO. 102590-879Quantity Received 28.14 Bbls. Date 10-30-90Time _____ ☐ AM ☐ PMDISPOSAL METHOD: ☐ Surface Impoundment ☐ Injection
☒ Landfill ☐ Other _____Return Copy To: **GENERATOR UNLESS OTHERWISE SPECIFIED****NOTE:** It is not necessary to send copy to Dept. of Health Services.
NO HAZARDOUS FEES SHOULD BE LEVIED

KERN BACKHOE SERVICE INC. — KERN VACUUM SERVICE

Well, Tank No. _____

P.O. BOX 5337 • BAKERSFIELD, CALIFORNIA 93388

Field or Area 05149

(805) 589-5220

No 14708

NON-HAZARDOUS WASTE HAULER RECORD TO BE USED FOR NON-HAZARDOUS WASTES ONLY

40115

GENERATOR

(Generator Must Complete)

1 Name S. P. TRANSPORTATION CO.
Field Address 9719 LINCOLN VILLAGE DRIVE
City, State, Zip SACRAMENTO, CALIFORNIA 95827
Phone (916) 369-8971
Order Placed By LIZ GILLIS
Signature of Authorized Agent [Signature]
Date 10/30/90
Title Field Tech

TRANSPORTER

(Hauler Must Complete)

Name K.V.S. TRANSPORTATION, INC.
Address POST OFFICE BOX 5295
City, State, Zip BAKERSFIELD, CALIFORNIA 93388
Phone (805) 589-5220
Signature of Authorized Agent or Driver [Signature]
Date 10/30/90

DISPOSAL FACILITY

(Facility Operator Must Complete)

Name L.W.M. elre
Address Star Rt Box 4
City, State, Zip McKittrick, Ca 93251
Phone 805-762-7366 / Disp. Ticket # 40115
Signature of Authorized Agent [Signature] Date 10-30-90
GENERATOR COPY

WASTE TO BE DISPOSED

Type Non haz soil

2 Generating Location CARPENTERIA, CALIFORNIA

Special Handling Instructions:

☐ Gloves ☐ Goggles ☒ Other NONE

Quantity _____ Bbls.

DESIGNATED FACILITY

3 Name LIQUID WASTE MANAGEMENT, INC.
Address STAR ROUTE BOX 4
City, State, Zip MC KITTRICK, CALIFORNIA 93251
Phone (805) 762-7607

Ticket # 100828 Unit No. 384 1395

Pick Up Date 10/30/90 Time 9:30 ☒ AM ☐ PM

NOTE: This form to be used in lieu of the California Department of Health Services Hazardous Waste Manifest for NON-HAZARDOUS wastes only.

REMARKS:

L.W.M. ACCEPTANCE NO. 16 2590-829

Quantity Received 26.95 TON Date 10-30-90

Time _____ ☐ AM ☐ PM

DISPOSAL METHOD: ☐ Surface Impoundment ☐ Injection
☒ Landfill ☐ Other _____

Return Copy To: **GENERATOR UNLESS OTHERWISE SPECIFIED**

NOTE: It is not necessary to send copy to Dept. of Health Services.
NO HAZARDOUS FEES SHOULD BE LEVIED

Well, Tank No _____
Field or Area 05149

P.O. BOX 5337 • BAKERSFIELD, CALIFORNIA 93388
(805) 589-5220

No 14707

40114

NON-HAZARDOUS WASTE HAULER RECORD

TO BE USED FOR NON-HAZARDOUS WASTES ONLY

GENERATOR (Generator Must Complete)

1 Name S. P. TRANSPORTATION CO.
Field Address 9719 LINCOLN VILLAGE DRIVE
City, State, Zip SACRAMENTO, CALIFORNIA 95827
Phone (916) 369-8971
Order Placed By LIZ GILLIS
Signature of Authorized Agent [Signature]
Date 10/30/90
Title Field Rep

TRANSPORTER (Hauler Must Complete)

Name K.V.S. TRANSPORTATION, INC.
Address POST OFFICE BOX 5295
City, State, Zip BAKERSFIELD, CALIFORNIA 93388
Phone (805) 589-5220
Signature of Authorized Agent or Driver [Signature]
Date 10-30-90

DISPOSAL FACILITY (Facility Operator Must Complete)

Name Liquid Waste Mgmt, Inc. #6
Address Star Route Box 4
City, State, Zip McKittrick CA 93251
Phone 762-7366 / Disp. Ticket # 40114
Signature of Authorized Agent [Signature] Date 10-30-90

WASTE TO BE DISPOSED
Type Non-HAZ. Solid

2 Generating Location CARPENTERIA, CALIFORNIA
Special Handling Instructions:
☐ Gloves ☐ Goggles ☒ Other NONE
Quantity 18 yards. Bbls.

DESIGNATED FACILITY
3 Name LIQUID WASTE MANAGEMENT, INC.
Address STAR ROUTE BOX 4
City, State, Zip MC KITTRICK, CALIFORNIA 93251
Phone (805) 762-7607

Ticket # 10 1387 Unit No. T 401 T 43

Pick Up Date 10-30-90 Time AM
☒ AM ☐ PM

NOTE: This form to be used in lieu of the California Department of Health Services Hazardous Waste Manifest for NON-HAZARDOUS wastes only.

REMARKS:

L.W.M. ACCEPTANCE NO. 102590-879

Quantity Received 2584 Tons Date 10-30-90
Time AM
☐ AM ☐ PM

DISPOSAL METHOD: ☐ Surface Impoundment ☐ Injection
☒ Landfill ☐ Other

Return Copy To: **GENERATOR UNLESS OTHERWISE SPECIFIED**

NOTE: It is not necessary to send copy to Dept. of Health Services.
NO HAZARDOUS FEES SHOULD BE LEVIED

KERN BACKHOE SERVICE INC. — KERN VACUUM SERVICE

Well, Tank No. _____

P.O. BOX 5337 • BAKERSFIELD, CALIFORNIA 93388

Field or Area 05149

(805) 589-5220

No 14702

40014

NON-HAZARDOUS WASTE HAULER RECORD TO BE USED FOR NON-HAZARDOUS WASTES ONLY

GENERATOR

(Generator Must Complete)

1

Name S. P. TRANSPORTATION CO.

Field Address 9719 LINCOLN VILLAGE DRIVE

City, State, Zip SACRAMENTO, CALIFORNIA 95827

Phone (916) 369-8971

Order Placed By LIZ GILLIS

Signature of Authorized Agent [Signature]

Date 10/26/90

Title Field Tech

WASTE TO BE DISPOSED

Type NON - HAZARDOUS

2

Generating Location CARPENTERIA, CALIFORNIA

Special Handling Instructions:

☐ Gloves ☐ Goggles ☒ Other NONE

Quantity _____ Bbls

DESIGNATED FACILITY

3

Name LIQUID WASTE MANAGEMENT, INC.

Address STAR ROUTE BOX 4

City, State, Zip MC KITTRICK, CALIFORNIA 93251

Phone (805) 762-7607

TRANSPORTER

(Hauler Must Complete)

Name K.V.S. TRANSPORTATION, INC.

Address POST OFFICE BOX 5295

City, State, Zip BAKERSFIELD, CALIFORNIA 93388

Phone (805) 589-5220

Signature of Authorized Agent or Driver [Signature]

Date _____

Ticket # 100825 Unit No. 384 / 1375

Pick Up Date 10/26/90 Time 4:15 ☒ AM ☐ PM

NOTE: This form to be used in lieu of the California Department of Health Services Hazardous Waste Manifest for NON-HAZARDOUS wastes only.

REMARKS:

L.W.M. ACCEPTANCE NO. 102590 -879

DISPOSAL FACILITY

(Facility Operator Must Complete)

PA#65

Name L.W.M. Inc

Address Star Rt Box 4

City, State, Zip McKittrick, Ca 93251

Phone 805-762-7366 / Disp. Ticket # 40014

Signature of Authorized Agent [Signature]

Date

10-26-90

GENERATOR COPY

Quantity Received 23.54 Tons Date 10-26-90

Time _____ ☐ AM ☐ PM

DISPOSAL METHOD: ☐ Surface Impoundment ☐ Injection ☒ Landfill ☐ Other _____

Return Copy To: **GENERATOR UNLESS OTHERWISE SPECIFIED**

NOTE: It is not necessary to send copy to Dept. of Health Services. NO HAZARDOUS FEES SHOULD BE LEVIED

KERN BACKHOE SERVICE INC. — KERN VACUUM SERVICE

Well, Tank No. _____

P.O. BOX 5337 • BAKERSFIELD, CALIFORNIA 93388

Field or Area 05149

(805) 589-5220

No 14703

40019

NON-HAZARDOUS WASTE HAULER RECORD TO BE USED FOR NON-HAZARDOUS WASTES ONLY

GENERATOR

(Generator Must Complete)

1 Name S. P. TRANSPORTATION CO.
Field Address 9719 LINCOLN VILLAGE DRIVE
City, State, Zip SACRAMENTO, CALIFORNIA 95827
Phone (916) 369-8971
Order Placed By LIZ GILLIS
Signature of Authorized Agent [Signature]
Date 10/26/90
Title Field Tech

WASTE TO BE DISPOSED

Type NON-HAZARDOUS SOL

2 Generating Location CARPENTERIA, CALIFORNIA

Special Handling Instructions:

☐ Gloves ☐ Goggles ☒ Other NONE

Quantity _____ Bbls

DESIGNATED FACILITY

3 Name LIQUID WASTE MANAGEMENT, INC.
Address STAR ROUTE BOX 4
City, State, Zip MC KITTRICK, CALIFORNIA 93251
Phone (805) 762-7607

TRANSPORTER

(Hauler Must Complete)

Name K.V.S. TRANSPORTATION, INC.
Address POST OFFICE BOX 5295
City, State, Zip BAKERSFIELD, CALIFORNIA 93388
Phone (805) 589-5220
Signature of Authorized Agent or Driver [Signature]
Date 10-26-90

Ticket # 100 414 Unit No. 391 1394
Pick Up Date 10-26-90 Time 8:30 ☒ AM ☐ PM

NOTE: This form to be used in lieu of the California Department of Health Services Hazardous Waste Manifest for NON-HAZARDOUS wastes only.

REMARKS:

L.W.M. ACCEPTANCE NO. 102590-879

DISPOSAL FACILITY

(Facility Operator Must Complete)

Name L.W.M. Inc.
Address Star Rt Box 4
City, State, Zip McKittrick, CA 93251
Phone _____ / Disp. Ticket # 40019 10-26-90
Signature of Authorized Agent [Signature] Date 10-26-90
GENERATOR COPY

PH # 6.5

Quantity Received 20.28 Tons Date 10-26-90

Time _____ ☐ AM ☐ PM

DISPOSAL METHOD: ☐ Surface Impoundment ☐ Injection
☒ Landfill ☐ Other _____

Return Copy To: **GENERATOR UNLESS OTHERWISE SPECIFIED**

NOTE: It is not necessary to send copy to Dept. of Health Services.
NO HAZARDOUS FEES SHOULD BE LEVIED

KERN BACKHOE SERVICE INC. — KERN VACUUM SERVICE

Well, Tank No. _____

P.O. BOX 5337 • BAKERSFIELD, CALIFORNIA 93388

Field or Area 05104

(805) 589-5220

No 14704

40020

NON-HAZARDOUS WASTE HAULER RECORD TO BE USED FOR NON-HAZARDOUS WASTES ONLY

GENERATOR

(Generator Must Complete)

WASTE TO BE DISPOSED

Type HAZARDOUS SOLID

Generating Location CARPENTERIA, CALIFORNIA

Special Handling Instructions:

☐ Gloves ☐ Goggles ☒ Other NONE

Quantity _____ Bbls.

DESIGNATED FACILITY

Name LIQUID WASTE MANAGEMENT, INC.

Address STAR ROUTE BOX 4

City, State, Zip MC KITTRICK, CALIFORNIA 93251

Phone (805) 762-7607

TRANSPORTER

(Hauler Must Complete)

Name K.V.S. TRANSPORTATION, INC.

Address POST OFFICE BOX 5295

City, State, Zip BAKERSFIELD, CALIFORNIA 93388

Phone (805) 589-5220

Signature of Authorized Agent or Driver

Arthur R. Cadot (Arthur R. Cadot)

Date 10-26-90

Ticket # _____ Unit No. 347 1 321

Pick Up Date 10-26-90 Time 8:40 ☒ AM ☐ PM

NOTE: This form to be used in lieu of the California Department of Health Services Hazardous Waste Manifest for NON-HAZARDOUS wastes only.

REMARKS:

U.S.M. ACCEPTANCE NO. 102510-879

DISPOSAL FACILITY

(Facility Operator Must Complete)

Name 10015

Address 1114

City, State, Zip 1114

Phone 1114 / Disp. Ticket # 1114

Signature of Authorized Agent

Date

Quantity Received 10.22 Bbls. Date 10-26-90

Time _____ ☐ AM ☐ PM

DISPOSAL METHOD: ☐ Surface Impoundment ☐ Injection ☒ Landfill ☐ Other _____

Return Copy To: **GENERATOR UNLESS OTHERWISE SPECIFIED**

NOTE: It is not necessary to send copy to Dept. of Health Services. NO HAZARDOUS FEES SHOULD BE LEVIED

DISPOSAL COPY

KERN BACKHOE SERVICE INC. — KERN VACUUM SERVICE

Well, Tank No. _____

P.O. BOX 5337 • BAKERSFIELD, CALIFORNIA 93388

Field or Area 05149

(805) 589-5220

No 14706

NON-HAZARDOUS WASTE HAULER RECORD TO BE USED FOR NON-HAZARDOUS WASTES ONLY

40038

GENERATOR

(Generator Must Complete)

1 Name S. P. TRANSPORTATION CO.
Field Address 9719 LINCOLN VILLAGE DRIVE
City, State, Zip SACRAMENTO, CALIFORNIA 95827
Phone (916) 369-8971
Order Placed By LIZ GILLIS
Signature of Authorized Agent [Signature]
Date 10-26-90
Title Field Tech

TRANSPORTER

(Hauler Must Complete)

Name K.V.S. TRANSPORTATION, INC.
Address POST OFFICE BOX 5295
City, State, Zip BAKERSFIELD, CALIFORNIA 93388
Phone (805) 589-5220
Signature of Authorized Agent or Driver [Signature]
Date 10-26-90

DISPOSAL FACILITY

(Facility Operator Must Complete)

Name L.W.M.
Address Star Rt Box 4
City, State, Zip McKittrick Ca 93251
Phone 762-7366 / Disp. Ticket # _____
Signature of Authorized Agent [Signature] Date 10-26-90
GENERATOR COPY

WASTE TO BE DISPOSED

Type Non Hazardous - soil

2 Generating Location CARPENTERIA, CALIFORNIA

Special Handling Instructions:

☐ Gloves ☐ Goggles ☒ Other NONE

Quantity _____ Bbls

DESIGNATED FACILITY

3 Name LIQUID WASTE MANAGEMENT, INC.

Address STAR ROUTE BOX 4

City, State, Zip MC KITTRICK, CALIFORNIA 93251

Phone (805) 762-7607

Ticket # 101572 Unit No. 7-36188

Pick Up Date 10-26-90 Time 11:30 ☒ AM ☐ PM

NOTE: This form to be used in lieu of the California Department of Health Services Hazardous Waste Manifest for NON-HAZARDOUS wastes only.

REMARKS:

L.W.M. ACCEPTANCE NO. 102590-879

PH# 6.5 Quantity Received 21.98 Tons Date 10-26-90

Time _____ ☐ AM ☐ PM

DISPOSAL METHOD: ☒ Surface Impoundment ☐ Injection
☐ Landfill ☐ Other _____

Return Copy To: **GENERATOR UNLESS OTHERWISE SPECIFIED**

NOTE: It is not necessary to send copy to Dept. of Health Services.
NO HAZARDOUS FEES SHOULD BE LEVIED

PRELIMINARY SITE ASSESSMENT

Carpinteria, California

Prepared for:

Union Pacific Railroad Company

1416 Dodge Street, Room 930

Omaha, Nebraska 68179

July 1999

Project No. 4221.20

Geomatrix Consultants

2101 Webster Street
12th Floor
Oakland, CA 94612
510) 553 4100 • FAX (510) 553 4141



July 20, 1999
Project 4221.20

Mr. Norm Siler
Union Pacific Railroad
1416 Dodge Street, Room 930
Omaha, Nebraska 68179

Subject: Preliminary Site Assessment Report
Carpinteria Sale Properties
Carpinteria, California

Dear Norm:

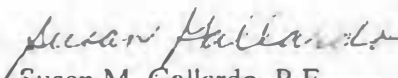
Enclosed is a copy of the subject report prepared by Geomatrix Consultants, Inc. This report summarizes the preliminary site assessment performed for the Union Pacific Railroad (UPRR) properties in Carpinteria, California.

As we discussed, a future buyer of the property may choose to investigate the recognized environmental concerns identified in this report by performing a soil and grab groundwater sampling program. These recognized environmental conditions are attributed to potential impacts to the site from off-site sources and on-site activities by entities other than UPRR.

We appreciate the opportunity to continue providing UPRR with our consulting services. Please call either of the undersigned if you have any questions or require additional information.

Sincerely yours,
GEOMATRIX CONSULTANTS, INC.


Penny M. Tse, P.E.
Project Engineer


Susan M. Gallardo, P.E.
Principal Engineer

PMT/SMG
I:\Doc_Safe\4000s\4221.20\PSAcvrltr.doc

Enclosure

cc: Don Caldwell, UPRR Real Estate (2 copies)

Geomatrix Consultants, Inc.
Engineers, Geologists, and Environmental Scientists



SUMMARY – PHASE 1 ENVIRONMENTAL SITE ASSESSMENT

Carpinteria Sale Properties

July 21, 1998

Lat/Long:

Carpinteria, California

Project: 4221.020

Points of Contact

Union Pacific Real Estate: Don Caldwell (323) 980-6931

Union Pacific Environmental Management: Norm Siler (402) 271-4327

Geomatrix Consultants, Inc.: Penny Tse (510) 663-4100

Site Photo

See Appendix A

Current Status

- A bicycle rental operation was observed on the southern portion of the site.

Regulatory Status

None known at this time.

