

FOR CONTRACT NO.: 07259104

INFORMATION HANDOUT

MATERIALS INFORMATION

Report of Phase I Environmental Assessment

Playa Vista Strip, prepared for Maguire Thomas Partners by Law/Crandall,
February 23, 1996;

Site Investigation Report

Gross Solids Removal Device, Location Nos 31 and 32, prepared for Powell
Constructors, prepared by ENVIRONET, May 28, 2008

Site Investigation Report

Lead Investigation on Route 90 from Slauson Avenue to Lincoln Boulevard 07-
LA-90 KP 1.45/5.15, PM 0.9/3.2, prepared for California Department of
Transportation by GEOCON Geotechnical and Environmental Consultants,
January 1998

ROUTE: 07-LA-90-1.0/3.5

ID # 913



LAW/CRANDALL

A DIVISION OF LAW ENGINEERING
AND ENVIRONMENTAL SERVICES, INC.

**REPORT OF
PHASE I ENVIRONMENTAL ASSESSMENT**

**PLAYA VISTA STIP
STATE ROUTE 90 (MARINA FREEWAY) FROM
LINCOLN BOULEVARD TO CENTINELA AVENUE
PLAYA VISTA PROJECT**

Prepared for:

MAGUIRE THOMAS PARTNERS

Los Angeles, California

February 23, 1996

LAW/CRANDALL, INC.

ENGINEERING AND ENVIRONMENTAL SERVICES

February 23, 1996

Mr. Robert Miller
Maguire Thomas Partners
13250 Jefferson Boulevard
Los Angeles, California 90066

Subject: **Report of Phase I Environmental Assessment
Playa Vista STIP
State Route 90 (Marina Freeway) From
Lincoln Boulevard to Centinela Avenue
Playa Vista Project
Los Angeles, California
Law/Crandall Project 70131-5-0514**

Dear Mr. Miller:

Attached is our report of the Phase I Environmental Assessment for the subject corridor. In performing the Phase I assessment, we evaluate whether activities at the site or nearby properties may have contaminated the site's soil or groundwater.

Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental consultants practicing in this or similar localities at the time of service. This warranty is in lieu of all other warranties, expressed or implied. This report has been prepared for Maguire Thomas Partners to be used solely in evaluating potential environmental implications at the subject site. The report has not been prepared for use by other parties, and may not contain sufficient information for purposes of other parties or other uses.

We appreciate the opportunity to work with you on this project. Please call us at (213) 889-5300 if you have any questions or if we may be of further service.

Respectfully submitted,

LAW/CRANDALL


Daniel P. Hincey
Project Geologist


Juli G. Osborne, C.E.G. 1699
Principal Environmental Geologist

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(3 copies submitted)

cc: Psomas
Caltrans

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Project 70131-5-0514

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EXECUTIVE SUMMARY

On November 20, 1995, Maguire Thomas Partners engaged Law/Crandall (LAW) to perform a Phase I environmental assessment of the proposed STIP along the Marina Freeway. The corridor is located along State Route 90 (Marina Freeway) from the intersection of Lincoln Boulevard to Centinela Avenue in Los Angeles, California.

This executive summary is a synopsis of findings based on our Phase I assessment. For detailed information regarding the findings, please refer to the text of our report.

This assessment did not identify any areas of potential environmental concern. We found no evidence that a specific area of the corridor is on various regulatory agency lists. We do not recommend any further assessment at this time.



1.0 INTRODUCTION

Maguire Thomas Partners engaged Law/Crandall (LAW) to perform a Phase I Environmental Assessment of the right-of-way areas along State Route 90 (Marina Freeway) from Lincoln Boulevard to Centinela Avenue. Our proposal and its terms and conditions were approved by Mr. Robert Miller, Vice President of Maguire Thomas Partners, on November 20, 1995. This report was prepared for your exclusive use, as discussed with Mr. Robert Miller on November 20, 1995. If other parties wish to rely on this report, please have them contact us, so we can execute a secondary client agreement.

2.0 PURPOSE, SCOPE, AND REPORT FORMAT

2.1 PURPOSE

The purpose of the Phase I Environmental Assessment is to identify certain obvious environmental concerns arising from activities on the site or nearby properties. Activities of concern are those that may have contaminated the site's soil or groundwater.

The purpose of this assessment was not to determine the actual presence, degree, or extent of contamination, if any, on the site. Such a determination would require additional exploratory work.

2.2 SCOPE OF WORK

Scope of the Phase I Environmental Assessment

The Phase I Environmental Assessment is a general characterization of selected environmental concerns. This characterization is based on readily available information and site observations. The assessment includes the following services:

- **Geology, Surface Drainage, and Groundwater Flow Assessment** — We review available information regarding the geology, surface drainage, and groundwater flow within the area of the site. Based on the information we gather, we develop an interpretive model of the site. This model helps us identify possible pathways along which contaminants may migrate.

- **Site Reconnaissance** — We visit the site to document observed conditions on the site. We look for obvious indications of activities that may have contaminated the site's soil or groundwater.
- **Area Reconnaissance** — We tour the area to document observed conditions near the site. We look for obvious indications of activities that may have contaminated the site's soil or groundwater. We do not enter off-site properties.
- **Historical Review** — We review historical activities that occurred on or near the site. We assess whether these historical activities may have contaminated the site's soil or groundwater.
- **Regulatory Agency Lists Review** — We review site-specific excerpts from lists published by regulatory agencies. We note whether the agencies have listed the site or nearby properties as having known or suspected environmental concerns. If nearby properties are listed, we assess their potential for contaminating the site's soil or groundwater.

This portion of our services did not include the sampling or laboratory analysis of soil, groundwater, or other materials. However, we were contracted by Maguire Thomas to sample and analyze near-surface samples along the alignment for lead. These findings will be presented in a separate report.

2.3 REPORT FORMAT

Our report contains the following assessment sections:

- Geology, Surface Drainage, and Groundwater Flow
- Site Reconnaissance
- Area Reconnaissance
- Historical Review
- Regulatory Agency Lists Review

An evaluation section includes conclusions and recommendations based on the assessment sections. A statement of interpretive limitations follows the recommendations.

3.0 GEOLOGY, SURFACE DRAINAGE, AND GROUNDWATER FLOW

Surface and subsurface drainage, topography, and geology are reviewed because they may indicate the direction in which off-site contaminants (if present) could be transported to the site.

The local geology is a key factor in the site's groundwater flow. We review the site's surface and subsurface characteristics and available groundwater data for information on the possible movement of contaminants. Because oil or gas wells may be associated with environmental and regulatory concerns, we also note whether known oil or gas wells are on or near the site.