Summary of Potential Environmental Concerns

- Northeastern: None
- Northwestern: None
- Southern: Possible presence of gasoline UST and petroleum hydrocarbons in shallow soil in former Standard Oil Company operating area.
- Off-site Issues: Three nearby environmental cases were identified that could affect groundwater at the site

Site Description

Site and Vicinity Characteristics

- 4.7 acre site consisting of three portions: northeastern (0.7 acres), northwestern (1.5 acres), and southern (2.5 acres)
- Site area on sides of (north/south) railroad tracks
- Area surrounding site is commercial, residential, and recreational.

Primary Structures and Facilities

- The site is mostly vacant consisting of open vegetated fields, unpaved lots and maintained grass lawn
- Automobile encroachment by adjacent residences and wood chip waste pile was observed on the northwestern portion of the site

Geology/Hydrogeology

Geology – floodplain deposits of silt, sand, gravel and localized clay layers; the Rincon Creek Thrust Fault transects the southern portion of the site.

Groundwater Depth: ~7-25 feet bgs in site vicinity

Groundwater Flow Direction: primarily to the west

Historical Use

- Northeastern: industrial in area, no specific use indicated for site area itself.
- Northwestern: portions leased to nursery, three USTs were removed from this area and regulatory closure was obtained.
- Southern: used by Standard Oil Company with oil storage building, platform, pump house, and gasoline tank.

TABLE OF CONTENTS

		Page
1.0	INTRODUCTION	1
2.0	SITE SETTING	2
2.1	GEOLOGIC AND HYDROGEOLOGIC SETTING	2
3.0	SITE HISTORY	3
3.1	SANBORN FIRE INSURANCE MAPS	3
3.2	AERIAL PHOTOGRAPHS	3
3.3	INFORMATION FROM UPRR	4
4.0	SITE RECONNAISSANCE	4
4.1	OBSERVATIONS AND CONDITIONS ON SITE	4
4.2	OBSERVATIONS AND CONDITIONS ADJACENT TO THE SITE	5
5.0	REVIEW OF AGENCY FILES	5
5.1	FUEL LEAK CASES	6
5.2	PERMITTED UNDERGROUND STORAGE TANKS	7
6.0	SUMMARY	8
6.1	SUMMARY OF FINDINGS	8
6.2	RECOGNIZED ENVIRONMENTAL CONDITIONS	8
7.0	LIMITATIONS	9
8.0	LIST OF REFERENCES	10

TABLE

Table 1	Selected Documented Regulatory Agency Sites
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FIGURES

Figure 1	Site Location Map
Figure 2	Site Plan

APPENDIXES

Appendix A	Site Photographs
Appendix B	Environmental Data Resources, Inc. Report
Appendix C	Site Maps and Closure Letter for 399 Linden Avenue

PRELIMINARY SITE ASSESSMENT

Union Pacific Railroad Sale Property Carpinteria, California

1.0 INTRODUCTION

This report summarizes a preliminary assessment of environmental conditions at the Union Pacific Railroad Company (UPRR) sale property in Carpinteria, California (Figure 1). Geomatrix Consultants, Inc. (Geomatrix), performed the site assessment on behalf of UPRR according to the provisions of Service Order No. 2796 (Contract Audit No. 701140).

The objectives of the preliminary site assessment (PSA) were to: (1) evaluate whether past on-site and off-site activities may have affected soil and groundwater quality beneath the site; (2) evaluate whether current on-site activities may affect soil and groundwater quality at the site; and (3) assist UPRR in assessing whether a Phase II program consisting of soil and/or groundwater sampling and chemical analysis may be necessary to further evaluate site conditions.

To accomplish these objectives, the PSA was performed in general accordance with guidelines for PSAs set forth in ASTM¹ E 1527-97 entitled *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM guideline). This preliminary assessment did not include a property title search or identification of all previous tenants; collection and chemical analysis of samples of soil, groundwater, or on-site materials; an evaluation of the presence of asbestos and radon; or an evaluation of seismic characteristics. The major components of the PSA were:

- site reconnaissance to observe and document general conditions and activities at the site and immediately adjacent properties;
- review of available Sanborn Fire Insurance (Sanborn) maps, historical aerial photographs for the site, and information provided by the UPRR real estate department;

¹ American Society for Testing and Materials.

- review of information that is publicly maintained and available regarding documented on-site and off-site chemical releases that may affect soil or groundwater conditions at the site; and
- data evaluation and report preparation.

2.0 SITE SETTING

The site is located in Carpinteria, California, between Holly Avenue and approximately 200 feet south of Palm Avenue (Figure 1). The site is approximately 4.7 acres. For purposes of clarity and potential future division of the site into different sale properties (personal communication with Don Caldwell, UPRR Real Estate), we have divided the site into three areas. The northeastern portion of the site refers to approximately 0.7 acres that is east of the main line railroad tracks. The northwestern portion of the site is approximately 1.5 acres and is located on the west side of the tracks between Holly and Linden Avenues. The southern portion of the site is the remainder of the site that is west of the main line railroad tracks south of Linden Avenue. This portion is approximately 2.5 acres. The three areas are shown on Figure 2. General land use of the adjacent properties is commercial, residential and recreational

2.1 GEOLOGIC AND HYDROGEOLOGIC SETTING

Based on information available in reports from nearby sites that were reviewed by Geomatrix (Secor, 1996; Fluor Daniel GTI, 1997), the site is located within the Carpinteria Basin, an east-west trending alluvial basin bound by the Santa Ynez mountains on the north and the Pacific Ocean on the south. The Carpinteria Basin extends westward for the Ventura County line (approximately 2.8 miles east of the site) to Torro Canyon (approximately 3.5 miles west of the site). The Carpinteria Basin contains several thousand feet of unconsolidated Recent and Pleistocene floodplain deposits of silt, sand, gravel and localized clay layers. These unconsolidated deposits are underlain by the non-marine, Early to Middle Pleistocene Casitas Formation. According to Dibblee (1986), the east-west trending Rincon Creek Thrust Fault transects the southern portion of the site approximately 200 to 300 feet north of Palm Avenue. Based on the U.S. Geological Survey (U.S.G.S.) topographic map (Carpinteria Quadrangle), the elevation of the site is approximately 20 feet above mean sea level.

The Rincon Creek Fault divides the Carpinteria Basin into two separate groundwater storage units. Based on information from nearby sites located north of the Rincon Creek Fault defined as Storage Unit No. 1 (Secor, 1996; Fluor Daniel GTI, 1997), depth to groundwater in the site

vicinity ranges from approximately 7 to 25 feet below ground surface (bgs). Groundwater flow direction is toward the west with an average horizontal hydraulic gradient of 0.05 foot per foot. We did not obtain hydrogeologic information for the storage unit south of Rincon Creek Fault.

3.0 SITE HISTORY

3.1 SANBORN FIRE INSURANCE MAPS

Geomatrix retained EDR Sanborn, Inc. (EDR), of Southport, Connecticut, to identify and supply Sanborn Fire Insurance Maps (Sanborn Maps) of the site. EDR provided one Sanborn Map for the year 1929. This map was limited in coverage of the site area showing only a portion of the site between Linden and Palm Avenues. The on-site features shown on the Sanborn map are located adjacent to and south of Linden Avenue. Features located west of and adjacent to the railroad tracks include an oil storage building, platform, pump house, and a gasoline tank (possibly underground) associated with the Standard Oil Company.

According to EDR, no other Sanborn Maps were available for subsequent years or other areas of the site.

3.2 AERIAL PHOTOGRAPHS

Geomatrix retained EDR to identify and supply historical aerial photographs of the site. EDR provided aerial photographs of the site and vicinity from the years 1947, 1959, 1964, 1978, 1989, and 1994. The approximate scale of these photographs ranged between 1 inch = 666 feet to 1 inch = 1000 feet.

In the 1947 photograph, the majority of the site vicinity appeared to be undeveloped vacant land with the exception of two areas. Areas near the site between Linden and Maple Avenues and Linden and Elm Avenues appeared to be occupied by buildings or structures; however these structures do not appear to be on site. The use of these areas could not be determined due to the scale (1 inch = 1000 feet) of the photograph.

In the 1959 photograph, the features observed between Linden and Maple Avenues have been removed. In the area between Linden and Elm Avenues, structures were observed only on the northern half of the area; the remaining portion of this area appeared to be vacant. No significant changes were noted in the 1964 photograph.

In the 1978 photograph, the entire site appeared to be vacant. In the 1989 photograph, the area of the site between Linden and Palm Avenues appeared to be part of the Carpinteria State Beach with trees and some vegetation. Some structures might have been located on the area of the site between Linden and Elm Avenues; however the quality and resolution of the photograph were not adequate enough to clearly distinguish these potential features.

In the 1994 photograph, the site appeared to be vacant and unoccupied.

During the photograph review, general observations were made of the surrounding area. Carpinteria State Beach borders the western side of the site between Linden and Palm Avenues. The general use of the area appeared to include a mixture of undeveloped/agricultural, residential and commercial use. Over the time period reviewed, the density of residential and commercial features increased while undeveloped and agricultural areas appeared to decrease. Other significant changes observed in the 1959 photograph included the presence of: (1) a wastewater treatment plant south of the site; and (2) Highway 101 to the east of the site.

3.3 INFORMATION FROM UPRR

Information from the UPRR sale property program provided by the UPRR Real Estate department was reviewed. Per Don Caldwell, property east of the railroad tracks historically was industrial; the specific use of the northeastern portion of the site is not known. Additionally, parts of the northwestern and southern portions of the site were leased to a nursery. Specific historical operating areas were not identified in the information reviewed.

According to UPRR, a UST removal and subsequent sampling was performed for an adjacent UPRR parcel located east of the main line railroad tracks between Palm and Olive Avenues. Regulatory closure was obtained for this site in July 1997.

4.0 SITE RECONNAISSANCE

4.1 OBSERVATIONS AND CONDITIONS ON SITE

Geomatrix staff performed reconnaissance of the site and adjacent properties on June 29, 1999. With a few exceptions the site is primarily vacant with vegetation, unpaved lots and maintained grass lawn. A bicycle rental structure and two associated bicycle storage containers and a high voltage electrical box are located on the southern portion of the site. A wood chip waste pile (approximately 6 cubic yards) was observed just north of Linden Avenue on the northwestern portion of the site. Automobile parking encroachment by adjacent residences was observed

along the entire length of the northwestern portion of the site. Photographs of the site are included in Appendix A.

4.2 OBSERVATIONS AND CONDITIONS ADJACENT TO THE SITE

The site is divided by Union Pacific railroad track and easements. General usage of the area includes residential, industrial and California State park land. Underground fiber-optic cables are marked by PVC poles and run parallel to the railroad tracks. Property uses northeast of the site are primarily industrial (flag manufacturing) and commercial (warehousing, restaurants, building contracting and offices). On an adjacent property southeast of the site is a dirt lot with four 3-legged wooden pole structures of unknown use. The Carpinteria sewage treatment plant also is located southeast of the site. A recreational vehicle sewage dumping station lies to the south in the Carpinteria State Beach campground. A water pump station was observed to the west, also for the State Beach. The remainder of the western border is residential.

5.0 REVIEW OF AGENCY FILES

Geomatrix retained EDR to search applicable regulatory databases to identify properties with documented environmental releases and/or that use, store, or dispose of regulated chemicals. The radii of the database search corresponded to the recommended radii in the ASTM guideline. The EDR report is included in Appendix B.

EDR identified approximately 39 environmental cases located within the search radius. Geomatrix reviewed the EDR report to identify cases that may affect site soil and groundwater using a ¼-mile radius for permitted USTs cases and a ½-mile radius for toxic and fuel leak cases. Twelve of the 39 cases were documented leaking underground storage tank (LUST) cases. Based on the information provided by EDR, six of these cases have been closed by the overseeing regulatory and are inactive. Geomatrix reviewed files for the remaining six LUST cases for which their status was unclear or listed as active in the EDR report. Based on the database search information, these six cases appeared to have the highest potential to affect site soil and groundwater and are summarized on Table 1 and in Section 5.1 below. Geomatrix reviewed regulatory agency files for these sites to obtain additional information pertaining to their current status. Information was requested from records maintained by the County of Santa Barbara, Department of Environmental Health (SBDEH) and the California Regional Water Quality Control Board, Central Coast Region (RWQCB). The following section summarizes the information provided by EDR and obtained during the regulatory agency file review.

5.1 FUEL LEAK CASES

The EDR database search identified Orchard Services located at 399 Linden Avenue as a LUST case. This case was located on the site west of Linden Avenue on the northwestern portion of the site. SBDEH file information indicates that three fuel USTs were removed in 1990. Soil excavation and groundwater monitoring was initiated in 1990. Associated monitoring wells were abandoned and the site was granted closure by the SBDEH in 1996. Site maps and a copy of the closure letter for this case included in Appendix C.

The EDR database search identified Carpinteria Motor Transport located at 410 Palm Avenue as a LUST case. This property is located less than ¼ mile northeast of the site. Reports reviewed at the RWQCB indicate that three fuel USTs were removed in the mid-1980s and that excavation and soil treatment has been performed. The case was granted closure in 1989 by SBDEH¹. Based on source removal activities at the property and the cross-gradient location of the property relative to the site, it is unlikely that this fuel leak case adversely impacted environmental conditions at this site.

The EDR database search identified Carpinteria Valley Lumber Company located at 915 Elm Street as a LUST case. This property is located approximately 1/4 mile north-northeast of the site. Information at SBDEH indicate that two fuel USTs were removed in 1988 and an “underground storage tank unauthorized release (leak)” report was filed associated with the tank removal activities. The leak report indicated that a remedial action to excavate and dispose would be implemented. No further information was available during the file review at SBDEH. Based on the information reviewed and the possible up- or cross-gradient location of the site, this case could have adversely impacted the environmental conditions at the site.

The EDR database search identified Chevron USA, Inc. located at 4991 Carpinteria Avenue as a LUST case approximately 1/2 mile northeast of the site. Reports at the SBDEH indicate that a gasoline spill occurred at this site and that subsequently, “adsorbed-phase hydrocarbons” were identified in the subsurface. After investigation and groundwater monitoring took place, the site was closed by the SBDEH and the RWQCB in 1998. Based on the results of groundwater monitoring and recent regulatory closure due to “compliance with RWQCB

¹ Information obtained during the Carpinteria Motor Transport file review at SBDEH indicated that affected soil was discovered from a petroleum UST located on UPRR property. Based on the location of the Carpinteria Motor Transport site and UPRR file information (Section 3.3), the referenced UST was likely located on the east side of the railroad track between Palm to Olive Avenues. As described in Section 3.3, this site was closed in July 1997.

groundwater clean up concentrations²”, it is unlikely that this property adversely impacted the environmental conditions at the site.

The EDR database search identified Exxon/McDonald’s located at 1115 Casitas Pass Road as a LUST case. This property is located approximately ½ mile northeast of the site. Reports at the SBDEH indicate that unleaded fuel was accidentally released and that free-product was found in groundwater associated with property’s USTs between 1983 and 1985. Active soil and groundwater remediation activities for this case have been in operation since January 1999. Based on the information reviewed and the possible up- or cross-gradient location of the site, this case could have adversely impacted the environmental conditions at the site.

The EDR database search identified Arco Station #1980 located at 1116 Casitas Pass Road as a LUST case. This property is located approximately ½ mile northeast of the site. Information in SBDEH files indicate that four gasoline USTs were removed and quarterly groundwater monitoring was initiated in 1989. A 1998 document in the file indicated that the case required additional groundwater assessment, in particular, for methyl-tert-butyl-ether (MtBE) which was detected in a downgradient (specific location not identified) well. Soil sampling was performed in February 1999 in the vicinity of current operational pump islands. Three 12,000 gallon double-contained USTs are located at this property. Based on the information reviewed and the possible up- or cross-gradient location of the site, this case could have adversely impacted the environmental conditions at the site.

5.2 PERMITTED UNDERGROUND STORAGE TANKS

EDR identified five facilities with permitted underground storage tanks within ¼ mile of the center of the site. These sites are: Orchard Services at 399 Linden Avenue, Carpinteria at 5361 Sixth Street, Wullbrandt Welding at 655 Linden Avenue, Carpinteria Motor Transport at 410 Palm Avenue, and Maintenance Yard at 5361 6th Street.

There is no record of a permit or removal of a gasoline tank in the southern portion of the site. As previously indicated in Section 3.1, it is unknown whether the tank identified in the Sanborn map was an above- or underground storage tank.

² Specific cleanup concentrations are documented in a September 15, 1998 RWQCB letter.



6.0 SUMMARY

6.1 SUMMARY OF FINDINGS

The primary findings of the PSA that may be pertinent to potential environmental conditions at the site are summarized below:

- **Hydrogeologic Conditions:** Environmental investigations at nearby properties indicate that the groundwater flow direction is documented primarily to the west. The depth to groundwater for these sites range from approximately 7 to 25 feet bgs.
- **Current Site Conditions:** The site is mostly vacant consisting of open vegetated fields, unpaved lots and maintained grass lawn. A bicycle rental operation was observed on the southern portion of the site. Automobile encroachment by adjacent residences and a wood chip waste pile was observed on the northwestern portion of the site.
- **Historic Operations/Use:** Use of the northeastern portion of the site may have been industrial. Parts of the northwestern and southern portions of the site were leased to a nursery. In the area of the southern portion of the site just south of Linden Avenue, the property was used by Standard Oil Company including an oil storage building, platform, pump house, and a gasoline tank.
- **Off-Site Properties:** Specific off-site issues that could affect groundwater at the site were identified from the information sources Geomatrix reviewed. These include Carpinteria Valley Lumber Company (915 Elm Street), Exxon/McDonald's (1115 Casitas Pass Road), and Arco Station #1980 (1116 Casitas Pass Road).

6.2 RECOGNIZED ENVIRONMENTAL CONDITIONS

Based on the primary findings identified in this report, the recognized environmental conditions that could affect the site are as follows:

- **Northeastern portion of the site:** No specific environmental conditions were identified for this portion of the site. Although the historical use of this area of the site was industrial, no specific information reviewed at this time indicates that this portion of the site was an active area.
- **Northwestern portion of the site:** No specific environmental conditions were identified for this portion of the site. Although the historical use of this area and the southern portion of the site were leased to a nursery, chemical usage associated with the site (fuel USTs) has been addressed and closed by the SBDEH. It is assumed that small quantities of pesticides may have been used as part of nursery operations; however, because the use of these chemicals likely was limited, no significant environmental impact would have occurred.

- Southern portion of the site: A gasoline UST may have been located south of Linden Avenue associated with the former Standard Oil Co. Additionally, operating areas of this facility could have affected with petroleum hydrocarbons and related constituents.
- Three off-site issues [Carpinteria Valley Lumber Company (915 Elm Street), Exxon/McDonald's (1115 Casitas Pass Road), and Arco Station #1980 (1116 Casitas Pass Road)] were identified that could affect groundwater at the site.

7.0 LIMITATIONS

This assessment reflects results of work performed in accordance with the terms and conditions of Service Order No. 2796 (Contract Audit No 701140). The observations and conclusions presented in this report are based on information obtained through the work described herein. The scope of services did not include sample collection and analysis for hazardous materials. In addition, this assessment did not evaluate asbestos, radon, or seismic risk. It must be recognized that any conclusions regarding the history and environmental conditions of the site and neighboring sites rely on the completeness and integrity of the information available at the time of the assessment and the cooperation of persons contacted. As such, no absolute determination can be made of all environmental risks. Opinions presented herein apply to conditions observed or data obtained at the time of our assessment and cannot apply to site conditions or changes of which we are not aware or which we have not had the opportunity to evaluate. This assessment is provided by Geomatrix for the specific use of Union Pacific Railroad Company and may not contain sufficient information for the purposes of other parties.

8.0 LIST OF REFERENCES

- American Society for Testing and Materials (ASTM), 1997 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Designation: E 1527-97.
- County of Santa Barbara, Protection Services Division, 1996, Letter to Mr. John Moe, Southern Pacific Transportation Company, 399 Linden Avenue, Carpinteria, California, LUFT Site #50119, May 13.
- TerraNext, 1996, Report for Groundwater Monitoring at the Former Orchard Services Site, Southern Pacific Transportation Company, 399 Linden Avenue, Carpinteria, California, February 20.
- SP Environmental Systems, Inc. (1990), Site Investigation and Remediation Report, Southern Pacific Transportation Company, Carpinteria, California, November 21, 1990.
- Dibblee, Thomas W. Jr., 1986, Geologic Map of the Carpinteria Quadrangle, Santa Barbara County, California.
- Flour Daniel GTI, 1997, Additional Site Investigation report for former Chevron Site No. 9-0796, 4991 Carpinteria Avenue, Carpinteria, California, October 15.
- Secor International, Inc., 1996, Additional Assessment Workplan, ARCO Station 1980, 1116 Casitas Pass Road, Carpinteria, California, June 17.

TABLE

TABLE 1

SELECTED DOCUMENTED REGULATORY AGENCY SITES

Carpinteria Sale Property
Carpinteria, California

Page 1 of 3

Site Map ID ¹	Site Name	Site Address	Source(s) of Information	Year(s) of Information	Site History and Description	Constituents Detected in Soil and Groundwater and Maximum Concentrations	Depth to Groundwater (feet below ground surface)	Direction of Groundwater Flow	Distance (miles) and Direction from Site
A1	Orchard Services	399 Linden Avenue	Santa Barbara County Fire Department	11/90 – 5/96	2/90: Two USTs removed and samples taken. Further investigation was required. 1990-91: Two stages of soil excavation/remediation took place and a third tank was discovered and removed. 4/92: Closure requested. More investigation was required by Santa Barbara County. 5/96: Closure granted by Santa Barbara County. Investigations monitoring and remedial activity completed.	Soil (mg/kg) TPHms 3,800 Total Lead 120 B 0.06 T 0.59 E 2.8 X 0.86 Groundwater (µg/l) BTEX <0.5 TPH <50	8.0 – 9.3	Southwest	On-site
E14	Carpinteria Motor Transport	410 Palm Avenue	Santa Barbara County Fire Department	3/88-8/89	- mid-1980s: One gasoline and two diesel USTs were removed in mid 1980s. 180 cu yds of soil was excavated. Accurate extent and source of affected soil not defined. Three monitoring wells installed after first excavation and tank removal. Two sources of contamination assumed (one on-site and one southwest of site). 8/88: Additional investigation performed. 200 cu yds of soil treated with bacterial treatment process (Munox bacterial inoculant). 2/89: Site granted closure by Santa Barbara County.	Soil (mg/kg): TRPH 1300 TVPH 230 Volatile Organics 150 Other VOCs 0 - 0.076 B 0.15 T 6.0 E 28.0 X 5.0 Groundwater (µg/l) TRPH 6.0 TVPH 53,000 B 1600 T 1700 X 6900	7 - 8	NR	<¼ mile Southeast
126	Carpinteria Valley Lumber Company	915 Elm Street	Santa Barbara County Fire Department	1/86 – 9/88	5/88: Applied to abandon two USTs (diesel and gasoline). 9/88: County found evidence of affected soil during UST abandonment inspection. 9/88: Filed report for unauthorized release of gasoline indicating plan to excavate and dispose affected soil.	Soil (mg/kg) TPH 25	15 –20	NR	¼ mile North-Northeast

TABLE 1

SELECTED DOCUMENTED REGULATORY AGENCY SITES

Carpinteria Sale Property
Carpinteria, California

Page 2 of 3

Site Map ID ¹	Site Name	Site Address	Source(s) of Information	Year(s) of Information	Site History and Description	Constituents Detected in Soil and Groundwater and Maximum Concentrations	Depth to Groundwater (feet below ground surface)	Direction of Groundwater Flow	Distance (miles) and Direction from Site
G29	Chevron USA, Inc	4991 Carpinteria Ave	Santa Barbara County Fire Department	4/93 – 11/98	7/91: Accidental 20-gallon gasoline spill. 3/93: Groundwater Technology, Inc. contracted to investigate soil. Borings were drilled and samples taken. 8/95: Monitoring wells abandoned and closure granted. 7/96: "Adsorbed-phase hydrocarbons" identified in subsurface, site became active LUFT site. Buildings and equipment removed. 4/97: Geoprobe/Hydropunch indicated presence of hydrocarbons in soil and groundwater 11/98: Closure granted by Santa Barbara County and the RWQCB based on "compliance with RWQCB groundwater cleanup concentrations".	Soil (mg/kg) B 75 T 740 E 370 X 2,400 TPHg 23,000 Total Lead 5.4 EFH 200 Groundwater (µg/l) B 1,500 T 14 E 2,300 X 2,000 TPHg 26,000 MTBE 1,600 Total Lead 94	9 - 9.5	West	~ 1/2 mile Northeast
M50	Exxon/McDonald's	1115 Casitas Pass Road	Santa Barbara County Fire Department	1983-1/99	1983: Accidental release of unleaded fuel from UST. Tank repaired and returned to service 8/85: Assessment found free floating product in groundwater near fuel tanks. Three fuel and one waste oil UST removed and station demolished. 6/97: AET (Applied Environmental Technologies Inc.) performed field testing for soil and groundwater remediation according to approved FS/RAP. 8/98: Installation of soil and groundwater remediation systems (air sparging/venting and SVE). 1/99: Site remediation and groundwater monitoring started.	Soil (mg/kg) B 17 T 170 E 62 X 320 TPH 5,100 Total Lead 16.8 MtBE 14.9 TRPH 6,800	22 – 25	West	½ mile Northeast

TABLE 1

SELECTED DOCUMENTED REGULATORY AGENCY SITES

Carpinteria Sale Property
Carpinteria, California

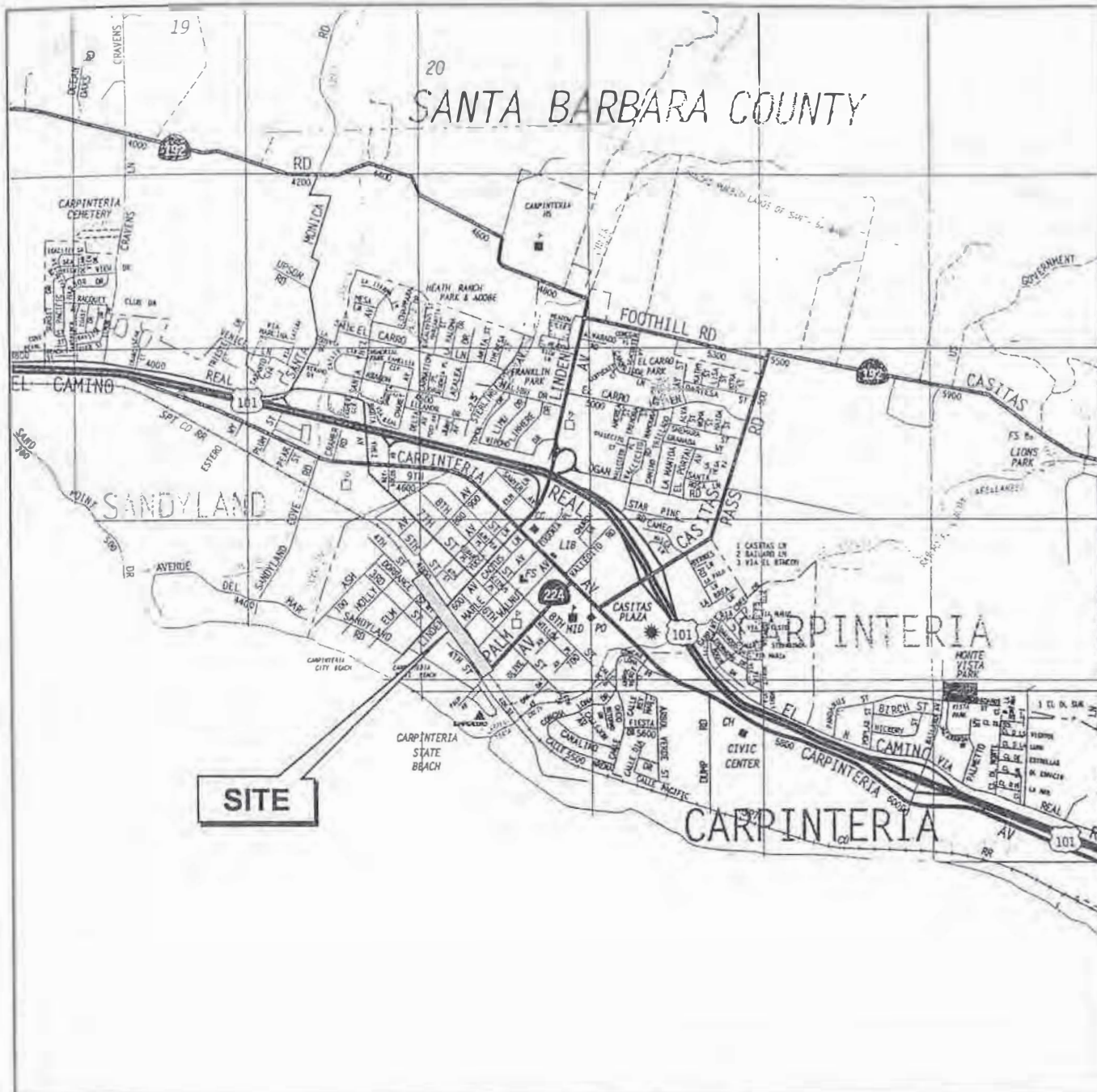
Page 3 of 3

Site Map ID ¹	Site Name	Site Address	Source(s) of Information	Year(s) of Information	Site History and Description	Constituents Detected in Soil and Groundwater and Maximum Concentrations	Depth to Groundwater (feet below ground surface)	Direction of Groundwater Flow	Distance (miles) and Direction from Site
M51	Arco Station #1980	1116 Casitas Pass Road	Santa Barbara County Fire Department	3/89 – 2/99	3/89: Applied to abandon four gasoline USTs. 6/89: Tanks removed and excavation of soil began after site assessment. 7/89: Quarterly groundwater monitoring program initiated. 9/90: Conducted vapor extraction testing 1/98: A "Determination of Low-Risk Groundwater Site" form was in file indicating that 1) extent of TPH and BTEX at site had been delineated but distribution of MtBE is not known; 2) no active remediation ongoing at this time; and 3) additional assessment was required. 2/99: Soil sampling performed in the vicinity of currently operating pump islands. 1999: Three 12,000-gallon fuel USTs with double containment on site.	<u>Soil (mg/kg) – 1/7/99</u> B 4.3 T 160 E 220 X 1,000 TPHg 13,000 MTBE 7.4 Lead 11 <u>Groundwater (µg/l)</u> TPHg 1,000 Total Lead 5 B 140 T 1 E 77 X 19 MTBE 4,300	20 – 22	West	½ mile Northeast

Notes:

- ¹ Map ID = Map identification numbers as referenced in EDR Report
 EDR = Environmental Data Resources, Inc.
 RWQCB = Water Quality Control Board, Central Coast Region
 UST = Underground storage tank
 TPH = Total petroleum hydrocarbons
 TPHms = Total petroleum hydrocarbons as mineral spirits
 TRPH = Total recoverable petroleum hydrocarbons
 TVPH = Total volatile petroleum hydrocarbons
 TPHg = Total petroleum hydrocarbons as gasoline
 TPHd = Total petroleum hydrocarbons as diesel
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes
 MtBE = methyl-tert-butyl-ether
 VOCs = volatile organic compounds
 mg/kg = Milligrams per kilogram
 µg/l = Micrograms per liter
 NR = not reported

FIGURES



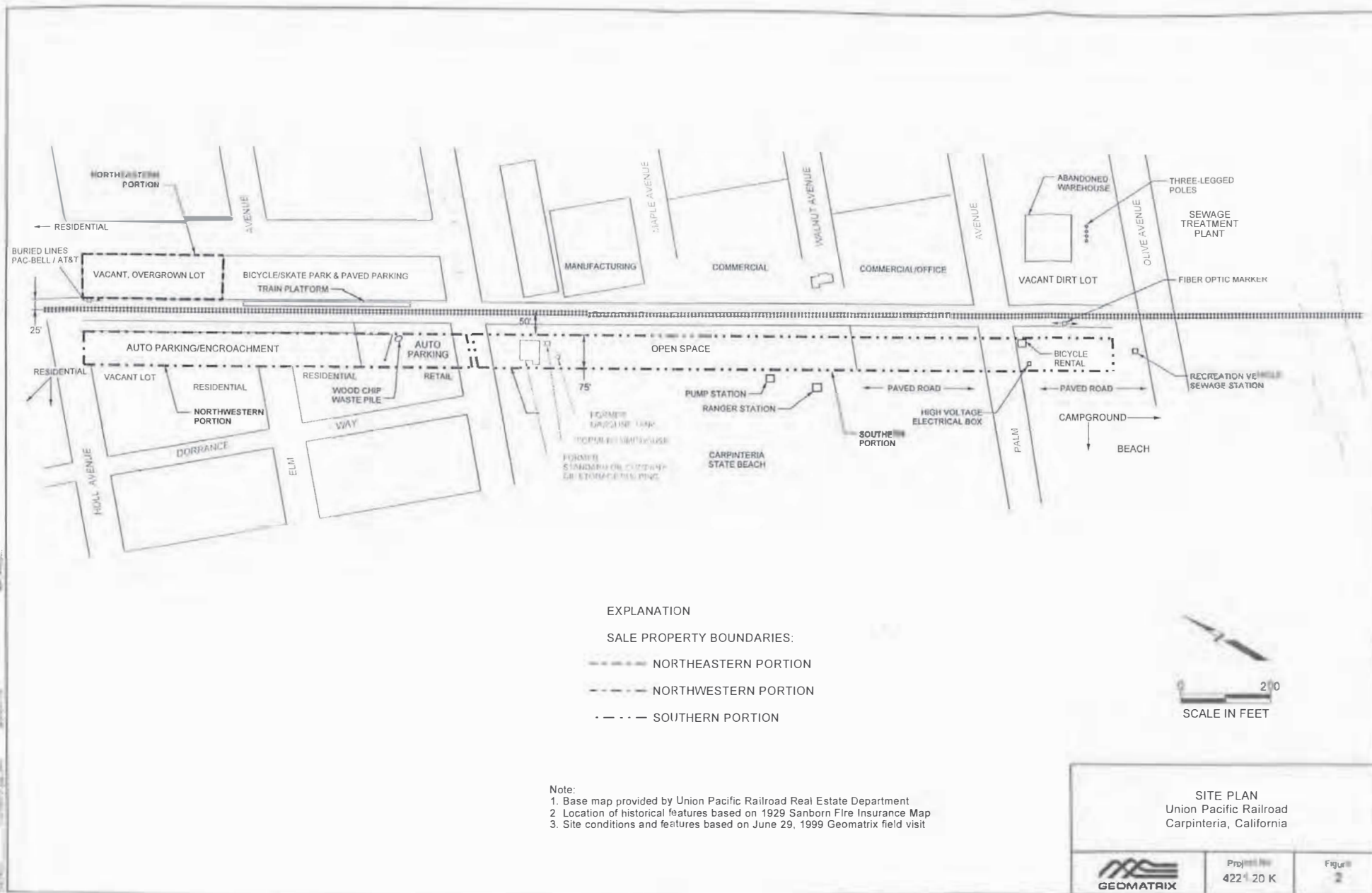
Base map from *The Thomas Bros Guide, Santa Barbara and San Luis Obispo Counties, 1997 Edition*
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SITE LOCATION MAP
 Union Pacific Railroad
 Carpinteria, California

Figure
1

Project No.
4221.20





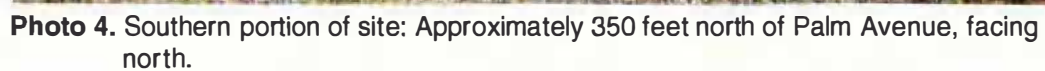
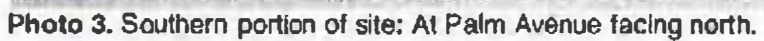
APPENDIXES



Photo 1. Southern portion of site: At Olive Avenue facing north (bicycle rental area).



Photo 2. Southern portion of site: Bicycle rental area near Palm Avenue (facing south).



Photos taken by Geomatrix on 6/29/99.



Photo 5. Southern portion of site: Approximately 400 feet south of Maple, facing east towards site.



Photo 6. Southern portion of site: At Linden Avenue, facing south towards site.



A photograph showing a wide, paved asphalt area in the foreground, likely a parking lot or a road. In the middle ground, there is a building with a long, covered entrance or walkway. To the right of the building, there is a playground area with various structures and equipment. The background is filled with lush green trees and vegetation. The sky is overcast and grey.