For a list of the references used in this section, refer to the information sources section of this report.

3.1 GEOLOGY

Materials beneath the corridor, from the surface down are as follows:

- About 50 feet of Holocene river channel deposits consisting of gravel, sand and silt.
- About 100 feet of early Pleistocene San Pedro Formation consisting of mainly nearshore marine gravel, sand, sandy silt, silt and clay.
- Beneath these sediments is the Pliocene Pico Formation which is considered bedrock in this area for the purposes of this report.

The Charnock fault is a local groundwater barrier. The fault crosses the corridor at Highway 90, between Inglewood and Centinela Boulevards.

The Pacific Ocean is the nearest body of water; portions of the site range from 2- to 3½-miles away.

3.2 SURFACE DRAINAGE

The corridor is fairly level, with poorly defined drainage. Drainage is controlled by curbs, gutters, and drain inlets. Drainage is discharged to the municipal drainage system. The major drainage channel nearest the alignment is Centinela Creek.

3.3 GROUNDWATER

Two important factors affecting the groundwater flow are the groundwater gradient (the slope of the water table) and the depositional direction (the direction in which waterbearing sediments were deposited). The gradient and depositional direction are important because they influence the net direction of groundwater flow, although, in some situations, other factors (such as faults and bedrock structures) may override them. Groundwater flow is a major factor in the spread of contaminants underground.

The direction of the regional groundwater gradient along the corridor on the east side of the Charnock fault is probably toward the southeast. On the west side of the Charnock fault the direction of the regional groundwater gradient is toward the southwest. The depositional direction is toward the southwest. If the Charnock fault is breached at Ballona Creek, the probable net flow direction is toward the southwest.

Groundwater beneath the corridor occurs in the Ballona Aquifer under semi-confined conditions. Beneath this aquifer is one deeper, confined aquifer. During our site reconnaissance, we did not see evidence of wells on the site.

Along the corridor, the depth to groundwater probably ranges from 10 to 25 feet below ground surface.

containers, items that may contain polychlorinated biphenyls (PCBs), stains or corrosion, and drains or sumps.

Mr. Daniel P. Hency, a LAW environmental professional experienced in similar site assessments, performed the reconnaissance on November 24, 1995.

For a depiction of site and surrounding properties, see Figure 1, Plot Plan.

4.1 SITE RECONNAISSANCE

4.1.1 Site Description

The corridor (Figure 1) is comprised of two strips of land along either side of State Highway 90 from Lincoln Boulevard to Centinela Avenue. The western portion of the highway is separated from Culver to Lincoln Boulevards. This area of land is occupied by an athletic club tennis courts and storage yard. We observed landscaping; however, we did not observe distressed vegetation. We did not see signs of previous site use.

4.1.2 Aboveground and Underground Storage Tanks

Our assessor looks for obvious evidence of ASTs and USTs, such as vent pipes, fill caps, or fuel pumps. The assessor's escort (or other person knowledgeable about the site) may have provided additional information regarding storage tanks. Agency information regarding storage tanks is discussed in the regulatory lists review section of this report.

We did not observe evidence of storage tanks on the sites.

4.1.3 Hazardous Substances and Petroleum Products

Our assessor looks for evidence that hazardous substances are used, treated, stored, and disposed of or generated on the site. An assessor who observes such evidence looks for on-site information such as community right-to-know information, employee hazard communication forms, spill plans, and material safety data sheets (MSDSs).

We did not see visual evidence of hazardous substances on the site. The areas are occupied by a facility that does not use hazardous materials or generate hazardous waste.

4.1.4 Electrical Transformers

Electrical transformers are potential concerns because some transformers contain PCBs in their cooling oils. We did not assess minor items that may contain PCBs, such as fluorescent light fixture ballasts.

We observed two pole-mounted transformers along the right-of-ways of the study areas. We did not see cracks in the transformer casings, heavy rust, or staining that would suggest cooling oil releases. The transformers did not have PCB status labels. We did not observe identification labels on the transformers indicating the owner. We contacted Mr. Peter Lee of the City of Los Angeles by telephone on August 3, 1995. According to Mr. Lee, the transformers most likely belong to Southern California Edison Company (SCE). Our experience is that SCE will not provide the PCB status of the transformers unless the requester agrees to pay for shutdown, sampling, and analytical costs. However, SCE does state that they never specified the use of PCBs in their transformers.

4.2 AREA RECONNAISSANCE

The area reconnaissance helps us evaluate whether adjacent or nearby property uses may have contaminated the sites. Our assessor conducted the reconnaissance by touring the area by automobile and viewing particular businesses from public rights-of-way, but did not enter off-site properties. The findings of our area reconnaissance are discussed according to their direction from the right-of-way areas sites: north, east, south, and west.

4.2.1 North

The Marina Freeway forms the northern boundary of the southern right-of-way area. To the north of the northern right-of-way area are residential and business properties. We found no obvious evidence of activities that, in our opinion, may have contaminated soil or groundwater at the area.

4.2.2 East

The Marina Freeway at Centinela Avenue forms the eastern boundary. The adjacent property is a continuation of the freeway. We found no obvious evidence of activities that, in our opinion, may have contaminated soil or groundwater at the area.

4.2.3 South

The Marina Freeway forms the southern boundary of the northern right-of-way area. To the south of the southern right-of-way area are residential and business properties. We found no obvious evidence of activities that in our opinion, may have contaminated soil or groundwater at the area.

4.2.4 West

Lincoln Boulevard forms the western boundary of the site. Beyond are business properties. We found no obvious evidence of activities that in our opinion, have contaminated soil or groundwater at the area.

5.0 HISTORICAL REVIEW

In the historical review, we review information on the past uses of the site and nearby properties. We assess whether these uses may have contaminated the site's soil or groundwater.

The earliest historical references we consult date from 1940 or from the first urban use of the site or nearby properties. Information sources we commonly use include aerial photographs, fire insurance maps, and United States Geological Survey (USGS) topographic maps. For a list of the information sources used in this section, refer to the Information Sources list following the statement of limitations.

The historical review results in two histories: a history of the past use of the site and a history of the past use of the adjacent properties. Additional historical information may exist; therefore, alternative histories could be construed for the site and nearby properties.

Sanborn Fire Insurance (Sanborn) maps were requested for the corridor and vicinity. Sanborn indicated no map coverage was available for this section of the State Route 90 corridor or vicinity.

5.1 PAST SITE USE

The earliest reference, a 1918 Sanborn Fire Insurance map and subsequent aerial photographs dated 1938, 1952, 1964, 1972, 1985, and 1992, show the site occupied by Highway 90 and right-of-way areas as it exists today.