Photos taken by Geomatrix on 6/29/99.



Photo 9. At Holly Avenue facing south towards northwestern portion of site.



Photo 10. At Holly Avenue facing south towards northeastern portion of site.



Photo 11. At southern end of northeastern portion of site, facing north.

APPENDIX B

ENVIRONMENTAL DATA RESOURCES, INC. REPORT



Results of Limited Phase II Investigation

Carpinteria, California

Prepared for:

Union Pacific Railroad Company

1416 Dodge Street, Room 930

Omaha, Nebraska 68179

September 1999

Project No. 4221.20

Geomatrix Consultants

2101 Webster Street
12th Floor
Oakland, CA 94612
(510) 663-4100 • FAX (510) 663-4141



September 20, 1999
Project 4221.20

Mr. Norm Siler
Union Pacific Railroad
1416 Dodge Street, Room 930
Omaha, Nebraska 68179

Subject: Results of Limited Phase II Investigation
Carpinteria Sale Properties
Carpinteria, California

Dear Norm:

Enclosed is a copy of the subject report prepared by Geomatrix Consultants, Inc. This report summarizes the Results of Limited Phase II Investigation performed for the Union Pacific Railroad (UPRR) properties in Carpinteria, California.

We appreciate the opportunity to work with you on this project. Please call either of the undersigned if you have any questions or require additional information.

Sincerely yours,
GEOMATRIX CONSULTANTS, INC.

Penny M. Tse, P.E.
Project Engineer

Susan M. Gallardo, P.E.
Principal Engineer

PMT/SMG:ldu
I:\Doc_Safe\4000s\4221.20\PhaseIIcvltr.doc

Enclosure

cc: Don Caldwell, UPRR Real Estate (2 copies)

Results of Limited Phase II Investigation

Carpinteria, California

Prepared for:

Union Pacific Railroad Company

1416 Dodge Street, Room 930
Omaha, Nebraska 68179

September 1999

Project No. 4221.20

Geomatrix Consultants

TABLE OF CONTENTS

		Page
1.0	INTRODUCTION.....	1
2.0	SITE SETTING.....	1
3.0	GEOLOGIC AND HYDROGEOLOGIC SETTING.....	1
4.0	SUMMARY OF SITE HISTORY.....	2
5.0	PHASE II INVESTIGATION.....	2
5.1	SOIL BORING SAMPLING METHODS.....	2
5.2	GRAB GROUNDWATER SAMPLING METHODS.....	3
5.3	ANALYTICAL METHODS.....	4
6.0	FINDINGS.....	4
6.1	LITHOLOGY AND FIELD OBSERVATIONS.....	4
6.2	SOIL AND GROUNDWATER SAMPLE RESULTS.....	4
7.0	SUMMARY OF FINDINGS.....	5
8.0	REFERENCES.....	6

TABLES

Table 1	Sampling Plan
Table 2	Analytical Results

FIGURES

Figure 1	Site Location Map
Figure 2	Site Plan and Sampling Locations

APPENDIXES

Appendix A	Boring Logs
Appendix B	Chain-of-Custody Record and Analytical Laboratory Report

RESULTS OF LIMITED PHASE II INVESTIGATION

Union Pacific Railroad Sale Property
Carpinteria, California

1.0 INTRODUCTION

This report presents the results of a limited Phase II Investigation at the property located in Carpinteria, California (the site, Figure 1). This work was performed on behalf of Union Pacific Railroad Company (UPRR) by Geomatrix Consultants, Inc. (Geomatrix) in accordance with our July 29, 1999 Scope of Services and Cost Estimate, and Service Order No. 2796 (Contract Audit No. 701140).

2.0 SITE SETTING

The site consists of approximately 4.7 acres located in Carpinteria, California. The site parallels the UPRR main line tracks and extends from Holly Avenue on the northwest to approximately 200 feet south of Palm Avenue on the southeast (Figure 1). For purposes of clarity, we have divided the site into three areas. The northeastern portion of the site refers to approximately 0.7 acres that is east of the main line railroad tracks. The northwestern portion of the site is approximately 1.5 acres and is located on the west side of the tracks between Holly and Linden Avenues. The remaining southern portion of the site (approximately 2.5 acres) is west of the main line railroad tracks and south of Linden Avenue. The three areas are shown on Figure 2. General land use of the adjacent properties is commercial, residential and recreational. It is our understanding that Union Pacific Railroad plans to sell the southern portion of the site to the State of California.

3.0 GEOLOGIC AND HYDROGEOLOGIC SETTING

The site is located within the Carpinteria Basin, an east-west trending alluvial basin bound by the Santa Ynez mountains on the north and the Pacific Ocean on the south. The Carpinteria Basin contains unconsolidated Recent and Pleistocene floodplain deposits of silt, sand, gravel and localized clay layers. Based on the U.S. Geological Survey topographic map (Carpinteria Quadrangle), the elevation of the site is approximately 20 feet above mean sea level.

Depth to groundwater in the vicinity of the site ranges from approximately 7 to 25 feet below ground surface (bgs). Groundwater flow direction in this area is toward the west with an average horizontal hydraulic gradient of 0.05 foot per foot (Secor, 1996; Fluor Daniel, 1997).

4.0 SUMMARY OF SITE HISTORY

This section presents an overview of the history of the site compiled from information obtained by Geomatrix during a previous Phase I investigation conducted in June and July 1999 (Geomatrix, 1999). This investigation found that the northeastern portion of the site might have been industrial, but that no specific information indicated that this was an active area. Parts of the northwestern and southern portions of the site were leased to a nursery, but it is unlikely that any significant environmental impact would have occurred from this operation. Standard Oil Company formerly operated in the southern portion of the site between Linden Avenue and Palm Avenue. The Standard Oil facility was adjacent to the Carpinteria State Beach and included an oil storage building, platform, pump house, and a gasoline tank. This facility could have affected soil or groundwater with petroleum hydrocarbons and related constituents.

Currently the site is mostly vacant consisting of open vegetated fields, unpaved lots and a grass lawn maintained by Carpinteria State Beach. A bicycle rental operation is located on the southern portion of the site. Automobile encroachment by adjacent residences and a wood chip waste pile is located on the northwestern portion of the site.

5.0 PHASE II INVESTIGATION

As described in our July 29, 1999 Scope of Services, the objective of the Phase II investigation was to evaluate whether past on-site activities associated with the former Standard Oil facility may have affected soil and groundwater quality beneath the southern portion of the site. This section presents the field and analytical methods used to conduct the investigation.

5.1 SOIL BORING SAMPLING METHODS

Prior to initiating fieldwork, Geomatrix contacted the Santa Barbara County Fire Department (SBCFD) in Buellton to determine whether drilling permits were necessary to perform the described scope of work. Based on telephone conversations with SBCFD no permits were required. Geomatrix prepared a site-specific Health and Safety Plan and notified Underground Service Alert of the planned drilling activities. Cruz Brothers, an independent underground utility locator of Santa Cruz, California, was contracted to clear the boring locations and to survey the area for the possible presence of an underground storage tank (UST) associated with the operations of the former Standard Oil facility.

Gregg Drilling and Testing, a licensed drilling contractor of Martinez, California, under the supervision by Geomatrix staff, drilled three soil borings on August 16, 1999. The borings (GMX-1 through GMX-3) were advanced using direct push technology to depths ranging from 16 to 20 feet bgs. The boring locations were in the approximate area of the former Standard Oil facility and are shown on Figure 2. The soil borings were continuously sampled and lithologic logs were prepared by Geomatrix staff. The lithologic descriptions of the soil were created in accordance with the Unified Soil Classification System as described in the American Society of Testing and Materials (ASTM) Standard D248890 (ASTM, 1990). Soil samples were collected for chemical analysis at approximately 2-foot intervals until first water was encountered (approximately 12 feet bgs). Lithologic information is included on the boring logs in Appendix A.

Soil samples were collected in butyl-acetate liners. Immediately after sample collection, the ends of the samples were sealed with Teflon sheeting, plastic end-caps, and duct tape. The soil samples were then labeled, placed in an ice-cooled chest, and delivered under Geomatrix chain-of-custody procedures to Entech Labs (Entech), of Sunnyvale, California (a state-certified analytical laboratory).

5.2 GRAB GROUNDWATER SAMPLING METHODS

Grab groundwater samples were collected by installing a ¾-inch diameter temporary polyvinyl chloride (PVC) casing consisting of approximately 10 feet of blank PVC and 5 to 10 feet of well screen (0.01 inch slot) attached to the blank PVC. The PVC was installed inside the drive casing, which was withdrawn thereby exposing the screen to water-yielding sediments. Groundwater samples were collected using dedicated disposable bailers and transferred into laboratory-supplied and appropriately preserved sample containers. The samples were labeled, placed in an ice-cooled chest, and transferred under chain-of-custody procedures to Entech.

After all the samples were collected, the borings were backfilled with bentonite chips and hydrated. Soil cuttings from the borings were contained in a 5-gallon labeled bucket and stored on site. The wash water generated during sampling activities was contained in a 55-gallon labeled drum and stored on site.

5.3 ANALYTICAL METHODS

Soil samples were analyzed for polynuclear aromatic hydrocarbons (PNAs) using United States Environmental Protection Agency (EPA) Method 8270 SIMS, total petroleum hydrocarbons quantified as gasoline (TPHg), as diesel (TPHd), and as motor oil (TPHm) using EPA Method 8015M.

Groundwater samples were analyzed for volatile organic compounds (VOCs) using EPA Method 8260; and TPHg, TPHd, and TPHm using EPA Method 8015M. A silica gel clean up procedure was performed prior to analysis of all TPHd and TPHm samples in order to remove polar biogenic material that could cause positive interference. Table 1 presents the sampling plan used for the investigation.

6.0 FINDINGS

6.1 LITHOLOGY AND FIELD OBSERVATIONS

The survey performed by Cruz Brothers did not detect the presence of an underground storage tank. However, some sheet metal and concrete debris was found buried 1-foot bgs in the area of the former gasoline tank identified in the Phase I investigation. Soil boring GMX-3 was located adjacent to the debris area.

The soil consisted primarily of silt and sand. Lithologic information is included on the boring logs in Appendix A. Groundwater was encountered during drilling at a depth of approximately 12 feet bgs.

6.2 SOIL AND GROUNDWATER SAMPLE RESULTS

PNAs, TPHg, TPHd, TPHm, and VOCs were not detected in any of the soil and groundwater samples analyzed. Table 2 summarizes the samples that were tested, the analytical methods used, and the respective reporting limits for each analysis. The laboratory analytical report and chain-of-custody records for the soil and groundwater samples are included in Appendix B.

7.0 SUMMARY OF FINDINGS

The results of the limited Phase II investigation are summarized as follows:

- Groundwater was encountered at a depth of approximately 12 feet bgs.
- An underground storage tank was not found in the area of the former Standard Oil facility.
- All analytical results for soil and groundwater samples were below laboratory reporting limits.

Based on the results from the Phase II investigation, it appears that no significant environmental impact has occurred at the site from the former presence of a Standard Oil facility on site.

8.0 REFERENCES

Flour Daniel GTI, 1997, Additional Site Investigation report for former Chevron Site No. 9-0796, 4991 Carpinteria Avenue, Carpinteria, California, June 15.

Geomatrix Consultants, Inc., 1999, Preliminary Site Assessment, Carpinteria Sale Property, Carpinteria, California, July 20, 1999.

Secor International, Inc., 1996, Additional Assessment Workplan, ARCO Station 1980, 1116 Casitas Pass Road, Carpinteria, California, June 17.

TABLE 1

SAMPLING PLAN
Limited Phase II Investigation
Carpinteria, California

Boring Location	Depth of Soil Sample Analyzed				Groundwater		
		TPHd/m	TPHg	PNAs	TPHd/m	TPHg	VOCs
GMX-1	2	X		X	X	X	X
	6	X	X	X			
	to awt ¹	hold					
GMX-2	2	X		X	X	X	X
	6	X	X	X			
	to awt						
GMX-3	2	X		X	X	X	X
	6	X	X	X			
	to awt	hold					

Notes:

1. awt = Sample collected above the groundwater table; encountered at approximately 12 feet below ground surface.
2. hold = Sample collected and placed on hold pending results of initial analysis.

Abbreviations:

TPHg = total petroleum hydrocarbons quantified as gasoline analyzed by EPA Method 8015; TPH/dm = total petroleum hydrocarbons quantified as diesel and motor oil analyzed by EPA Method 8015 following silica gel cleanup procedures;
VOCs = volatile organic compounds analyzed by EPA Method 8260; PNAs = polynuclear aromatic compounds analyzed by EPA Method 8270 SIM.

TABLE 2

ANALYTICAL RESULTS
 Limited Phase II Investigation
 Carpinteria, California

Boring Location	Depth of Soil Sample Analyzed (feet)	Soil (mg/kg)				Groundwater (ug/l)			
		TPHd	TPHm	TPHg	PNAs	TPHd	TPHm	TPHg	VOCs
GMX-1	2	<1.0	<13		<.01	<50	<250	<50	All ND ¹
	6	<1.0	<13	<1.0	<.01				
GMX-2	2	<1.0	<13		<.01	<50	<250	<50	All ND
	6	<1.0	<13	<1.0	<.01				
GMX-3	2	<1.0	<13		<.01	<50	<250	<50	All ND
	6	<1.0	<13	<1.0	<.01				

Notes:

1. ND= not detected above laboratory detection limit; detection limits ranged for VOCs from 5 to 100 ug/l.

Abbreviations:

TPHg = total petroleum hydrocarbons quantified as gasoline analyzed by EPA Method 8015; TPHd/m = total petroleum hydrocarbons quantified as diesel and motor oil analyzed by EPA Method 8015 following silica gel cleanup procedures; VOCs = volatile organic compounds analyzed by EPA Method 8260; PNAs = polynuclear aromatic compounds analyzed by EPA Method 8270 SIM.



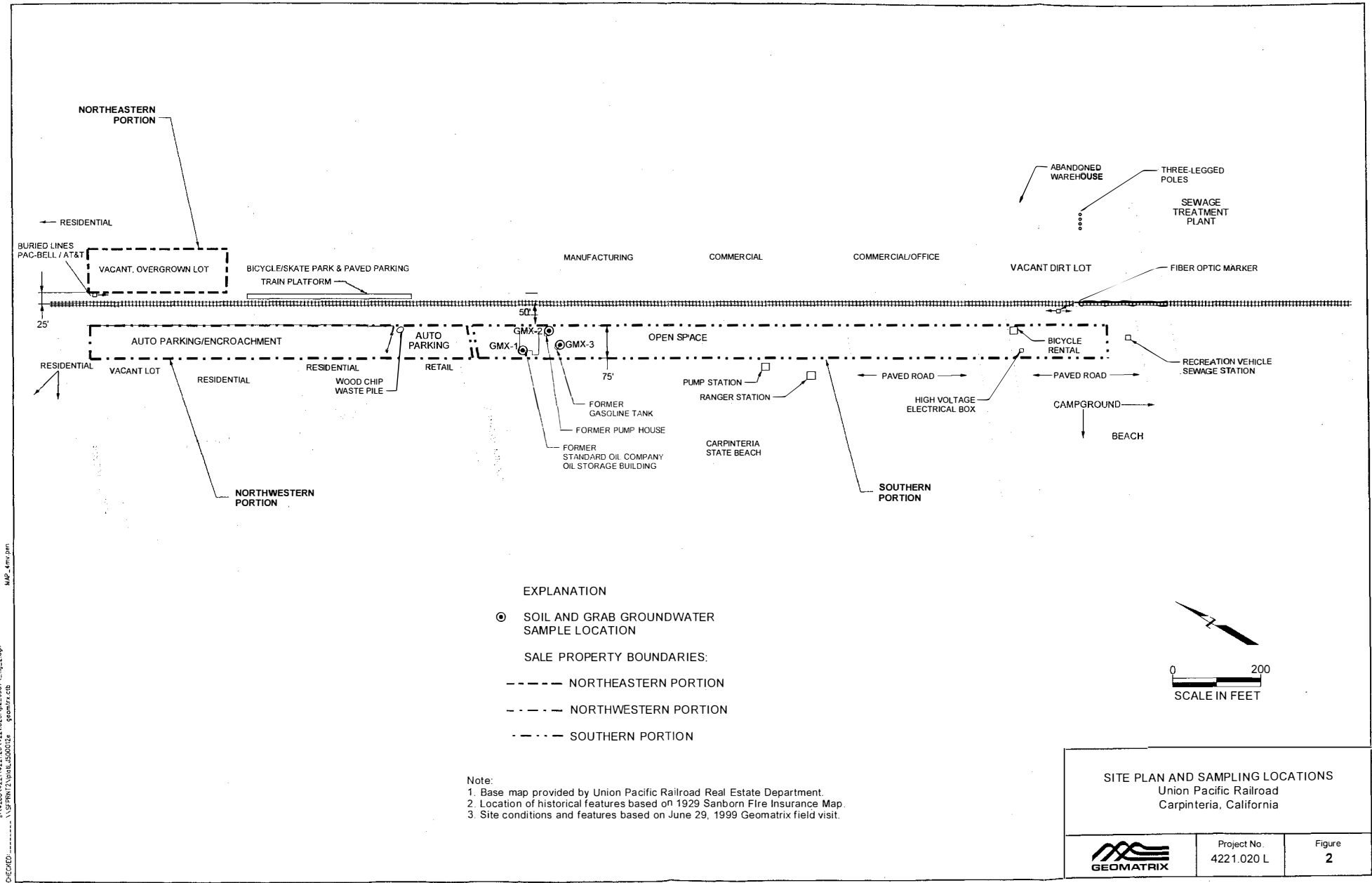
Base map from *The Thomas Bros. Guide, Santa Barbara and San Luis Obispo Counties*, 1997 Edition.
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SITE LOCATION MAP
 Union Pacific Railroad
 Carpinteria, California