5.2 PAST USE OF SURROUNDING PROPERTIES

The 1938, 1952 and 1963 aerial photographs indicate that Highway 90 was surrounded by undeveloped land. The 1972 aerial photograph shows residential dwellings on the north side of the east portion and businesses to the south side.

6.0 REVIEW OF REGULATORY AGENCY LISTS

We reviewed excerpts of federal, state, and local environmental regulatory agency lists. The excerpts were prepared by BBL, Inc. (BBL), an environmental data search firm. BBL revises their lists periodically; the date of the latest revision is shown on BBL's report, which is appended to this report as Appendix B, BBL, Environmental Record Search. We requested a search of approximately 0.25 miles on either side of the roadways.

Our scope of services did not include interviews with agency employees or the review of agency files.

6.1 SUMMARY OF LISTS REVIEWED

We reviewed excerpts from the following federal, state, and local lists. The BBL report identifies listed properties; we review information on the properties within the search ranges indicated in the tables. The BBL report also summarizes the origin and purpose of each list. Each area has a table with information on properties listed and properties of concern.

Table 1. Summary of Lists Searched

Short Name	Full Name	Search Range	Listed Properties ¹	Concerns ²
<i>U.S. Environmental Protection Agency (EPA) Lists</i>				
NPL (NL)	National Priorities List	¼ mi.	—	—
CERCLIS (CC)	Comprehensive Environmental Response, Compensation, and Liability Information System	¼ mi.	—	—
FEDFAC (FF)	Federal Facilities	¼ mi.	—	—
ERNS (ER)	Emergency Response Notification System	¼ mi.	5	—
SETS (SE)	Site Enforcement Tracking System	¼ mi.	—	—
RCRA (RV)	Resource Conservation and Recovery Act (RCRA) Violators	¼ mi.	—	—
<i>State and Regional Lists</i>				
AWP (BP)	Annual Work Plan	¼ mi.	—	—
CALSITES (AS)	The former Abandoned Sites Program Information System (ASPIS)	¼ mi.	2, 15, 20, 28, 31	—
Cortese (CS)	California Office of Planning and Research, Hazardous Waste and Substances Sites List	¼ mi.	26	—
LUST (LT)	Leaking Underground Storage Tanks (State and Regional)	¼ mi.	25, 26	—
SWAT (SR)	Solid Waste Assessment Test (Regional)	¼ mi.	34	—
SWIS (SS)	Solid Waste Information System	¼ mi.	—	—
Toxic Releases (NT)	Toxic Releases (A compendium of regional lists)	¼ mi.	—	—
TPC (TP)	Toxic Pits Cleanup Act	¼ mi.	—	—
WIP (WP)	Well Investigation Program	¼ mi.	—	—
<i>Operating Permits (Federal, State and Regional)</i>				
RCRA (RN)	RCRA Notifiers	adjacent	—	—
RCRA (TD)	RCRA Transfer, Storage and Disposal Facilities	adjacent	—	—
SARA (SA)	Superfund Amendments and Reauthorization Act Title III	adjacent	—	—
NRCL (NC)	Nuclear Regulatory Commission Licensees	adjacent	—	—
PCB (PB)	PCB Waste Handlers Database	adjacent	—	—
PCS (PC)	Permit Compliance System	adjacent	—	—
AFS (AF)	AIRS Facility System	adjacent	—	—
SSTS (PE)	Section Seven Tracking System	adjacent	—	—
FIFRA/TSCA (FT)	FIFRA/TSCA Tracking System	adjacent	—	—
DOCKET (DO)	Enforcement Docket System	adjacent	—	—
C-DOCKET (CD)	C-Docket	adjacent	—	—
FFIS (FI)	Federal Facilities Information System	adjacent	—	—
CCIS (CI)	Chemicals in Commerce Information System	adjacent	—	—
FINDS (FN)	FINDS EPA Facility Index system	adjacent	—	—
HWIS (HW)	Hazardous Waste Information System	adjacent	—	—
UST (UT)	Permitted Underground Storage Tanks	adjacent	—	—

1 Total number of sites listed with search ranges. Additional sites not listed by BBL are listed on various regulatory databases, however, have been issued a "no further action," "closed case" or "certified after remediation" status and are not mapped by BBL. Therefore, these sites are not included in the total number of sites listed in this column.

2 Map location numbers of listed properties we consider to be environmental concerns.

6.2 LISTED INFORMATION ON THE SITE

The excerpts we reviewed did not contain information on the site.

6.3 PROPERTIES OF POTENTIAL CONCERN BY AREA

Some agencies have listed properties within the search ranges specified in the preceding table. Usually we do not consider every listed property to be an environmental concern to the site.

Three factors help us determine whether we consider a property to be an environmental concern: the property's closeness to the site, its status as listed by the regulatory agency, and its position relative to the groundwater flow under the site.

Our definition of closeness usually depends on the local depth to groundwater. In general, the deeper the groundwater, the closer a property must be to the site for us to consider it a potential environmental concern. Therefore, although a property may be within the indicated search range for a list, it may not be close enough, in our opinion, to pose an environmental concern to the site.

The agencies provide a ranking and condition of a property. We refer to this ranking as the properties "status." Sometimes, we believe the agency status for the property indicates the property is an environmental concern.

The important factor in a property's position is whether the property is upgradient of the site, relative to the groundwater flow direction. If a property has contaminated the groundwater, and the property is upgradient from the site, then the probable flow direction of contaminated groundwater is toward the site.

As indicated in the preceding table, we do not consider any of the properties listed to be an environmental concern to the site.

6.4 PROPERTIES NOT OF CONCERN

In our opinion, activities on the following properties are not likely to impact the site's soil or groundwater. They are listed by area, map number and grouped according to the reason they are not considered to be an environmental issue.

Map Location Numbers 2 and 15

Although these properties appear on the Calsites list they have a "no further action" status and therefore are not a concern.

Map Location Numbers 5, 20, 25, 26, 28 and 31

Given the direction of groundwater flow, these properties are not upgradient to the site and therefore are not a concern.

Map Location Number 34 (Celery Dump)

We reviewed a previous LAW report dated April, 1992 regarding the Celery Dump. It is located along Ballona Creek just south of Lincoln Boulevard. Based on the findings of this assessment and previous assessments on this parcel, there is no evidence that substantial amounts of landfill materials are currently present within soils at the site. No evidence of debris or other probable landfill material was encountered in the nine borings drilled on site during this assessment. Therefore, this property does not present a concern to the site.

6.5 SUMMARY OF RECORDS REVIEW

Please note that regulatory listings are limited and include only those sites which are known to the regulatory agencies at the time of publication to be contaminated or in the process of evaluation for potential contamination.

Our review of the above-referenced regulatory information identified two areas of environmental concern. Further discussion of these concerns is presented in Section 7.0 of this report.

7.0 CONCLUSIONS AND RECOMMENDATIONS

This assessment did not identify any areas of potential environmental concern. We found no evidence that a specific area of the corridor is on various regulatory agency lists. We do not recommend any further assessment at this time.

8.0 LIMITATIONS

The findings and opinions in this report are relevant to the dates of our site work. They should not be relied upon to represent conditions at later dates.

Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental consultants practicing in this or similar localities at the time of service. No other warranty, expressed or implied, is made as to the professional advice included in this report.

The opinions included in this report are based on information obtained during the study and on our experience. If additional information becomes available that might affect our conclusions, we request the opportunity to review the information, reassess the potential environmental concerns, and modify our opinion, if warranted.

Although this assessment has attempted to identify the potential for site contamination, potential sources of contamination may have escaped detection. They may have been overlooked because of the limited scope of this assessment, the inaccuracy of public records, or the presence of undetected and unreported environmental concerns.



9.0 INFORMATION SOURCES

Geology, Surface Drainage, and Groundwater Flow

- California Division of Conservation, Department of Oil Gas, 1986, Map No. 120.
- CDOG, 1990, Map No. W1-5.
- California Department of Water Resources, Southern District, 1961, Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County, Appendix A, Ground Water Geology, Bulletin No. 104, Reprinted April 1988.
- Los Angeles County Flood Control District, 1978, Coastal Plain Well Location Map, Fall, 1978.
- U.S. Geological Survey (USGS), 1959, Geology, Hydrology, and Chemical Character of Ground Waters in the Torrance-Santa Monica Area, California, Water-Supply Paper 1461.
- USGS, 1950, Topographic Map, 7.5 Minute Series, Venice Quadrangle.
- USGS, 1964, Topographic Map, 7.5 Minute Series, Venice Quadrangle, photorevised 1981.

Historical Review

- Aerial photographs from Rupp Aerial Photography, Inc., dated 1938, 1952, 1963, 1972, 1985, and 1992, maintained at their facility in Corona, California.
- Interview with Mr. Robert Miller.

Landfill Records

- California Integrated Waste Management Board list dated 1991.
- Los Angeles County Major Waste System map dated 1976.

Regulatory Agency Section

- "Report of Phase II Environmental Site Assessment, Former Celery Dump Site, Playa Vista Project - Parcel A, Lincoln and Culver Boulevards, Los Angeles, California, for Maguire Thomas Partners," dated April 7, 1992 (Law/Crandall, Inc. Project Number L91096FC).

OCEAN

PACIFIC

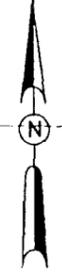
- KEY:
- 4 LINCOLN WIDENING, HUGHES TERRACE TO SEPULVEDA
 - 5 ROUTE 1 KEY INTERSECTIONS (LINCOLN/MINDANAO, LINCOLN/ROSE, LINCOLN/SEPULVEDA, LINCOLN/VENICE)
 - 8 ROUTE 90/CENTINELA
 - 9 ROUTE 90/MINDANAO EB AND WB

REFERENCE:
 THE THOMAS GUIDE, THOMAS BROS.,
 LOS ANGELES COUNTY MAP, PAGES 671, 672,
 701, 702, 1995 EDITION.

PLOT PLAN
 SCALE 1" = 2400'

SEE A J5
 1 VICTORIA HT
 2 HANSON CT
 3 GRAND VIEW AV

SEE A AZ
 1 VIA DEUCE
 2 UNION LACE MALL
 3 VORAGE CT
 4 VORAGE MALL
 5 WESTING CT
 6 WESTING MALL
 7 CHANNEL POINTE CT
 8 CHANNEL POINTE MALL
 9 VIA MARINA CT



APPENDIX A

BBL, ENVIRONMENTAL RECORD SEARCH



ENVIRONMENTAL RECORD SEARCH

for the site

HWY 90 FROM CULVER BLVD TO MARGARET AVE, LOS ANGELES

performed for

LAW / CRANDALL, INC.

11-21-1995

INTRODUCTION

This document, prepared on the request of LAW / CRANDALL, INC., reports the findings of BBL's investigation of environmental concerns in the vicinity of Hwy 90 From Culver Blvd To Margaret Ave, Los Angeles. It is divided in the following segments:

Map - showing the location of the identified sites relative to the subject site. A total of 35 separate sites were identified.

Topo Graphic Map - showing the surrounding area of the subject site.

Summary - listing the identified sites by street names.

Final Report - describing the sources investigated and the resulting findings:

Federal sources

National Priority List	no sites
CERCLIS	no sites
NFRAP	1 site
Federal Facilities	no sites
Emergency Response Notification System	1 site
Site Enforcement Tracking System	2 sites
Enforcement Docket System (DOCKET/CEETS)	1 site
C-Docket	no sites
RCRA Violators List	no sites
Federal Enforcement Dockets	no sites

California State sources

Annual Work Plan	no sites
CALSITES	6 sites
Cortese	1 site
Leaking Underground Storage Tanks	2 sites
Solid Waste Information System	no sites

Regional sources

Toxic Releases	no sites
Toxic Pits	no sites
Solid Waste Assessment Test - Regional	1 site
Well Investigation Program	no sites

Operating permits

RCRA Generators	17 sites
RCRA - TSD Facilities	no sites
SARA Title III, section 313 (TRIS)	no sites
Nuclear Regulatory Commission Licensees	no sites
PCB Waste Handlers Database	no sites
Permit Compliance System (PCS)	no sites
AIRS Facility System (AFS)	no sites
Section Seven Tracking System	1 site
FIFRA/TSCA tracking system	1 site
Federal Facilities Information System (FFIS)	no sites
Chemicals in Commerce Information System	no sites
FINDS EPA Facility Index System	no sites
Hazardous Waste Information System	12 sites
Underground Storage Tanks	7 sites