Figure
 1

Project No.
 4221.20



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PROJECT: UPPR-Carpinteria				Log of Boring No. GMX-2			
BORING LOCATION: By former pump house				ELEVATION AND DATUM: Ground Surface			
DRILLING CONTRACTOR: Gregg Drilling and Testing, Inc.				DATE STARTED: 8/16/99		DATE FINISHED: 8/16/99	
DRILLING METHOD: Direct Push				TOTAL DEPTH (ft.): 20.0		MEASURING POINT: Ground Surface	
DRILLING EQUIPMENT: S27 Power Probe 9600+				DEPTH TO WATER		FIRST 14	COMPL. NA
SAMPLING METHOD: Direct Push				LOGGED BY: Chris Posch			
HAMMER WEIGHT: NA		DROP: NA		RESPONSIBLE PROFESSIONAL: Gary Foote			REG. NO. RG 5044

DEPTH (feet)	SAMPLES			PID READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample Blows/ Foot			NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation: Ground Surface	
1	GMX-2-2			0	SILT with SAND (ML): Brown (10 YR 4/3), Moist, 85% fines, 15% fine sand, low plasticity, soft, roots present.	OVM= Thermo Environmental Instruments 580 PID calibrated with 100 ppm isobutylene standard
2						
3	GMX-2-4			0		
4						
5	GMX-2-6				SANDY SILT (ML): brown (10 YR 4/3), Moist, 55% fines, 45% fine to coarse sand, low plasticity, soft.	
6						
7	GMX-2-8					
8						
9	GMX-2-10					
10						
11	GMX-2-12				SILT with SAND (ML): brown (10 YR 4/3), Wet, 75% fines, 25% fine to coarse sand, medium plasticity, soft.	
12					No Soil Logging: from 12' to 20' pushed expendable tip without obtaining soil core	
13						
14						
15						

APPENDIX A

BORING LOGS

PROJECT: UPPR-Carpinteria		Log of Boring No. GMX-1	
BORING LOCATION: By former Storage Building		ELEVATION AND DATUM: Ground Surface	
DRILLING CONTRACTOR: Gregg Drilling and Testing, Inc.		DATE STARTED: 8/16/99	DATE FINISHED: 8/16/99
DRILLING METHOD: Direct Push		TOTAL DEPTH (ft.): 16.0	MEASURING POINT: Ground Surface
DRILLING EQUIPMENT: S27 Power Probe 9600+		DEPTH TO WATER	FIRST 12 COMPL. NA
SAMPLING METHOD: Direct Push		LOGGED BY: Chris Posch	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: Gary Foote	REG. NO. RG 5044

DEPTH (feet)	SAMPLES			PID READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample	Blows/ Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation: Ground Surface	
1	GMX-1-2			0	SILT with SAND (ML): Brown (10 YR 4/3), Moist, 85% fines, 15% fine sand, low plasticity, soft.	OVM= Thermo Environmental Instruments 580 PID calibrated with 100 ppm isobutylene standard
2						
3	GMX-1-4					
4						
5	GMX-1-6					
6						
7	GMX-1-8			0	SILTY SAND (SM): brown (10 YR 4/3), Moist, 85% fine to coarse sand, 15% low plasticity fines.	
8					SANDY SILT (ML): brown (10 YR 4/3), Moist, 55% fines, 45% fine to coarse sand, low plasticity, soft.	
9	GMX-1-10				SILTY SAND (SM): brown (10 YR 4/3), Moist, 55% fine to medium sand, 45% low plasticity fines.	
10						
11	GMX-1-12					
12						
13	GMX-1-14			0		
14						
15						

OAKBOREV (REV. 7/99)



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Project No. 4221.020

Page 1 of 2

DEPTH (feet)	SAMPLES			PID READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
16	GMX-1-16				LEAN CLAY (CL): brown (10 YR 4/3), Wet, 80% fines, 20% fine to medium sand, medium plasticity, soft to firm.	Borehole destroyed using bentonite chips placed from total depth to ground surface and hydrated.
17					Bottom of boring at 16 feet	
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						

DEPTH (feet)	SAMPLES			PID READING (ppm)	DESCRIPTION NAME (USCS): color, moist. % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
16						
17						
18						
19						
20					Bottom of boring at 20 feet	Borehole destroyed using bentonite chips placed from total depth to ground surface and hydrated.
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						

PROJECT: UPPR-Carpinteria					Log of Boring No. GMX-3				
BORING LOCATION: By former gasoline tank					ELEVATION AND DATUM: Ground Surface				
DRILLING CONTRACTOR: Gregg Drilling and Testing, Inc.					DATE STARTED: 8/16/99		DATE FINISHED: 8/16/99		
DRILLING METHOD: Direct Push					TOTAL DEPTH (ft.): 16.0		MEASURING POINT: Ground Surface		
DRILLING EQUIPMENT: S27 Power Probe 9600+					DEPTH TO WATER		FIRST 14		COMPL. NA
SAMPLING METHOD: Direct Push					LOGGED BY: Chris Posch				
HAMMER WEIGHT: NA			DROP: NA		RESPONSIBLE PROFESSIONAL: Gary Foote			REG. NO. RG 5044	

DEPTH (feet)	SAMPLES			PID READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample Blows/ Foot	Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
				0	Surface Elevation: Ground Surface	
1	GMX-3-2				SILT with SAND (ML): Brown (10 YR 4/3), Moist, 85% fines, 15% fine to medium sand, low to medium plasticity, soft, metal pieces and rust from 0 to 2 feet.	OVM= Thermo Environmental Instruments 580 PID calibrated with 100 ppm isobutylene standard
2						
3	GMX-3-4					
4				0		
5	GMX-3-6					
6						
7	GMX-3-8					
8						
9	GMX-3-10					
10						
11	GMX-3-12					
12						
13	GMX-3-14					
14						
15					Firm SANDY SILT (ML): brown (10 YR 4/3), Moist, 55% fines, 45% fine to coarse sand, low plasticity, soft. LEAN CLAY (CL): brown (10 YR 4/3), Wet, 80% fines, 20% fine to medium sand, medium plasticity, firm.	

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Project No. 4221.020

OAKBOREX (REV. 7/99)
Page 1 of 2

Log of Boring No. GMX-3 (cont'd)

DEPTH (feet)	SAMPLES			PID READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
16	GMX-3-16				Bottom of boring at 16 feet	Borehole destroyed using bentonite chips placed from total depth to ground surface and hydrated.
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						



APPENDIX B

**CHAIN-OF-CUSTODY RECORD AND
ANALYTICAL LABORATORY REPORT**

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E
Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography
Matrix Spike and Matrix Spike Duplicate

QC Batch #: GBG1990818

Matrix: Water

Units: µg/Liter

Date Analyzed: 08/18/99

Quality Control Sample: 15857-001

PARAMETER	Method #	MB	SA	SR	SP	SP	SPD	SPD	RPD	QC LIMITS	
		µg/Liter	µg/Liter	g/Liter	µg/Liter	% R	µg/Liter	%R		RPD	%R
Benzene	8020	<0.50	3.6	ND	3.2	89	3.1	86	3.2	25	69-118
Toluene	8020	<0.50	25.0	ND	25	102	25	98	3.6	25	79-122
Ethyl Benzene	8020	<0.50	5.0	ND	5.1	102	4.9	98	4.0	25	77-114
Xylenes	8020	<0.50	25.0	ND	28	111	27	106	4.1	25	79-129
Gasoline	8015	<50.0	500	ND	462	92	444	89	3.8	25	75-125
aaa-TFT(S.S.)-PID	8020			90%	99%		99%				65-135
aaa-TFT(S.S.)-FID	8015			103%	106%		107%				65-135

Calculated Recoveies Outside of Control Limits:

Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank

SA: Spike Added

SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result

SP (%R): Spike % Recovery

SPD: Spike Duplicate Result

SPD (%R): Spike % Recovery

NC: Not Calculated

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography

Laboratory Control Sample

QC Batch #: GBG1990818

Matrix: Water

Units: µg/Liter

Date Analyzed: 08/18/99

Quality Control Sample: Blank Spike

PARAMETER	Method #	MB µg/Liter	SA µg/Liter	SR µg/Liter	SP µg/Liter	SP % R	SPD µg/Liter	SPD % R	RPD	QC LIMITS	
										RPD	%R
Benzene	8020	<0.50	3.6	ND	3.1	86	3.3	92	6.2	25	69-118
Toluene	8020	<0.50	25.0	ND	25	101	26	102	1.2	25	82-122
Ethyl Benzene	8020	<0.50	5.0	ND	5.0	100	5.1	102	2.0	25	77-114
Xylenes	8020	<0.50	25.0	ND	27	109	28	112	2.2	25	85-125
Gasoline	8015	<50.0	500	ND	476	95	462	92	3.0	25	75-125
aaa-TFT(S.S.)-PID	8020			89%	98%		96%				65-135
aaa-TFT(S.S.)-FID	8015			102%	105%		106%				65-135

Definition of Terms:

- na: Not Analyzed in QC batch
- MB: Method Blank
- SA: Spike Added
- SR: Sample Result
- RPD(%): Duplicate Analysis - Relative Percent Difference
- SP: Spike Result
- SP (%R): Spike % Recovery
- SPD: Spike Duplicate Result
- SPD (%R): Spike % Recovery
- nc: Not Calculated

CHAIN-OF-CUSTODY RECORD				Nº 12202										Date: 8-16-99				Page 1 of 1				
Project No.: 1221.020				ANALYSES														REMARKS				
Samplers (Signatures): <i>Chris Posch</i>				EPA Method 8010	EPA Method 8020	EPA Method 8020 (BTEX only)	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH d/m	8260	HOLD					Cooled	Soil (S), Water (W), or Vapor (V)	Acidified	Number of containers	Additional Comments
Date	Time	Sample Number																				
8-16	1230	GMAX-1							X		X	X						Y	W	1/2	3/2	<i>Union Pacific Sub - Bill directly!</i> <i>TPH d/m by EPA 8015 following Silica Gel Cleanup</i> <i>TPH g by 8015</i>
	1300	GMAX-2							X		X	X						Y	W	1/2	3/2	
	1530	GMAX-3							X		X	X						Y	W	1/2	3/1	
✓	1600	Dup											X					Y	W	Y	3	
8-14	725	Trip Blank							X			X						Y	W	Y	2	
<i>(Diagonal line across empty rows)</i>																						
				Turnaround time: <i>Standard</i>										Results to: <i>Chris Posch</i>				Total No. of containers: 19				
Relinquished by (signature): <i>Chris Posch</i>				Date: 8/17		Relinquished by (signature):				Date:		Relinquished by (signature):				Date:		Method of Shipment: <i>Express</i>				
Printed Name: CHRIS Posch				Time: 1500		Printed Name:				Time:		Printed Name:				Time:		Laboratory Comments and Log No.: <i>5 Day TAT Firm</i>				
Company: Geomatrix						Company:						Company:										
Received by (signature): <i>Jennifer Durkin</i>				Date: 8/17		Received by (signature):				Date:		Received by (signature):				Date:		 Geomatrix Consultants 100 Pine Street, 10th Floor San Francisco, California 94111 415 434 9400				
Printed Name: Jennifer Durkin				Time: 15:00		Printed Name:				Time:		Printed Name:				Time:						
Company: Entech						Company:						Company:										

Certified Analytical Report Volatile Organic Compounds by EPA Method 8260B

Client: Geomatrix Consultants
Sample Matrix: Water
Sample Date/Time: 8/24/99
Lab #: Method Blank
Client ID:

Date Reported: 8/24/99
Date Received: 8/24/99
Date Analyzed: 8/24/99
Dilution Factor: 1

Compound	Value	PQL	DLR	Compound	Value	PQL	DLR
1,1-Dichloropropene	ND	5	5	Tetrachloroethene	ND	5	5
cis-1,3-Dichloropropene	ND	5	5	Toluene	ND	5	5
trans-1,3-Dichloropropene	ND	5	5	1,2,3-Trichlorobenzene	ND	5	5
Diisopropyl Ether	ND	5	5	1,2,4-Trichlorobenzene	ND	5	5
Ethyl Methacrylate	ND	5	5	1,2,3-Trichloropropane	ND	5	5
Ethylbenzene	ND	5	5	1,1,1-Trichloroethane	ND	5	5
Hexachlorobutadiene	ND	5	5	1,1,2-Trichloroethane	ND	5	5
2-Hexanone	ND	20	20	Trichloroethene	ND	5	5
Iodomethane	ND	5	5	Trichlorofluoromethane	ND	5	5
Isopropylbenzene	ND	5	5	1,2,4-Trimethylbenzene	ND	5	5
p-Isopropyltoluene	ND	5	5	1,3,5-Trimethylbenzene	ND	5	5
Methacrylonitrile	ND	5	5	Xylenes (total)	ND	5	5
Methyl Methacrylate	ND	5	5	Vinyl Chloride	ND	5	5
4-Methyl-2-Pentanone (MIBK)	ND	20	20				
Methyl-tert-butyl Ether	ND	5	5				
Methylene Chloride	ND	5	5				
Naphthalene	ND	5	5				
Pentachloroethane	ND	5	5				
2-Picoline	ND	5	5				
n-Propylbenzene	ND	5	5				
Styrene	ND	5	5				
1,1,1,2-Tetrachloroethane	ND	5	5				
1,1,2,2-Tetrachloroethane	ND	5	5				

Surrogate

Dibromofluoromethane
Toluene-d8
4-Bromofluorobenzene

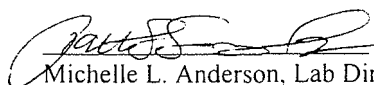
Recovery (%)

86
97
86

1. Results are reported in ug/Liter (ppb)

2. DLR= DF x PQL

3. Analysis performed by Entech Analytical Labs, Inc.
(CAELAP #I-2346)



Michelle L. Anderson, Lab Director

ND: None Detected at or above DLR
DLR: Detection Reporting Limit

PQL: Practical Quantitation Limit
DF: Dilution Factor

QUALITY CONTROL RESULTS SUMMARY

Volatile Organic Compounds
Laboratory Control SampleQC Batch #: WGCMS990824
Matrix: Water
Units: µg/LDate analyzed: 08/24/99
Spiked Sample: Blank Spike

PARAMETER	Method #	SA µg/L	SR µg/L	SP µg/L	SP %R	SPD µg/L	SPD %R	RPD	RPD	QC LIMITS %R
1,1-Dichloroethene	8240/8260	25	ND	31	122	26	104	16.6	25	50-150
Methyl-tert-butyl ether	8240/8260	25	ND	30	119	30	121	1.7	25	50-150
Benzene	8240/8260	25	ND	29	116	26	105	9.8	25	50-150
Trichloroethene	8240/8260	25	ND	32	128	29	117	9.1	25	50-150
Toluene	8240/8260	25	ND	29	114	26	106	8.0	25	50-150
Chlorobenzene	8240/8260	25	ND	29	117	27	107	8.9	25	50-150
Surrogates										
Dibromofluoromethane	8240/8260		86%	99%		96%				65-135
MTBE-d3	8240/8260		87%	119%		103%				65-135
Toluene -d8	8240/8260		97%	97%		99%				65-135
4-Bromofluorobenzene	8240/8260		86%	96%		99%				65-135

Definition of Terms:

na: Not Analyzed in QC batch

SA: Spike Added

SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result

SP (%R): Spike % Recovery

SPD: Spike Duplicate Result

SPD (%R): Spike Duplicate % Recovery

Client: Entech Analytical Labs, Inc.
 Attn: Michelle Anderson
 Client's Project: Geomatrix Consultants
 Date Received: 08/18/99
 Extraction Method: 3550B
 Matrix: Soil
 Units: ug/kg

EPA Method 8270C SIM (PAH's only)

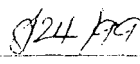
Lab No.:	Method Blank	37759-001			
Client Sample I.D.:	--	15847-001			
Date Sampled:	--	08/16/99			
QC Batch #:	S998270S234	S998270S234			
Date Extracted:	08/19/99	08/19/99			
Date Analyzed:	08/19/99	08/19/99			
Analyst Initials:	HL	HL			
Dilution Factor:	1	1			

ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results
Naphthalene	10	10	ND	10	ND								
Acenaphthylene	10	10	ND	10	ND								
Acenaphthene	10	10	ND	10	ND								
Fluorene	10	10	ND	10	ND								
Phenanthrene	10	10	ND	10	ND								
Anthracene	10	10	ND	10	ND								
Fluoranthene	10	10	ND	10	ND								
Pvrene	10	10	ND	10	ND								
Benzo(a)anthracene	10	10	ND	10	ND								
Chrysene	10	10	ND	10	ND								
Benzo(b)fluoranthene	10	10	ND	10	ND								
Benzo(k)fluoranthene	10	10	ND	10	ND								
Benzo(a)pyrene	10	10	ND	10	ND								
Indeno(1,2,3-cd)pyrene	10	10	ND	10	ND								
Dibenzo(a,h)anthracene	10	10	ND	10	ND								
Benzo(ghi)perylene	10	10	ND	10	ND								

Surrogate Recovery	%Rec.	Limits	%Rec.	Limits									
1,2-Dichlorobenzene	81	17-97	93	17-97									
Nitrobenzene-d5	57	20-100	76	20-100									
2-Fluorobiphenyl	82	21-114	110	21-114									
Terphenyl-d14	118	17-130	140*	17-130									

MDL = Method Detection Limit ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor NA = Not Analyzed
 * = High Surrogate recovery due to matrix interference

Approved/Reviewed By: 
 Sylvia Chan
 Semi Volatiles Group Leader

Date: 

The cover letter is an integral part of this analytical report.

Client: Entech Analytical Labs, Inc.
 Attn: Michelle Anderson
 Client's Project: Geomatrix Consultants
 Date Received: 08/18/99
 Extraction Method: 3550B
 Matrix: Soil
 Units: ug/kg

EPA Method 8270C SIM (PAH's only)

Lab No.:		37759-002											
Client Sample I.D.:		15847-002											
Date Sampled:		08/16/99											
QC Batch #:		S998270S234											
Date Extracted:		08/19/99											
Date Analyzed:		08/19/99											
Analyst Initials:		HL											
Dilution Factor:		1											
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results
Naphthalene	10	10	ND										
Acenaphthylene	10	10	ND										
Acenaphthene	10	10	ND										
Fluorene	10	10	ND										
Phenanthrene	10	10	ND										
Anthracene	10	10	ND										
Fluoranthene	10	10	ND										
Pvrene	10	10	ND										
Benzo(a)anthracene	10	10	ND										
Chrysene	10	10	ND										
Benzo(b)fluoranthene	10	10	ND										
Benzo(k)fluoranthene	10	10	ND										
Benzo(a)pvrene	10	10	ND										
Indeno(1,2,3-cd)pyrene	10	10	ND										
Dibenzo(a,h)anthracene	10	10	ND										
Benzo(ghi)perylene	10	10	ND										
Surrogate Recovery	%Rec.	Limits											
1,2-Dichlorobenzene	89	17-97											
Nitrobenzene-d5	50	20-100											
2-Fluorobiphenyl	90	21-114											
Terphenyl-d14	112	17-130											

MDL = Method Detection Limit ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor NA = Not Analyzed

Approved/Reviewed By: Sylvia Chan
 Sylvia Chan
 Semi Volatiles Group Leader

Date: 8/21/99

The cover letter is an integral part of this analytical report.