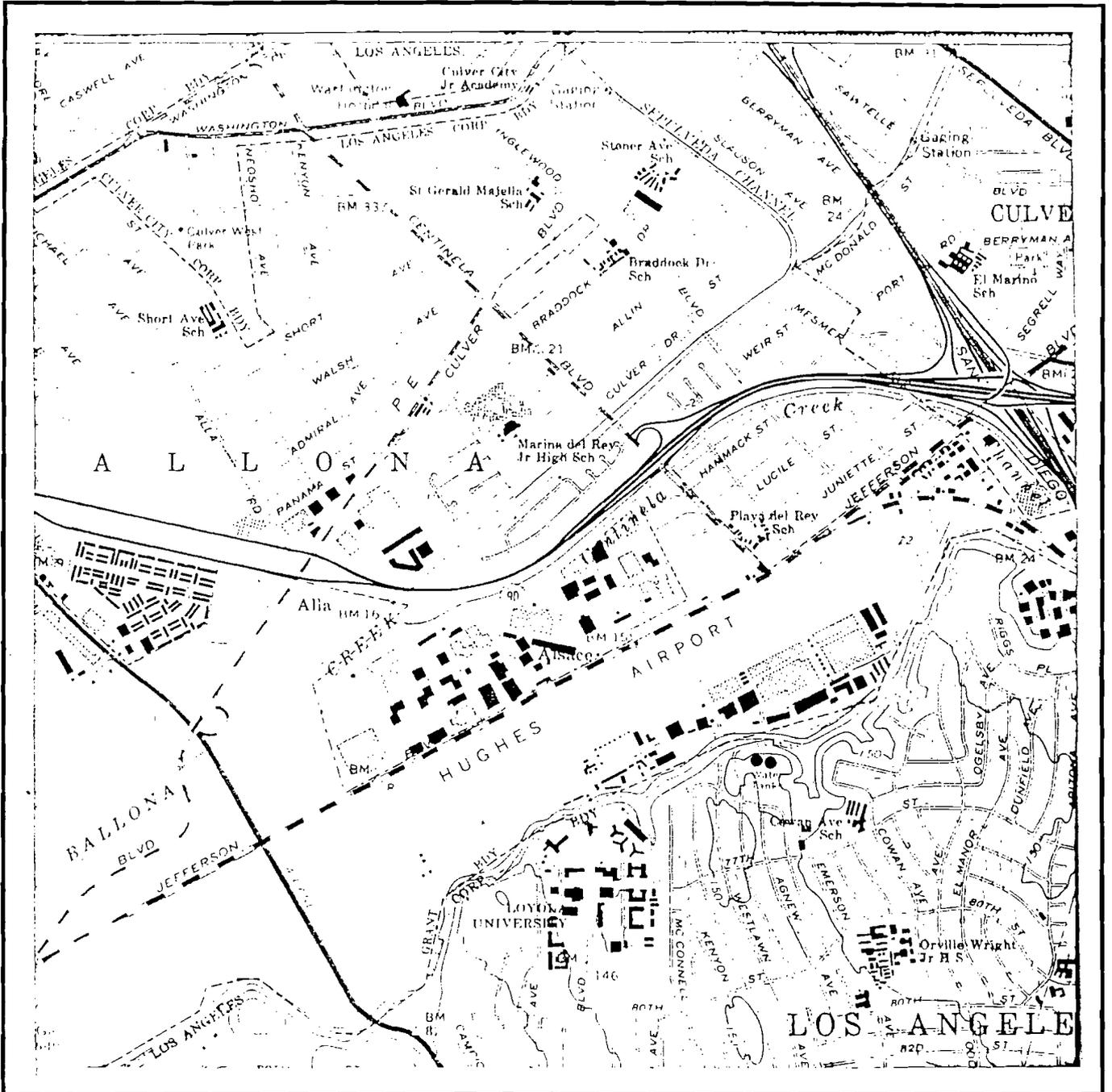


-  ENVIRONMENTAL CONCERNS - HIGH PRIORITY
-  ENVIRONMENTAL CONCERNS
-  ENVIRONMENTAL CONCERNS - WITH A 'NO FURTHER ACTION' STATUS'
-  OPERATING PERMITS ONLY

2.1 inches to 1 mile



APPROXIMATE LOCATION OF IDENTIFIED SITES IN THE VICINITY OF THE SUBJECT SITE AT HWY 90 FROM CULVER BLVD TO MARGARET AVE, LOS ANGELES



ROAD CLASSIFICATIONS

- Heavy Duty Road
- Medium Duty Road
- Light Duty Road
- Unimproved Dirt Road

Source: USGS Topographic map 7.5 minute Series

2.6 Inches to 1 mile



TOPOGRAPHIC MAP OF THE VICINITY OF THE SUBJECT SITE LOCATED AT HWY 90 FROM CULVER BLVD TO MARGARET AVE, LOS ANGELES

ENVIRONMENTAL RECORDS SEARCH

SUMMARY

LISTED BY STREET

**ENVIRONMENTAL RECORDS SEARCH FOR
HWY 90 FROM CULVER BLVD TO MARGARET AVE, LOS ANGELES**

Page: 1
Job: LAWL3544
Date: 11-22-1995

LOCATION	ADDRESS	CITY	MAP LOC DIR	SOU- RCE	STATUS
CHROMALLOY PHARMACEUTICALS INC	5353 GROSVENOR BLVD	LOS ANGELES	2	AS	NFA
CHROMALLOY PHARMACEUTICALS INC				AS	NFA
CHROMALLOY PHARMACEUTICALS INC				AS	NFA
UNKNOWN	12427 MILTON ST	LOS ANGELES	5	ER	
SCIENTIFIC DATA SYSTEMS, INC.	12640 BEATRICE ST	LOS ANGELES	13	SE	
SCIENTIFIC DATA SYSTEMS, INC.				SE	
REYNOLDS INDUSTRIES INC #2	5005 MCCONNELL AVE	LOS ANGELES	15	AS	NFA
REYNOLDS INDUSTRIES				HW	
DASHAVEYOR COMPANY, THE	5419 MCCONNELL AVE	LOS ANGELES	20	AS	SSR
MCCULLOCH CORPORATION	5433 BEETHOVEN ST	LOS ANGELES	25	LT	3B
MCCULLOCH CORP.				SE	
TRANSACTION TECHNOLOGY, INC	12959 CORAL TREE PL	LOS ANGELES	26	LT	7
TRANSACTION TECHNOLOGY, INC.				CS	WCRBT
SPRAGUE ELECTRIC CO	12870 PANAMA ST	LOS ANGELES	28	AS	SSR
WILLIAM WAHL CORPORATION	12908 PANAMA ST	LOS ANGELES	31	AS	SSR
CELERY DUMP	CULVER & LINCOLN BLVD, NW OF	MARINA DEL REY	34	SR	6
PLAYA VISTA	405 FREEWAY & 90 FREEWAY - SW OF	MARINA DEL REY		AS	SSR
PLAYA VISTA	COASTAL PROP NEAR MARINA DEL REY	MARINA DEL REY		NF	

**OPERATING PERMITS ONLY FOR
HWY 90 FROM CULVER BLVD TO MARGARET AVE, LOS ANGELES**

Page: 2
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LOCATION	ADDRESS	CITY	MAP LOCDIR	SOU- RCE	STATUS
XEROX COMPUTER SYSTEMS	5404 JANDY PL	LOS ANGELES	3	UT	93
METANETIX INC	12530 BEATRICE ST	LOS ANGELES	4	HW	
METANETIX INC				RN	L
BMW OF NORTH AMERICA	12541 BEATRICE ST	LOS ANGELES	6	HW	
BMW OF NORTH AMERICA INCORPORA				UT	87&93
BASIC DESIGN LABORATORY INC	12500 BEATRICE ST	LOS ANGELES	7	RN	
BASIC DESIGN LABORATORY INC				HW	
COMPUCORP	12540 BEATRICE ST	LOS ANGELES	8	RN	S
NATIONAL TECHNICAL SYSTEMS	12511 BEATRICE ST	LOS ANGELES	9	RN	L
FMS CORPORATION	12637 BEATRICE ST	LOS ANGELES	10	RN	L
MARINA DEL REY	5535 WESTLAWN AVE	MARINA DEL REY	11	UT	87
GTE GARAGE				HW	
GENERAL TELEPHONE CO OF CALIF				UT	93
GENERAL TELEPHONE COMPANY				UT	93
PURITAN BENNETT CORP OF CALIFO	12655 BEATRICE ST	LOS ANGELES	12	RN	L
IMAGICA USA INC	5320 MCCONNELL AVE	LOS ANGELES	14	RN	S
A REM INC	12811 CORAL TREE PL	LOS ANGELES	16	RN	
RANDALL MCANANY COMPANY	4935 MCCONNELL AVE	LOS ANGELES	17	HW	
RANDALL MCANANY COMPANY				RN	L
BOWERS MACHINING	4943 MCCONNELL AVE, NO E	LOS ANGELES	18	RN	
PAUL V WEELDEN	4943 MCCONNELL AVE	LOS ANGELES	18	UT	93
RANDALL/MCANANY CO	4943 MCCONNELL AVE, SUITE A	LOS ANGELES	18	RN	
ATEK INDUSTRIES INC	5355 MCCONNELL AVE	LOS ANGELES	19	PE	
GRANGER ASSOCIATES	5306 BEETHOVEN ST	LOS ANGELES	21	RN	L
MCCOLLOCH CORPORATION	5401 BEETHOVEN ST	LOS ANGELES	22	UT	87&93
LA PUMPING PLANT #54	5550 INGLEWOOD BLVD	BALLONA CREEK	23	RN	S
KRUPP TAYLOR USA	12800 CULVER BLVD	LOS ANGELES	24	RN	S
BAYWATCH PRODUCTION COMPANY IN	5433 BEETHOVEN ST	LOS ANGELES	25	HW	
TRANSACTION TECHNOLOGY INC	12959 CORAL TREE PL	LOS ANGELES	26	HW	
TRANSACTION TECHNOLOGY				RN	
TRANSACTION TECHNOLOGY, INC.				HW	
QUOTRON SYSTEMS INC	5454 BEETHOVEN ST, PO BOX 66914	LOS ANGELES	27	RN	S
QUOTRON SYSTEMS INC	5454 BEETHOVEN ST, PO BOX # 66914	LOS ANGELES	27	HW	
QUOTRON SYSTEMS INC	5454 BEETHOVEN ST	LOS ANGELES	27	HW	
SEARS, PACIFIC CENTRAL SERVICE	12870 CULVER BLVD	LOS ANGELES	29	UT	87
SEARS PACIFIC CENTRAL SERV				RN	
COMPUTER PROCESSING	12960 CORAL TREE PL	LOS ANGELES	30	UT	93
AMERICAN MEDICAL INTERNATIO				HW	
TELEDYNE MICROELECTRONICS	12984 PANAMA ST	LOS ANGELES	32	DO	
TELEDYNE MICROELECTRONICS				HW	
TELEDYNE MICROELECTRONICS				RN	L
TELEDYNE MICROELECTRONICS				FT	
ITOYA OF AMERICA	4729 ALLA RD	MARINA DEL REY	33	HW	

REFERENCED SOURCES

Job : LAWL3544
Date: 11-22-1995

FEDERAL SOURCES

NL NATIONAL PRIORITY LIST (09/20/95)
CC CERCLIS (09/20/95)
NF NFRAP (09/20/95)
FF FEDERAL FACILITIES (09/20/95)
ER EMERGENCY RESPONSE NOTIFICATION SYSTEM (1989-1994)
SE SITE ENFORCEMENT TRACKING SYSTEM (07/18/95)
DO ENFORCEMENT DOCKET SYSTEM (DOCKET/CDETS)
CD C-DOCKET
RV RCRA VIOLATORS LIST (09/20/94)
FD FEDERAL ENFORCEMENT DOCKETS

CALIFORNIA STATE SOURCES

BP ANNUAL WORK PLAN (12/23/94)
BKLG Backlog DLST Delisted from the AWP AWP Active AWP site
REFRW Referred to the RWQB COM Certified, maint mode REFRG Referred to RCRA
CERT Certified after remediation

AS CALSITES (12/23/94)
PEARL Prel Assmnt Low priority NFA No Further Action for DTSC PEARM Prel Assmnt Medium priority
EPA EPA is the lead agency PEARH Prel Assmnt High priority RCRA Mitigated under the RCRA
SSR Site Screening Required RWQCB Mitigated under RWQB HRR Hazard Ranking Required
CNTY County lead PRPR PRP Search Required OAL Other Agency lead
RED Closed Case

CS CORTESE
WRCBT Tank leak DHS3 Cont large well DHS1 Abandoned haz waste site
DHS5 section 25356 DHS2 Cont small well CWMB Disposal site

LT LEAKING UNDERGROUND STORAGE TANKS (05/95)
0 No action 3B Prel site assmnt underway 7 Remedial action underway
1 Leak being confirmed 5C Pollution characterization 8 Post remedial action monitoring
3A Site workplan submitted 5R Remediation plan 9 Case closed

SS SOLID WASTE INFORMATION SYSTEM (12/01/94)

REGIONAL SOURCES

NT TOXIC RELEASES
TP TOXIC PITS
SR SOLID WASTE ASSESSMENT TEST - REGIONAL
WP WELL INVESTIGATION PROGRAM

OPERATING PERMITS

RN RCRA GENERATORS (09/01/94)
L Large Generator T Transporter S Small Generator

TD RCRA - TSD FACILITIES (04/11/94)
I Incinerator D Land Disposal T Storage/Treatment