Advanced Technology
 Laboratories

1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Client: Entech Analytical Labs, Inc.
 Attn: Michelle Anderson
 Client's Project: Geomatrix Consultants
 Date Received: 08/18/99
 Extraction Method: 3550B
 Matrix: Soil
 Units: ug/kg

EPA Method 8270C SIM (PAH's only)

Lab No.:		37759-003													
Client Sample I.D.:		15847-003													
Date Sampled:		08/16/99													
QC Batch #:		S998270S234													
Date Extracted:		08/19/99													
Date Analyzed:		08/19/99													
Analyst Initials:		HL													
Dilution Factor:		1													
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results
Naphthalene	10	10	ND												
Acenaphthylene	10	10	ND												
Acenaphthene	10	10	ND												
Fluorene	10	10	ND												
Phenanthrene	10	10	ND												
Anthracene	10	10	ND												
Fluoranthene	10	10	ND												
Pvrene	10	10	ND												
Benzo(a)anthracene	10	10	ND												
Chrvsene	10	10	ND												
Benzo(b)fluoranthene	10	10	ND												
Benzo(k)fluoranthene	10	10	ND												
Benzo(a)pvrene	10	10	ND												
Indeno(1,2,3-cd)pvrene	10	10	ND												
Dibenzo(a,h)anthracene	10	10	ND												
Benzo(ghi)perylene	10	10	ND												

Surrogate Recovery	%Rec.	Limits													
1,2-Dichlorobenzene	85	17-97													
Nitrobenzene-d5	85	20-100													
2-Fluorobiphenyl	91	21-114													
Terphenyl-d14	115	17-130													

MDL = Method Detection Limit ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor NA = Not Analyzed

Approved/Reviewed By: *SC*
 Sylvia Chan
 Semi Volatiles Group Leader

Date: 8/24/99

The cover letter is an integral part of this analytical report.



Advanced Technology
 Laboratories

1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Client: Entech Analytical Labs, Inc.
 Attn: Michelle Anderson
 Client's Project: Geomatrix Consultants
 Date Received: 08/18/99
 Extraction Method: 3550B
 Matrix: Soil
 Units: ug/kg

EPA Method 8270C SIM (PAH's only)

Lab No.:	37759-004												
Client Sample I.D.:	15847-004												
Date Sampled:	08/16/99												
QC Batch #:	S998270S234												
Date Extracted:	08/19/99												
Date Analyzed:	08/19/99												
Analyst Initials:	HL												
Dilution Factor:	1												
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results
Naphthalene	10	10	ND										
Acenaphthylene	10	10	ND										
Acenaphthene	10	10	ND										
Fluorene	10	10	ND										
Phenanthrene	10	10	ND										
Anthracene	10	10	ND										
Fluoranthene	10	10	ND										
Pyrene	10	10	ND										
Benzo(a)anthracene	10	10	ND										
Chrysene	10	10	ND										
Benzo(b)fluoranthene	10	10	ND										
Benzo(k)fluoranthene	10	10	ND										
Benzo(a)pyrene	10	10	ND										
Indeno(1,2,3-cd)pyrene	10	10	ND										
Dibenzo(a,h)anthracene	10	10	ND										
Benzo(ghi)perylene	10	10	ND										

Surrogate Recovery	%Rec.	Limits													
1,2-Dichlorobenzene	92	17-97													
Nitrobenzene-d5	62	20-100													
2-Fluorobiphenyl	65	21-114													
Terphenyl-d14	126	17-130													

MDL = Method Detection Limit
 DLR = MDL X Dilution Factor
 ND = Not Detected (Below DLR).
 NA = Not Analyzed

Approved/Reviewed By: Sylvia Chan
 Sylvia Chan
 Semi Volatiles Group Leader

Date: 8/24/99

The cover letter is an integral part of this analytical report.



Advanced Technology
 Laboratories

1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Client: Entech Analytical Labs, Inc.
 Attn: Michelle Anderson
 Client's Project: Geomatrix Consultants
 Date Received: 08/18/99
 Extraction Method: 3550B
 Matrix: Soil
 Units: ug/kg

EPA Method 8270C SIM (PAH's only)

Lab No.:		37759-005											
Client Sample I.D.:		15847-005											
Date Sampled:		08/16/99											
QC Batch #:		S998270S234											
Date Extracted:		08/19/99											
Date Analyzed:		08/19/99											
Analyst Initials:		HL											
Dilution Factor:		1											
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results
Naphthalene	10	10	ND										
Acenaphthylene	10	10	ND										
Acenaphthene	10	10	ND										
Fluorene	10	10	ND										
Phenanthrene	10	10	ND										
Anthracene	10	10	ND										
Fluoranthene	10	10	ND										
Pvrene	10	10	ND										
Benzo(a)anthracene	10	10	ND										
Chrysene	10	10	ND										
Benzo(b)fluoranthene	10	10	ND										
Benzo(k)fluoranthene	10	10	ND										
Benzo(a)pvrene	10	10	ND										
Indeno(1,2,3-cd)pvrene	10	10	ND										
Dibenzo(a,h)anthracene	10	10	ND										
Benzo(ghi)perylene	10	10	ND										
Surrogate Recovery		%Rec.	Limits										
1,2-Dichlorobenzene		84	17-97										
Nitrobenzene-d5		60	20-100										
2-Fluorobiphenyl		90	21-114										
Terphenyl-d14		121	17-130										

MDL = Method Detection Limit
 DLR = MDL X Dilution Factor

ND = Not Detected (Below DLR).
 NA = Not Analyzed

Approved/Reviewed By: Sylvia Chan
 Semi Volatiles Group Leader

Date: 8/24/99

The cover letter is an integral part of this analytical report.

Client: Entech Analytical Labs, Inc.
 Attn: Michelle Anderson
 Client's Project: Geomatrix Consultants
 Date Received: 08/18/99
 Extraction Method: 3550B
 Matrix: Soil
 Units: ug/kg

EPA Method 8270C SIM (PAH's only)

Lab No.:	37759-006												
Client Sample I.D.:	15847-006												
Date Sampled:	08/16/99												
QC Batch #:	S998270S234												
Date Extracted:	08/18/99												
Date Analyzed:	08/19/99												
Analyst Initials:	HL												
Dilution Factor:	1												
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results
Naphthalene	10	10	ND										
Acenaphthylene	10	10	ND										
Acenaphthene	10	10	ND										
Fluorene	10	10	ND										
Phenanthrene	10	10	ND										
Anthracene	10	10	ND										
Fluoranthene	10	10	ND										
Pyrene	10	10	ND										
Benzo(a)anthracene	10	10	ND										
Chrysene	10	10	ND										
Benzo(b)fluoranthene	10	10	ND										
Benzo(k)fluoranthene	10	10	ND										
Benzo(a)pyrene	10	10	ND										
Indeno(1,2,3-cd)pyrene	10	10	ND										
Dibenzo(a,h)anthracene	10	10	ND										
Benzo(ghi)perylene	10	10	ND										
Surrogate Recovery	%Rec.	Limits											
1,2-Dichlorobenzene	88	17-97											
Nitrobenzene-d5	42	20-100											
2-Fluorobiphenyl	97	21-114											
Terphenyl-d14	102	17-130											

MDL = Method Detection Limit ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor NA = Not Analyzed

Approved/Reviewed By: Sylvia Chan
 Sylvia Chan
 Semi Volatiles Group Leader

Date: 8/24/99

The cover letter is an integral part of this analytical report.



Advanced Technology
 Laboratories

1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Client: Entech Analytical Labs, Inc.
 Attn: Michelle Anderson
 Client's Project: Geomatrix Consultants
 Date Received: 08/18/99
 Extraction Method: 3550B
 Matrix: ---
 Units: ---

EPA Method 8270C SIM (PAH's only)

Lab No.:		LCS											
Client Sample I.D.:		---											
Date Sampled:		---											
QC Batch #:		S998270S234											
Date Extracted:		08/18/99											
Date Analyzed:		08/19/99											
Analyst Initials:		HL											
Dilution Factor:		1											
ANALYTE	MDL	Limits	%Rec	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results
Naphthalene	10	11-182	108										
Acenaphthylene	10	11-182	107										
Acenaphthene	10	11-182	96										
Fluorene	10	11-182	96										
Phenanthrene	10	11-182	119										
Anthracene	10	11-182	97										
Fluoranthene	10	11-182	129										
Pvrene	10	11-182	123										
Benzo(a)anthracene	10	11-182	146										
Chrysene	10	11-182	107										
Benzo(b)fluoranthene	10	11-182	151										
Benzo(k)fluoranthene	10	11-182	126										
Benzo(a)pyrene	10	11-182	134										
Indeno(1,2,3-cd)pyrene	10	11-182	119										
Dibenzo(a,h)anthracene	10	11-182	133										
Benzo(ghi)perylene	10	11-182	108										

MDL = Method Detection Limit
 DLR = MDL X Dilution Factor

ND = Not Detected (Below DLR).
 NA = Not Analyzed

Approved/Reviewed By: Sylvia Chan
 Sylvia Chan
 Semi Volatiles Group Leader

Date: 08/26/99

The cover letter is an integral part of this analytical report.

Spike Recovery and RPD Summary Report - SOIL (NG/KG)

Method : D:\HPCHEM\1\METHODS\SIM0820.M (RTE Integrator)
 Title : EPA 8270C Advanced Technology Laboratory
 Last Update : Fri Jul 30 14:35:59 1999
 Response via : Initial Calibration

Non-Spiked Sample: S0819016.D

Spike Sample	Spike Duplicate Sample
File ID : S0819009.D	S0819010.D
Sample : S234 37759-06 MS	S234 37759-06 MSD
Acq Time: 19 Aug 1999 1:45 pm	19 Aug 1999 2:25 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
Acenaphthene	0.0	500	470	442	94	88	6	17	46- 94
Pyrene	0.0	500	612	509	122#	102	18#	16	36-114

QCBATCH# S99827S234

- Fails Limit Check, However, Lcs was within Qc limits.

Reviewed/Approved By:

Sylvia Chan
 Sylvia Chan
 Semi-vol Group Leader

Date 08/24/99



Entech Analytical Labs, Inc.

CA ELAP # I-2346

525 Del Rey Avenue, Suite E, Sunnyvale, CA 94086 (408) 735-1550 FAX (408) 735-1554

Subcontract Chain of Custody

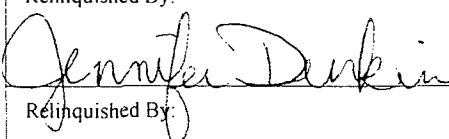
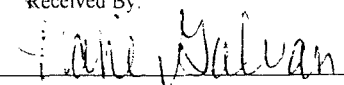
Subcontract Lab:
ATL

Project Name:
Geomatrix Consultants

Date Sent:
8/17/99

Due Date:
8/24/99 FIRM

Sample Number:	Customer Sample Number:	Matrix:	Test:	Method:	Collect Date:	Collect Time:	Bottle Type:	Preservative:
15847-001	GMX-1-2	Soil	EPA 8270 PAH SIMS	EPA 8270	8/16/99	9:30 AM	4 oz Jar	4 C
15847-002	GMX-1-6	Soil	EPA 8270 PAH SIMS	EPA 8270	8/16/99	9:40 AM	4 oz Jar	4 C
15847-003	GMX-2-2	Soil	EPA 8270 PAH SIMS	EPA 8270	8/16/99	10:40 AM	4 oz Jar	4 C
15847-004	GMX-2-6	Soil	EPA 8270 PAH SIMS	EPA 8270	8/16/99	10:50 AM	4 oz Jar	4 C
15847-005	GMX-3-2	Soil	EPA 8270 PAH SIMS	EPA 8270	8/16/99	11:50 AM	4 oz Jar	4 C
15847-006	GMX-3-6	Soil	EPA 8270 PAH SIMS	EPA 8270	8/16/99	12:05 PM	4 oz Jar	4 C

Relinquished By: 	Received By: via CA Overnight	Date: 8/17/99	Time: 18:00
Relinquished By:	Received By: 	Date: 8-18-99	Time: 0800
Relinquished By:	Received By:	Date:	Time:

Notes: Please spike one of these samples for MS/MSD. PAHs by EPA 8270SIM. Report surrogates

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography
Matrix Spike and Matrix Spike DuplicateQC Batch #: GBG1990822
Matrix: Soil
Units: µg/kgDate Analyzed: 08/22/99
Quality Control Sample: 15847-002

PARAMETER	Method #	MB µg/kg	SA µg/kg	SR µg/kg	SP µg/kg	SP % R	SPD µg/kg	SPD %R	RPD	RPD	QC LIMITS %R
Benzene	8020	<5.0	18.0	ND	20	111	20	111	0.0	25	70-130
Toluene	8020	<5.0	125	ND	150	120	145	116	3.4	25	70-130
Ethyl Benzene	8020	<5.0	25.0	ND	25	100	25	100	0.0	25	70-130
Xylenes	8020	<5.0	125	ND	160	128	155	124	3.2	25	70-130
Gasoline	8015	<1000	2500	ND	2665	107	2610	104	2.1	25	75-125
<i>m,m</i> -TFT(S.S.)-PID	8020			99%	124%		115%				65-135
<i>m,m</i> -TFT(S.S.)-FID	8015			114%	125%		121%				65-135

Calculated Recoveries Outside of Control Limits:

Definition of Terms:

- na: Not Analyzed in QC batch
- MB: Method Blank
- SA: Spike Added
- SR: Sample Result
- RPD(%): Duplicate Analysis - Relative Percent Difference
- SP: Spike Result
- SP (%R): Spike % Recovery
- SPD: Spike Duplicate Result
- SPD (%R): Spike % Recovery
- NC: Not Calculated

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography
Laboratory Control Sample

QC Batch #: GBG1990822

Matrix: Soil

Units: µg/kg

Date Analyzed: 08/22/99

Quality Control Sample: Blank Spike

PARAMETER	Method #	MB µg/kg	SA µg/kg	SR µg/kg	SP	SP % R	SPD µg/kg	SPD % R	RPD	QC LIMITS RPD	QC LIMITS %R
Benzene	8020	<5.0	18.0	ND	15.0	83	15.0	83	0.0	25	70-130
Toluene	8020	<5.0	125	ND	130	104	135	108	3.8	25	70-130
Ethyl Benzene	8020	<5.0	25.0	ND	25.0	100	25.0	100	0.0	25	70-130
Xylenes	8020	<5.0	125	ND	140	112	145	116	3.5	25	70-130
Gasoline	8015	<1000	2500	ND	2355	94	2415	97	2.5	25	75-125
aaa-TFT(S.S.)-PID	8020			88%	97%		98%				65-135
aaa-TFT(S.S.)-FID	8015			101%	105%		107%				65-135

Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank

SA: Spike Added

SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result

SP (%R): Spike % Recovery

SPD: Spike Duplicate Result

SPD (%R): Spike % Recovery

NC: Not Calculated

QUALITY CONTROL RESULTS SUMMARY

Matrix Spike/Matrix Spike Duplicate

QC Batch #: DS990817SiO2

Matrix: Soil

Units: mg/Kg

Date analyzed: 08/22/99

Date extracted: 08/20/99

Quality Control Sample: 15809-002

PARAMETER	Method #	MB mg/Kg	SA mg/Kg	SR mg/Kg	SP mg/Kg	SP %R	SPD mg/Kg	SPD %R	RPD	QC LIMITS RPD	QC LIMITS %R
Diesel	8015M	<1.0	25	ND	13	52	19	75	35.8	25	44-119

Calculated Recovery Outside of RPD Control Limits:

*Diesel**Hexacosane*

83%

71%

80%

65-135

Definition of Terms:

MB: Method Blank

na: Not Analyzed in QC batch

SA: Spike Added

SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result

SP (%R): Spike % Recovery

SPD: Spike Duplicate Result

SPD (%R): Spike Duplicate % Recovery

NC: Not Calculated

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E
Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY
Laboratory Control Spikes

QC Batch #: DS990817SiO2

Matrix: Soil

Units: mg/Kg

Date analyzed: 08/22/99

Date extracted: 08/20/99

Quality Control Sample: Blank Spike

PARAMETER	Method #	MB mg/Kg	SA mg/Kg	SR mg/Kg	SP mg/Kg	SP %R	SPD mg/Kg	SPD %R	RPD	QC LIMITS RPD %R
Diesel	8015M	<1.0	25	ND	20	81	21	84	2.8	25 44-119

Hexacosane

86%

93%

86%

65-135

Definition of Terms:

MB: Method Blank

na: Not Analyzed in QC batch

SA: Spike Added

SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result

SP (%R): Spike % Recovery

SPD: Spike Duplicate Result

SPD (%R): Spike Duplicate % Recovery

NC: Not Calculated

CHAIN-OF-CUSTODY RECORD						No 12207		Date: 8-16-99		Page 1 of 1								
Project No.: 4221.020			ANALYSES							REMARKS								
Samplers (Signatures): Chris Posch			EPA Method 8010	EPA Method 8020	EPA Method 8020 (BTEX only)	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	HOLD	EPA 820 Sigs	TPH d/m	Cooled	Soil (S), Water (W), or Vapor (V)	Acidified	Number of containers	Additional Comments	
Date	Time	Sample Number																
8-16	430	GMX-1-2									X	X	15847-001	Y	S	N	1	Under Pacific Job - Bill directly!
	935	GMX-1-4								X			15847-007				1	
	940	GMX-1-6						X			X	X	15847-002				1	
	945	GMX-1-8								X			15847-008				1	
	950	GMX-1-10								X			15847-009				1	
	955	GMX-1-12								X			15847-010				1	
	1005	GMX-1-14								X			15847-011				1	
	1010	GMX-1-16								X			15847-012				1	
	1040	GMX-2-2									X	X	15847-003				1	
	1045	GMX-2-4								X			15847-013				1	
	1050	GMX-2-6						X			X	X	15847-004				1	
✓	1055	GMX-2-8								X			15847-014	✓	✓	✓	✓	TPH g by 8015
			Turnaround time: Standard				Results to: Chris Posch				Total No. of containers:				12			
Relinquished by (signature): Chris Posch		Date: 8/17	Relinquished by (signature):		Date:	Relinquished by (signature):		Date:	Method of Shipment: Gmx drop off									
Printed Name: CHRIS POSCH		Time: 1500	Printed Name:		Time:	Printed Name:		Time:	Laboratory Comments and Log No.:									
Company: Geomatrix			Company:			Company:			5 Day TAT Firm.									
Received by (signature): Jennifer Durkin		Date: 8/17 PM	Received by (signature):		Date:	Received by (signature):		Date:										
Printed Name: Jennifer Durkin		Time: 1507	Printed Name:		Time:	Printed Name:		Time:										
Company: Entech			Company:			Company:												
												Geomatrix Consultants 100 Pine Street, 10th Floor San Francisco, California 94111 415 434 9400						