SA SARA TITLE III, SECTION 313 (TRIS)
NC NUCLEAR REGULATORY COMMISSION LICENSEES
PB PCB WASTE HANDLERS DATABASE
PC PERMIT COMPLIANCE SYSTEM (PCS)
AF AIRS FACILITY SYSTEM (AFS)
PE SECTION SEVEN TRACKING SYSTEM
FT FIFRA/TSCA TRACKING SYSTEM
FI FEDERAL FACILITIES INFORMATION SYSTEM (FFIS)
CI CHEMICALS IN COMMERCE INFORMATION SYSTEM
FN FINDS EPA FACILITY INDEX SYSTEM
HW HAZARDOUS WASTE INFORMATION SYSTEM
UT UNDERGROUND STORAGE TANKS

ENVIRONMENTAL RECORDS SEARCH

LISTED BY SOURCE

INTRODUCTION

BBL has used its best effort but makes no claims as to the completeness or accuracy of the referenced government sources or the completeness of the search. Our records are frequently updated but only as current as their publishing date and may not represent the entire field of known or potential hazardous waste or contaminated sites. To ensure complete coverage of the subject property and surrounding area, sites may be included in the list if there is any doubt as to the location because of discrepancies in map location, zip code, address, or other information in our sources. For additional information call 619 793-0641.

The following government sources have been searched for sites within one mile radius, unless otherwise stated, of the subject location.

FEDERAL SOURCES

NPL National Priority List

EPA has prioritized sites with significant risk to human health and the environment. These sites receive remedial funding under the Comprehensive Environmental Response Conservation and Liability Act (CERCLA).

No listings within the vicinity of the subject site.

CERCLIS Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS is a data base used by the EPA to track activities conducted under the Comprehensive Environmental Response and Liability Act CERCLA (1980) and the amendment the Superfund Amendments and Reauthorization Act SARA (1986).

Sites to be included are identified primarily by the reporting requirements of hazardous substances Treatment, Storage and Disposal(TSD) facilities and releases larger than specific Reportable Quantities(RQ), established by EPA.

Using the National Oil and hazardous Substance Pollution Contingency Plan(National Contingency Plan) the EPA set priorities for cleanup.

The EPA rates National Contingency Plan sites according to a quantitative Hazard Ranking System(HRS) based on the potential health risk via any one or more pathways: groundwater, surface water, air, direct contact, and fire/explosion.

The EPA and state agencies seek to identify potentially responsible parties(PRP) and ultimately Responsible Parties(RP) who can be required to finance cleanup activities, either directly or through reimbursement of federal Superfund expenditures.

No listings within the vicinity of the subject site.

NFRAP No Further Remedial Action Planned sites (CERCLIS)

As of February 1995, CERCLIS sites designated 'No Further Remedial Action Planned' NFRAP have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the site being placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration.

EPA has removed these NFRAP sites from CERCLIS to lift unintended barriers to the redevelopment of these properties. This policy change is part of EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens promote economic redevelopment of unproductive urban sites.

This list has been researched within the vicinity of the subject site.

Site: PLAYA VISTA
Address: COASTAL PROP NEAR MARINA DEL REY
City: MARINA DEL REY
Status: EPA ID#: CAD982418139

FEDFAC Federal Facilities

As part of the CERCLA program, federal facilities with known or suspected environmental problems, the Federal Facilities Hazardous Waste Compliance Docket is tracked separately to comply with a Federal Court order.

No listings within the vicinity of the subject site.

ERNS Emergency Response Notification System

The ERNS is a national computer database used to store information on unauthorized releases of oil and hazardous substances. The program is a cooperative effort of the Environmental Protection Agency, the Department of Transportation Research and Special Program Administration's John Volpe National Transportation System Center and the National Response Center.

There are primarily five Federal statutes that require release reporting: the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) section 103; the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304; the Clean Water Act of 1972 (CWA) section 311(b)(3); and the Hazardous Material Transportation Act of 1974 (HMTA) section 1808(b).

This list has been researched within the vicinity of the subject site.

Site: UNKNOWN
Address: 12427 MILTON ST
City: LOS ANGELES
Map Loc: 5
Status: 9000015536 WASTE OIL/LUBRICANTS - POSS. CO (05/18
12427 MILTON STREET
DUMP TRUCK OWNERS WORK ON TRUCK AND LEAVE OIL ON THE GROUND
NO ACTION TAKEN
NO ACTION TAKEN

SETS Site Enforcement Tracking System (SETS)

When expanding Superfund monies at a CERCLA (Comprehensive Environmental Response, Compensation and Liability Act) Site, EPA must conduct a search to identify parties with potential financial responsibility for remediation of uncontrolled hazardous waste sites. EPA regional Superfund Waste Management Staff issue a notice letter to the potentially responsible party (PRP). The status field contains the EPA ID number and name of the site where the actual pollution occurred.

This list has been researched within the vicinity of the subject site.

Site: SCIENTIFIC DATA SYSTEMS, INC.
Address: 12640 BEATRICE ST
City: LOS ANGELES
Map Loc: 13
Status: CAT080012826 STRINGFELLOW

Site: SCIENTIFIC DATA SYSTEMS, INC.
Address: 12640 BEATRICE ST
City: LOS ANGELES
Map Loc: 13
Status: CAT080012826 STRINGFELLOW

Site: MCCULLOCH CORP.
Address: 5433 BEETHOVEN ST
City: LOS ANGELES
Map Loc: 25
Status: CAT080012024 OPERATING INDUSTRIES INC LANDFILL

DO Enforcement Docket System (DOCKET)/Consent Decree Tracking System (CDETS)

DOCKET tracks civil judicial cases against environmental polluters, while CDETS processes court settlements, called consent decrees.

This list has been researched within the vicinity of the subject site.

Site: TELEDYNE MICROELECTRONICS
Address: 12964 PANAMA ST
City: LOS ANGELES
Map Loc: 32
Status: Permit id#: CAD009587700
SIC Codes: 3674

CD Criminal Docket System (C-DOCKET)

The Criminal Docket System is a comprehensive automated system for tracking criminal enforcement actions. C-Docket handles data for all environmental statues and ttracks enforcement actions from the initial stages of investigations through conclusion.

No listings within the vicinity of the subject site.

RCRA RCRA Violators List

The Resource Conservation and Recovery Act of 1976 provides for "cradle to grave" regulation of hazardous wastes. RCRA requires regulation of hazardous waste generators, transporters, and storage/treatment/disposal sites. Evaluation to potential violations, ranging from manifest requirements to hazardous waste discharges, is typically conducted by the US EPA.

If enforcement is required, it is typically delegated to a state agency.

No listings within the vicinity of the subject site.

FD Federal Enforcement Dockets

The US EPA, Office of Enforcement, maintains a list of sites under enforcement by the US EPA.