CHAIN-OF-CUSTODY RECORD				№ 12208		Date: 8-16-99		Page 1 of 1										
Project No.: 1221.020			ANALYSES							REMARKS								
Samplers (Signatures): 			EPA Method 8010	EPA Method 8020	EPA Method 8020 (BTEX only)	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	HOLD	EPA 8270 Sims	TPH d/m	Cooled	Soil (S), Water (W), or Vapor (V)	Acidified	Number of containers	Additional Comments	
Date	Time	Sample Number															Initial Pacific Job Bill Directly! TPH d/m = Total Petroleum hydrocarbons as diesel and motor oil by EPA 8015 following Silica Gel Cleanup PVits by 8270 Sims = TPH g by 8015	
8-16	1100	GMX-2-10							X				15847-015	Y	S	N		1
	1105	GMX-2-12							X				15847-016					
	1150	GMX-2-2									X	X	15847-015					
	1200	GMX-3-4							X				15847-017					
	1205	GMX-3-6						X			X	X	15847-010					
	1210	GMX-3-8							X				15847-018					
	1215	GMX-3-10							X				15847-019					
	1220	GMX-3-12							X				15847-020					
	1225	GMX-3-14							X				15847-021					
✓	1230	GMX-3-16							X				15847-022	✓	✓	✓	✓	
			Turnaround time: Standard				Results to: Chris Bosch				Total No. of containers: 10							
Relinquished by (signature): 		Date: 8/17	Relinquished by (signature):		Date:	Relinquished by (signature):		Date:	Method of Shipment: GMX - drop off									
Printed Name: CHRIS BOSCH		Time: 1500	Printed Name:		Time:	Printed Name:		Time:	Laboratory Comments and Log No.: 5 Day TAT Firm.									
Company: Geomatrix			Company:			Company:												
Received by (signature): 		Date: 8/17/99	Received by (signature):		Date:	Received by (signature):		Date:										
Printed Name: Jennifer Durkin		Time: 15:07	Printed Name:		Time:	Printed Name:		Time:	Geomatrix Consultants 100 Pine Street, 10th Floor San Francisco, California 94111 415 434 9400									
Company: Entech			Company:			Company:												

Entech Analytical Labs, Inc.

CA ELAP= I-2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

August 24, 1999

Chris Posch
Geomatrix Consultants
2101 Webster Street, 12th Floor
Oakland, CA 94612

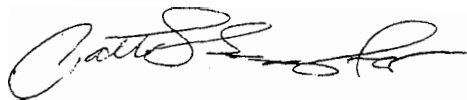
Subject: 4 Water Samples
Lab #'s: 15857-001 – 15857-004
Project Name:
Project Number: 4221.020
P.O. Number: Invoice Union Pacific
Method(s): EPA 8260B, EPA 8015M

Dear Chris Posch,

Chemical analysis on the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#I-2346). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,



Michelle L. Anderson
Lab Director

Entech Analytical Labs, Inc.

CA ELAP= I-2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Geomatrix Consultants
2101 Webster Street, 12th Floor
Oakland, CA 94612
Attn: Chris Posch

Date: 8/24/99
Date Received: 8/17/99
Project: 4221.020
PO #:
Sampled By: Client

Certified Analytical Report

Water Sample Analysis:

Sample ID	GMX-1			GMX-2			GMX-3				
Sample Date	8/16/99			8/16/99			8/16/99				
Sample Time	12:30			13:00			15:30				
Lab #	15857-001			15857-002			15857-003				
	Result	DF	DLR	Result	DF	DLR	Result	DF	DLR	PQL	Method
Results in µg/Liter:											
Extraction Date	8/20/99			8/20/99			8/20/99				
Analysis Date	8/22/99			8/22/99			8/22/99				
QC Batch #	DW990811SiO2			DW990811SiO2			DW990811SiO2				
TPH-Diesel	ND	1.0	50	ND	1.0	50	ND	1.0	50	50	8015M
TPH-Motor Oil	ND	1.0	250	ND	1.0	250	ND	1.0	250	250	8015M
Hexacosane	109%			100%			110%				
Analysis Date	8/19/99			8/18/99			8/18/99				
QC Batch #	GBG1990818			GBG1990818			GBG1990818				
TPH-Gas	ND	1.0	50	ND	1.0	50	ND	1.0	50	50	8015M
a.a.a-Trifluorotoluene	90%			87%			91%				

TPH-Diesel and TPH-Motor Oil extraction performed with silica gel cleanup (EPA 3630-Mod)


Michelle L. Anderson, Lab Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

CA ELAP# I-2346

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Geomatrix Consultants
2101 Webster Street, 12th Floor
Oakland, CA 94612
Attn: Chris Posch

Date: 8/24/99
Date Received: 8/17/99
Project: 4221.020
PO #:
Sampled By: Client

Certified Analytical Report

Water Sample Analysis:

Sample ID	Trip Blank										
Sample Date	8/4/99										
Sample Time	7:25										
Lab #	15857-004										
	Result	DF	DLR							PQL	Method
Results in µg/Liter:											
Analysis Date	8/18/99										
QC Batch #	GBG1990819										
TPH-Gas	ND	1.0	50							50	8015M
a,a,a-Trifluorotoluene	92%										


Michelle Anderson, Lab Director

Environmental Analysis Since 1983

Certified Analytical Report Volatile Organic Compounds by EPA Method 8260B

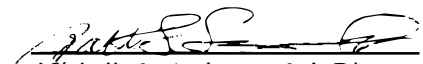
Client: Geomatrix Consultants
Sample Matrix: Water
Sample Date/Time: 8/16/99 12:30
Lab #: 15857-001
Client ID: GMX-1

Date Reported: 8/24/99
Date Received: 8/17/99
Date Analyzed: 8/24/99
Dilution Factor: 1
QC Batch #: WGCMS990824

Compound	Value	PQL	DLR	Compound	Value	PQL	DLR
Acetone	ND	100	100	Chloroform	ND	5	5
Acrylonitrile	ND	5	5	Chloromethane	ND	5	5
Allyl Chloride	ND	5	5	2-Chlorotoluene	ND	5	5
tert-Amyl Methyl Ether	ND	5	5	4-Chlorotoluene	ND	5	5
Benzene	ND	5	5	Dibromochloromethane	ND	5	5
Benzyl Chloride	ND	5	5	1,2-Dibromo-3-chloropropane	ND	5	5
Bromobenzene	ND	5	5	1,2-Dibromoethane	ND	5	5
Bromochloromethane	ND	5	5	Dibromomethane	ND	5	5
Bromodichloromethane	ND	5	5	cis-1,4-Dichloro-2-butene	ND	5	5
Bromoform	ND	5	5	trans-1,4-Dichloro-2-butene	ND	5	5
Bromomethane	ND	5	5	Dichlorodifluoromethane	ND	5	5
tert-Butanol	ND	20	20	1,2-Dichlorobenzene	ND	5	5
2-Butanone (MEK)	ND	20	20	1,3-Dichlorobenzene	ND	5	5
tert-Butyl Ethyl Ether	ND	5	5	1,4-Dichlorobenzene	ND	5	5
n-Butylbenzene	ND	5	5	1,1-Dichloroethane	ND	5	5
sec-Butylbenzene	ND	5	5	1,2-Dichloroethane	ND	5	5
tert-Butylbenzene	ND	5	5	1,1-Dichloroethene	ND	5	5
Carbon Disulfide	ND	5	5	cis-1,2-Dichloroethene	ND	5	5
Carbon Tetrachloride	ND	5	5	trans-1,2-Dichloroethene	ND	5	5
Chlorobenzene	ND	5	5	1,2-Dichloropropane	ND	5	5
Chloroethane	ND	5	5	1,3-Dichloropropane	ND	5	5
2-Chloroethyl Vinyl Ether	ND	5	5	2,2-Dichloropropane	ND	5	5

Surrogate Recovery (%)
Dibromofluoromethane 100
Toluene-d8 99
4-Bromofluorobenzene 90

1. Results are reported in ug/Liter (ppb)
2. DLR= DF x PQL
3. Analysis performed by Entech Analytical Labs, Inc.
(CAELAP #I-2346)


Michelle L. Anderson, Lab Director

ND: None Detected at or above DLR
DLR: Detection Reporting Limit

PQL: Practical Quantitation Limit
DF: Dilution Factor

Certified Analytical Report Volatile Organic Compounds by EPA Method 8260B

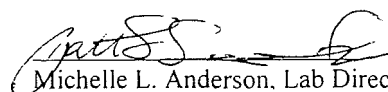
Client: Geomatrix Consultants
Sample Matrix: Water
Sample Date/Time: 8/16/99 12:30
Lab #: 15857-001
Client ID: GMX-1

Date Reported: 8/24/99
Date Received: 8/17/99
Date Analyzed: 8/24/99
Dilution Factor: 1
QC Batch #: WGCMS990824

Compound	Value	PQL	DLR	Compound	Value	PQL	DLR
1,1-Dichloropropene	ND	5	5	Tetrachloroethene	ND	5	5
cis-1,3-Dichloropropene	ND	5	5	Toluene	ND	5	5
trans-1,3-Dichloropropene	ND	5	5	1,2,3-Trichlorobenzene	ND	5	5
Diisopropyl Ether	ND	5	5	1,2,4-Trichlorobenzene	ND	5	5
Ethyl Methacrylate	ND	5	5	1,2,3-Trichloropropane	ND	5	5
Ethylbenzene	ND	5	5	1,1,1-Trichloroethane	ND	5	5
Hexachlorobutadiene	ND	5	5	1,1,2-Trichloroethane	ND	5	5
2-Hexanone	ND	20	20	Trichloroethene	ND	5	5
Iodomethane	ND	5	5	Trichlorofluoromethane	ND	5	5
Isopropylbenzene	ND	5	5	1,2,4-Trimethylbenzene	ND	5	5
p-Isopropyltoluene	ND	5	5	1,3,5-Trimethylbenzene	ND	5	5
Methacrylonitrile	ND	5	5	Xylenes (total)	ND	5	5
Methyl Methacrylate	ND	5	5	Vinyl Chloride	ND	5	5
4-Methyl-2-Pentanone (MIBK)	ND	20	20				
Methyl-tert-butyl Ether	ND	5	5				
Methylene Chloride	ND	5	5				
Naphthalene	ND	5	5				
Pentachloroethane	ND	5	5				
2-Picoline	ND	5	5				
n-Propylbenzene	ND	5	5				
Styrene	ND	5	5				
1,1,1,2-Tetrachloroethane	ND	5	5				
1,1,2,2-Tetrachloroethane	ND	5	5				

Surrogate Recovery (%)
Dibromofluoromethane 100
Toluene-d8 99
4-Bromofluorobenzene 90

1. Results are reported in ug/Liter (ppb)
2. DLR= DF x PQL
3. Analysis performed by Entech Analytical Labs, Inc.
(CAELAP #I-2346)


Michelle L. Anderson, Lab Director

ND: None Detected at or above DLR
DLR: Detection Reporting Limit

PQL: Practical Quantitation Limit
DF: Dilution Factor

Certified Analytical Report Volatile Organic Compounds by EPA Method 8260B

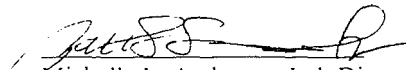
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Sample Matrix: Water
Sample Date/Time: 8/16/99 13:00
Lab #: 15857-002
Client ID: GMX-2

Date Reported: 8/24/99
Date Received: 8/17/99
Date Analyzed: 8/24/99
Dilution Factor: 1
QC Batch #: WGCMS990824

Compound	Value	PQL	DLR	Compound	Value	PQL	DLR
Acetone	ND	100	100	Chloroform	ND	5	5
Acrylonitrile	ND	5	5	Chloromethane	ND	5	5
Allyl Chloride	ND	5	5	2-Chlorotoluene	ND	5	5
tert-Amyl Methyl Ether	ND	5	5	4-Chlorotoluene	ND	5	5
Benzene	ND	5	5	Dibromochloromethane	ND	5	5
Benzyl Chloride	ND	5	5	1,2-Dibromo-3-chloropropane	ND	5	5
Bromobenzene	ND	5	5	1,2-Dibromoethane	ND	5	5
Bromochloromethane	ND	5	5	Dibromomethane	ND	5	5
Bromodichloromethane	ND	5	5	cis-1,4-Dichloro-2-butene	ND	5	5
Bromoform	ND	5	5	trans-1,4-Dichloro-2-butene	ND	5	5
Bromomethane	ND	5	5	Dichlorodifluoromethane	ND	5	5
tert-Butanol	ND	20	20	1,2-Dichlorobenzene	ND	5	5
2-Butanone (MEK)	ND	20	20	1,3-Dichlorobenzene	ND	5	5
tert-Butyl Ethyl Ether	ND	5	5	1,4-Dichlorobenzene	ND	5	5
n-Butylbenzene	ND	5	5	1,1-Dichloroethane	ND	5	5
sec-Butylbenzene	ND	5	5	1,2-Dichloroethane	ND	5	5
tert-Butylbenzene	ND	5	5	1,1-Dichloroethene	ND	5	5
Carbon Disulfide	ND	5	5	cis-1,2-Dichloroethene	ND	5	5
Carbon Tetrachloride	ND	5	5	trans-1,2-Dichloroethene	ND	5	5
Chlorobenzene	ND	5	5	1,2-Dichloropropane	ND	5	5
Chloroethane	ND	5	5	1,3-Dichloropropane	ND	5	5
2-Chloroethyl Vinyl Ether	ND	5	5	2,2-Dichloropropane	ND	5	5

Surrogate	Recovery (%)
Dibromofluoromethane	97
Toluene-d8	98
4-Bromofluorobenzene	93

1. Results are reported in ug/Liter (ppb)
2. DLR= DF x PQL
3. Analysis performed by Entech Analytical Labs, Inc.
(CAELAP #I-2346)


Michelle L. Anderson, Lab Director

ND: None Detected at or above DLR
DLR: Detection Reporting Limit

PQL: Practical Quantitation Limit
DF: Dilution Factor

Certified Analytical Report Volatile Organic Compounds by EPA Method 8260B

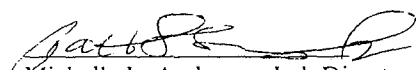
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Sample Matrix: Water
Sample Date/Time: 8/16/99 13:00
Lab #: 15857-002
Client ID: GMX-2

Date Reported: 8/24/99
Date Received: 8/17/99
Date Analyzed: 8/24/99
Dilution Factor: 1
QC Batch #: WGCMS990824

Compound	Value	PQL	DLR	Compound	Value	PQL	DLR
1,1-Dichloropropene	ND	5	5	Tetrachloroethene	ND	5	5
cis-1,3-Dichloropropene	ND	5	5	Toluene	ND	5	5
trans-1,3-Dichloropropene	ND	5	5	1,2,3-Trichlorobenzene	ND	5	5
Diisopropyl Ether	ND	5	5	1,2,4-Trichlorobenzene	ND	5	5
Ethyl Methacrylate	ND	5	5	1,2,3-Trichloropropane	ND	5	5
Ethylbenzene	ND	5	5	1,1,1-Trichloroethane	ND	5	5
Hexachlorobutadiene	ND	5	5	1,1,2-Trichloroethane	ND	5	5
2-Hexanone	ND	20	20	Trichloroethene	ND	5	5
Iodomethane	ND	5	5	Trichlorofluoromethane	ND	5	5
Isopropylbenzene	ND	5	5	1,2,4-Trimethylbenzene	ND	5	5
p-Isopropyltoluene	ND	5	5	1,3,5-Trimethylbenzene	ND	5	5
Methacrylonitrile	ND	5	5	Xylenes (total)	ND	5	5
Methyl Methacrylate	ND	5	5	Vinyl Chloride	ND	5	5
4-Methyl-2-Pentanone (MIBK)	ND	20	20				
Methyl-tert-butyl Ether	ND	5	5				
Methylene Chloride	ND	5	5				
Naphthalene	ND	5	5				
Pentachloroethane	ND	5	5				
2-Picoline	ND	5	5				
n-Propylbenzene	ND	5	5				
Styrene	ND	5	5				
1,1,1,2-Tetrachloroethane	ND	5	5				
1,1,2,2-Tetrachloroethane	ND	5	5				

Surrogate	Recovery (%)
Dibromofluoromethane	97
Toluene-d8	98
4-Bromofluorobenzene	93

1. Results are reported in ug/Liter (ppb)
2. DLR= DF x PQL
3. Analysis performed by Entech Analytical Labs, Inc.
(CAELAP #I-2346)


Michelle L. Anderson, Lab Director

ND: None Detected at or above DLR
DLR: Detection Reporting Limit

PQL: Practical Quantitation Limit
DF: Dilution Factor

Certified Analytical Report Volatile Organic Compounds by EPA Method 8260B

Client: Geomatrix Consultants
Sample Matrix: Water
Sample Date/Time: 8/16/99 15:30
Lab #: 15857-003
Client ID: GMX-3

Date Reported: 8/24/99
Date Received: 8/17/99
Date Analyzed: 8/24/99
Dilution Factor: 1
QC Batch #: WGCMS990824

Compound	Value	PQL	DLR	Compound	Value	PQL	DLR
Acetone	ND	100	100	Chloroform	ND	5	5
Acrylonitrile	ND	5	5	Chloromethane	ND	5	5
Allyl Chloride	ND	5	5	2-Chlorotoluene	ND	5	5
tert-Amyl Methyl Ether	ND	5	5	4-Chlorotoluene	ND	5	5
Benzene	ND	5	5	Dibromochloromethane	ND	5	5
Benzyl Chloride	ND	5	5	1,2-Dibromo-3-chloropropane	ND	5	5
Bromobenzene	ND	5	5	1,2-Dibromoethane	ND	5	5
Bromochloromethane	ND	5	5	Dibromomethane	ND	5	5
Bromodichloromethane	ND	5	5	cis-1,4-Dichloro-2-butene	ND	5	5
Bromoform	ND	5	5	trans-1,4-Dichloro-2-butene	ND	5	5
Bromomethane	ND	5	5	Dichlorodifluoromethane	ND	5	5
tert-Butanol	ND	20	20	1,2-Dichlorobenzene	ND	5	5
2-Butanone (MEK)	ND	20	20	1,3-Dichlorobenzene	ND	5	5
tert-Butyl Ethyl Ether	ND	5	5	1,4-Dichlorobenzene	ND	5	5
n-Butylbenzene	ND	5	5	1,1-Dichloroethane	ND	5	5
sec-Butylbenzene	ND	5	5	1,2-Dichloroethane	ND	5	5
tert-Butylbenzene	ND	5	5	1,1-Dichloroethene	ND	5	5
Carbon Disulfide	ND	5	5	cis-1,2-Dichloroethene	ND	5	5
Carbon Tetrachloride	ND	5	5	trans-1,2-Dichloroethene	ND	5	5
Chlorobenzene	ND	5	5	1,2-Dichloropropane	ND	5	5
Chloroethane	ND	5	5	1,3-Dichloropropane	ND	5	5
2-Chloroethyl Vinyl Ether	ND	5	5	2,2-Dichloropropane	ND	5	5

Surrogate Recovery (%)
Dibromofluoromethane 100
Toluene-d8 96
4-Bromofluorobenzene 88

- Results are reported in ug/Liter (ppb)
- DLR = DF x PQL
- Analysis performed by Entech Analytical Labs, Inc.
(CAELAP #1-2346)


Michelle L. Anderson, Lab Director

ND: None Detected at or above DLR
DLR: Detection Reporting Limit

PQL: Practical Quantitation Limit
DF: Dilution Factor

Entech Analytical Labs, Inc.

CA ELAP# I-2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Certified Analytical Report Volatile Organic Compounds by EPA Method 8260B

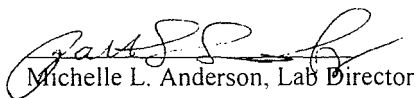
Client: Geomatrix Consultants
Sample Matrix: Water
Sample Date/Time: 8/16/99 15:30
Lab #: 15857-003
Client ID: GMX-3

Date Reported: 8/24/99
Date Received: 8/17/99
Date Analyzed: 8/24/99
Dilution Factor: 1
QC Batch #: WGCMS990824

Compound	Value	PQL	DLR	Compound	Value	PQL	DLR
1,1-Dichloropropene	ND	5	5	Tetrachloroethene	ND	5	5
cis-1,3-Dichloropropene	ND	5	5	Toluene	ND	5	5
trans-1,3-Dichloropropene	ND	5	5	1,2,3-Trichlorobenzene	ND	5	5
Diisopropyl Ether	ND	5	5	1,2,4-Trichlorobenzene	ND	5	5
Ethyl Methacrylate	ND	5	5	1,2,3-Trichloropropane	ND	5	5
Ethylbenzene	ND	5	5	1,1,1-Trichloroethane	ND	5	5
Hexachlorobutadiene	ND	5	5	1,1,2-Trichloroethane	ND	5	5
2-Hexanone	ND	20	20	Trichloroethene	ND	5	5
Iodomethane	ND	5	5	Trichlorofluoromethane	ND	5	5
Isopropylbenzene	ND	5	5	1,2,4-Trimethylbenzene	ND	5	5
p-Isopropyltoluene	ND	5	5	1,3,5-Trimethylbenzene	ND	5	5
Methacrylonitrile	ND	5	5	Xylenes (total)	ND	5	5
Methyl Methacrylate	ND	5	5	Vinyl Chloride	ND	5	5
4-Methyl-2-Pentanone (MIBK)	ND	20	20				
Methyl-tert-butyl Ether	ND	5	5				
Methylene Chloride	ND	5	5				
Naphthalene	ND	5	5				
Pentachloroethane	ND	5	5				
2-Picoline	ND	5	5				
n-Propylbenzene	ND	5	5				
Styrene	ND	5	5				
1,1,1,2-Tetrachloroethane	ND	5	5				
1,1,2,2-Tetrachloroethane	ND	5	5				

Surrogate	Recovery (%)
Dibromofluoromethane	100
Toluene-d8	96
4-Bromofluorobenzene	88

1. Results are reported in ug/Liter (ppb)
2. DLR= DF x PQL
3. Analysis performed by Entech Analytical Labs, Inc.
(CAELAP #I-2346)


Michelle L. Anderson, Lab Director

ND: None Detected at or above DLR
DLR: Detection Reporting Limit

PQL: Practical Quantitation Limit
DF: Dilution Factor

Environmental Analysis Since 1983

Certified Analytical Report Volatile Organic Compounds by EPA Method 8260B

Client: Geomatrix Consultants
Sample Matrix: Water
Sample Date/Time: 8/4/99 7:25
Lab #: 15857-004
Client ID: Trip Blank

Date Reported: 8/24/99
Date Received: 8/17/99
Date Analyzed: 8/24/99
Dilution Factor: 1
QC Batch #: WGCMS990824

Compound	Value	PQL	DLR	Compound	Value	PQL	DLR
Acetone	ND	100	100	Chloroform	ND	5	5
Acrylonitrile	ND	5	5	Chloromethane	ND	5	5
Allyl Chloride	ND	5	5	2-Chlorotoluene	ND	5	5
tert-Amyl Methyl Ether	ND	5	5	4-Chlorotoluene	ND	5	5
Benzene	ND	5	5	Dibromochloromethane	ND	5	5
Benzyl Chloride	ND	5	5	1,2-Dibromo-3-chloropropane	ND	5	5
Bromobenzene	ND	5	5	1,2-Dibromoethane	ND	5	5
Bromochloromethane	ND	5	5	Dibromomethane	ND	5	5
Bromodichloromethane	ND	5	5	cis-1,4-Dichloro-2-butene	ND	5	5
Bromoform	ND	5	5	trans-1,4-Dichloro-2-butene	ND	5	5
Bromomethane	ND	5	5	Dichlorodifluoromethane	ND	5	5
tert-Butanol	ND	20	20	1,2-Dichlorobenzene	ND	5	5
2-Butanone (MEK)	ND	20	20	1,3-Dichlorobenzene	ND	5	5
tert-Butyl Ethyl Ether	ND	5	5	1,4-Dichlorobenzene	ND	5	5
n-Butylbenzene	ND	5	5	1,1-Dichloroethane	ND	5	5
sec-Butylbenzene	ND	5	5	1,2-Dichloroethane	ND	5	5
tert-Butylbenzene	ND	5	5	1,1-Dichloroethene	ND	5	5
Carbon Disulfide	ND	5	5	cis-1,2-Dichloroethene	ND	5	5
Carbon Tetrachloride	ND	5	5	trans-1,2-Dichloroethene	ND	5	5
Chlorobenzene	ND	5	5	1,2-Dichloropropane	ND	5	5
Chloroethane	ND	5	5	1,3-Dichloropropane	ND	5	5
2-Chloroethyl Vinyl Ether	ND	5	5	2,2-Dichloropropane	ND	5	5

Surrogate

Dibromofluoromethane
Toluene-d8
4-Bromofluorobenzene

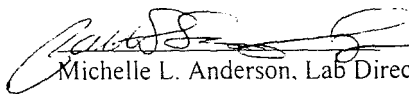
Recovery (%)

93
97
87

1. Results are reported in ug/Liter (ppb)

2. DLR= DF x PQL

3. Analysis performed by Entech Analytical Labs, Inc.
(CAELAP #I-2346)


Michelle L. Anderson, Lab Director

ND: None Detected at or above DLR
DLR: Detection Reporting Limit

PQL: Practical Quantitation Limit
DF: Dilution Factor

Entech Analytical Labs, Inc.

CA ELAP# I-2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Certified Analytical Report Volatile Organic Compounds by EPA Method 8260B

Client: Geomatrix Consultants
Sample Matrix: Water
Sample Date/Time: 8/4/99 7:25
Lab #: 15857-004
Client ID: Trip Blank

Date Reported: 8/24/99
Date Received: 8/17/99
Date Analyzed: 8/24/99
Dilution Factor: 1
QC Batch #: WGCMS990824

Compound	Value	PQL	DLR	Compound	Value	PQL	DLR
1,1-Dichloropropene	ND	5	5	Tetrachloroethene	ND	5	5
cis-1,3-Dichloropropene	ND	5	5	Toluene	ND	5	5
trans-1,3-Dichloropropene	ND	5	5	1,2,3-Trichlorobenzene	ND	5	5
Diisopropyl Ether	ND	5	5	1,2,4-Trichlorobenzene	ND	5	5
Ethyl Methacrylate	ND	5	5	1,2,3-Trichloropropane	ND	5	5
Ethylbenzene	ND	5	5	1,1,1-Trichloroethane	ND	5	5
Hexachlorobutadiene	ND	5	5	1,1,2-Trichloroethane	ND	5	5
2-Hexanone	ND	20	20	Trichloroethene	ND	5	5
Iodomethane	ND	5	5	Trichlorofluoromethane	ND	5	5
Isopropylbenzene	ND	5	5	1,2,4-Trimethylbenzene	ND	5	5
p-Isopropyltoluene	ND	5	5	1,3,5-Trimethylbenzene	ND	5	5
Methacrylonitrile	ND	5	5	Xylenes (total)	ND	5	5
Methyl Methacrylate	ND	5	5	Vinyl Chloride	ND	5	5
4-Methyl-2-Pentanone (MIBK)	ND	20	20				
Methyl-tert-butyl Ether	ND	5	5				
Methylene Chloride	ND	5	5				
Naphthalene	ND	5	5				
Pentachloroethane	ND	5	5				
2-Picoline	ND	5	5				
n-Propylbenzene	ND	5	5				
Styrene	ND	5	5				
1,1,1,2-Tetrachloroethane	ND	5	5				
1,1,2,2-Tetrachloroethane	ND	5	5				

Surrogate

Dibromofluoromethane
Toluene-d8
4-Bromofluorobenzene

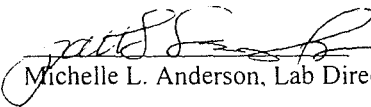
Recovery (%)

93
97
87

1. Results are reported in ug/Liter (ppb)

2. DLR= DF x PQL

3. Analysis performed by Entech Analytical Labs, Inc.
(CAELAP #I-2346)


Michelle L. Anderson, Lab Director

ND None Detected at or above DLR
DLR: Detection Reporting Limit

PQL: Practical Quantitation Limit
DF: Dilution Factor

Certified Analytical Report Volatile Organic Compounds by EPA Method 8260B

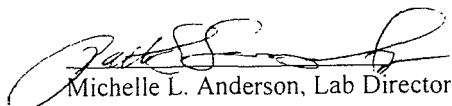
Client: Geomatrix Consultants
Sample Matrix: Water
Sample Date/Time: 8/24/99
Lab #: Method Blank
Client ID:

Date Reported: 8/24/99
Date Received: 8/24/99
Date Analyzed: 8/24/99
Dilution Factor: 1

Compound	Value	PQL	DLR	Compound	Value	PQL	DLR
Acetone	ND	100	100	Chloroform	ND	5	5
Acrylonitrile	ND	5	5	Chloromethane	ND	5	5
Allyl Chloride	ND	5	5	2-Chlorotoluene	ND	5	5
tert-Amyl Methyl Ether	ND	5	5	4-Chlorotoluene	ND	5	5
Benzene	ND	5	5	Dibromochloromethane	ND	5	5
Benzyl Chloride	ND	5	5	1,2-Dibromo-3-chloropropane	ND	5	5
Bromobenzene	ND	5	5	1,2-Dibromoethane	ND	5	5
Bromochloromethane	ND	5	5	Dibromomethane	ND	5	5
Bromodichloromethane	ND	5	5	cis-1,4-Dichloro-2-butene	ND	5	5
Bromoform	ND	5	5	trans-1,4-Dichloro-2-butene	ND	5	5
Bromomethane	ND	5	5	Dichlorodifluoromethane	ND	5	5
tert-Butanol	ND	20	20	1,2-Dichlorobenzene	ND	5	5
2-Butanone (MEK)	ND	20	20	1,3-Dichlorobenzene	ND	5	5
tert-Butyl Ethyl Ether	ND	5	5	1,4-Dichlorobenzene	ND	5	5
n-Butylbenzene	ND	5	5	1,1-Dichloroethane	ND	5	5
sec-Butylbenzene	ND	5	5	1,2-Dichloroethane	ND	5	5
tert-Butylbenzene	ND	5	5	1,1-Dichloroethene	ND	5	5
Carbon Disulfide	ND	5	5	cis-1,2-Dichloroethene	ND	5	5
Carbon Tetrachloride	ND	5	5	trans-1,2-Dichloroethene	ND	5	5
Chlorobenzene	ND	5	5	1,2-Dichloropropane	ND	5	5
Chloroethane	ND	5	5	1,3-Dichloropropane	ND	5	5
2-Chloroethyl Vinyl Ether	ND	5	5	2,2-Dichloropropane	ND	5	5

Surrogate Recovery (%)
Dibromofluoromethane 86
Toluene-d8 97
4-Bromofluorobenzene 86

1. Results are reported in ug/Liter (ppb)
2. DLR= DF x PQL
3. Analysis performed by Entech Analytical Labs, Inc.
(CAELAP #I-2346)


Michelle L. Anderson, Lab Director

ND: None Detected at or above DLR
DLR: Detection Reporting Limit

PQL: Practical Quantitation Limit
DF: Dilution Factor

Intech Analytical Labs, Inc.

CA ELAP# I-2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Geomatrix Consultants
2101 Webster Street, 12th Floor
Oakland, CA 94612
Attn: Chris Posch

Date: 8/24/99
Date Received: 8/17/99
Project: 4221.020
PO #:
Sampled By: Client

Certified Analytical Report

Soil Sample Analysis: (All results in mg/kg)

Sample ID	GMX-1-2			GMX-2-2			GMX-3-2				
Sample Date	8/16/99			8/16/99			8/16/99				
Sample Time	9:30			10:40			11:50				
Lab #	15847-001			15847-003			15847-005				
	Result	DF	DLR	Result	DF	DLR	Result	DF	DLR	PQL	Method
Extraction Date	8/20/99			8/20/99			8/20/99				
Analysis Date	8/22/99			8/22/99			8/22/99				
QC Batch #	DS990817SiO2			DS990817SiO2			DS990817SiO2				
TPH-Diesel	ND	1.0	1.0	ND	1.0	1.0	ND	1.0	1.0	1.0	8015M
TPH-Motor Oil	ND	1.0	13	ND	1.0	13	ND	1.0	13	13	8015M
Hexacosane	80%			79%			86%				

TPH-Diesel and TPH-Motor Oil extraction performed with silica gel cleanup (EPA 3630-Mod)


Michelle L. Anderson, Lab Director

Environmental Analysis Since 1983

Geomatrix Consultants
2101 Webster Street, 12th Floor
Oakland, CA 94612
Attn: Chris Posch

Date: 8/24/99
Date Received: 8/17/99
Project: 4221.020
PO #:
Sampled By: Client

Certified Analytical Report

Soil Sample Analysis: All results in mg/kg)

Sample ID	GMX-1-6			GMX-2-6			GMX-3-6				
Sample Date	8/16/99			8/16/99			8/16/99				
Sample Time	9:40			10:50			12:05				
Lab #	15847-002			15847-004			15847-006				
	Result	DF	DLR	Result	DF	DLR	Result	DF	DLR	PQL	Method
Extraction Date	8/20/99			8/20/99			8/20/99				
Analysis Date	8/22/99			8/22/99			8/22/99				
QC Batch #	DS990817SiO2			DS990817SiO2			DS990817SiO2				
TPH-Diesel	ND	1.0	1.0	ND	1.0	1.0	ND	1.0	1.0	1.0	8015M
TPH-Motor Oil	ND	1.0	13	ND	1.0	13	ND	1.0	13	13	8015M
Hexacosane	77%			93%			88%				
Analysis Date	8/22/99			8/22/99			8/22/99				
QC Batch #	GBG1990822			GBG1990822			GBG1990822				
TPH-Gas	ND	1.0	1.0	ND	1.0	1.0	ND	1.0	1.0	1.0	8015M
a,a,a-Trifluorotoluene	99%			100%			98%				

TPH-Diesel and TPH-Motor Oil extraction performed with silica gel cleanup (EPA 3630-Mod)


Michelle L. Anderson, Lab Director

Entech Analytical Labs, Inc.

CA ELAP= I-2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

August 24, 1999

Chris Posch
Geomatrix Consultants
2101 Webster Street, 12th Floor
Oakland, CA 94612

Subject: 6 Soil Samples
Lab #'s: 15847-001 – 15847-006
Project Name:
Project Number: 4221.020
P.O. Number: Invoice Union Pacific
Method(s): EPA 8015M
EPA 8270 - ATL
Subcontract Lab: Advanced Technology Laboratories (CAELAP #1838)

Dear Chris Posch,

Chemical analysis on the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#I-2346). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,



Michelle L. Anderson
Lab Director

August 23, 1999

ELAP No.: 1838

Entech Analytical Labs, Inc.
525 Del Rey Avenue,
Sunnyvale, CA 94806

ATTN: Michelle Anderson

Client's Project: Geomatrix Consultants
Lab No.: 37759-001/006

Enclosed are the results for sample(s) received by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company. Please feel free to call me at (562) 989 - 4045 if I can be of further assistance to your company.

Sincerely,



Cheryl De Los Reyes
Technical Operations Manager
CDR/jh

Enclosures

This cover letter is an integral part of this analytical report.

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purpose without authorization is prohibited.



Advanced Technology
Laboratories

1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