No listings within the vicinity of the subject site.

CALIFORNIA STATE SOURCES

AW Annual Work Plan (previously known as Bond Expenditure Plan)

The California Health and Safety code, as amended by AB 129, requires the California Environmental Protection Agency to develop a site-specific expenditure plan as the basis for an appropriation of California Hazardous Substance Cleanup Bond Act of 1984 funds.

The Agency is also required to update the report annually and report any significant adjustments to the Legislature on an ongoing basis. The plan identifies California hazardous waste sites targeted for cleanup by responsible parties, the California and the Federal Environmental Protection Agency over the next five years.

Status Codes:	BKLG	Backlog, Potential Annual Work Plan Site
	AWP	Active Annual Work Plan site
	COM	Certified, but still in Operation & Maintenance mode
	CERT	Certified after remediation
	DLST	Delisted from the AWP
	REFRC	Former AWP site referred to RCRA
	REFRW	Former AWP site referred to the Regional Water Quality Board

No listings within the vicinity of the subject site.

CALS CALSITES

The Historical Abandoned Site Survey Program identified certain potential hazardous waste sites. The identification of these sites were generally not made via sampling and site characterization, they were made as a result of file searches and windshield surveys. Some of the sites may have had a site inspection with sampling.

The information has been compiled into this database by the California Environmental Protection Agency, Department of Toxic Substance Control (DTSC) in accordance with Section 25359.6 of the California Health and Safety Code.

This database was previously known as The Abandoned Sites Program Information System ASPIS.

Status Codes:	PEARL	Preliminary Endangerment Assessment Required.Low priority
	PEARM	Preliminary Endangerment Assessment Required.Medium priority
	PEARH	Preliminary Endangerment Assessment Required.High priority
	SSR	Site Screening Required
	HRR	Hazard Ranking Required
	PRPR	Potential Responsible Party Search Required
	NFA	No Further Action for DTSC
	EPA	EPA is the lead agency
	RCRA	Mitigated under the RCRA permitting program
	RWQCB	Mitigated under the lead of the Regional Water Quality Board
	CNTY	County lead
	OAL	Other Agency lead
	RED	Closed Case marked for removal from list

This list has been researched within the vicinity of the subject site.

Site: CHROMALLOY PHARMACEUTICALS INC
 Address: 5353 GROSVENOR BLVD
 City: LOS ANGELES
 Map Loc: 2
 Status: NFA - No Further Action for DTSC
 03/27/80: FACILITY IDENTIFIED IW SURVEY QUESTIONNAIRE 12580QUESTIONNAIRE RECEIVEDOUT
 OF BUSINESS 10-31-79 PER QNAIRE
 01/06/83: FACILITY DRIVE-BY DRIVE-BY. PRIVATE HOMES ACROSS ST. NEXTTO OPEN DIRT LOT.
 VEG NON-STRESSED.FENCED, PAVED, WELL MAINTAINED. BLDGAPPEARS TO BE
 RELATIVELY NEW. NO SIGN.

Site: REYNOLDS INDUSTRIES INC #2
 Address: 5005 MCCONNELL AVE
 City: LOS ANGELES
 Map Loc: 15
 Status: NFA - No Further Action for DTSC
 01/06/83: FACILITY IDENTIFIED LA CHAM OF COMM BUS DIR 1971-72MFG
 CONNECTORS/ELECTRONIC COMPONENTS
 QUESTIONNAIRE SENT
 02/01/83: FACILITY DRIVE-BY LARGE INDUST BLDG. INDUST AREA. AT END OF CUL-DE-SAC. VEG
 NON-STRESSED. NO PROB
 02/14/83: QUEST RECEIVED. PROD) HI DENSITY-ENERGYCAPACITORS,HI VOLT
 CONNECTOR/CABLE ASSE,ELECTRON BRIDGEWIRE/FIRING.YR OF OPER)
 1948-PRESENT. 155 EMPLOYEESAT LOC. WASTE) ETCHANTS-HAULED OFFSITEOTHER
 LOC) 2311 SKYWAY DRIVE/STA MARIA,3420 FOSTORIA WAY/SAN RAMON
 05/11/83: RATIONALE FOR NFA NO PROBLEM BASED ON DRIVEBY/QUEST

Site: DASHAVEYOR COMPANY, THE
 Address: 5419 MCCONNELL AVE
 City: LOS ANGELES
 Map Loc: 20
 Status: SSR - Site Screening Required
 01/26/83: FACILITY IDENTIFIED L.A. CHAM OF COMM BUS DIR 1971MFG MATERIAL HANDLING
 EQUIPMENT
 02/09/83: NO CURRENT TELEPHONE LISTING
 04/26/83: FACILITY DRIVE-BY QUOTRON NOW ON SITE. INSUDT AREA. PAVEDPARKING IN FRONT,
 CLEAN. VEG NON-STRESSDNO VISIBLE PITS/PONDS/SUMPSSEND QUESTIONNAIRE TO
 QUOTRON

Site: SPRAGUE ELECTRIC CO
 Address: 12870 PANAMA ST
 City: LOS ANGELES
 Map Loc: 28
 Status: SSR - Site Screening Required
 01/06/83: FACILITY IDENTIFIED LA CHAM OF COMM BUS DIR 1971MFG ELECTRONIC COMPONENTS
 01/26/83: NEW LOC) 11222 S LA CIENEGA/INGLEWD
 01/31/83: QUESTIONNAIRE SENT TO NEW LOCATION
 03/25/83: QUEST RECEIVED. PARENT ORG) SPRAGUEELECTRIC CO/MA. NOT KNOWN OF IW
 GENERATE
 04/26/83: FACILITY DRIVE-BY MAY BE PART OF TELEDYNE OR ABANDONED.LIGHT
 INDUST/RESIDENT AREA. PAVED FENCEDSTAGNANT H2O IN LOADING RAMP. DOCK IVEG
 NON-STRESSED. NO VISIBLE PROBLEM

Site: WILLIAM WAHL CORPORATION
 Address: 12908 PANAMA ST
 City: LOS ANGELES
 Map Loc: 31
 Status: SSR - Site Screening Required
 12/06/82: FACILITY IDENTIFIED L.A. CHAM OF COMM BUS DIR 1972
 12/08/82:

12/14/82: TIMING DEVICE/MISSILE COMPONENT MANUFAC.
NEW LOC) 5750 HANNUM ST. CULVER CTY
02/01/83: SENT QUEST TO NEW LOCATION.
02/14/83: FACILITY DRIVE-BY INDUSTRIAL/RESIDENTIAL AREA. PAVED FENCEPARKING. MAY BE PART OF TELEDYNE. VEGNON-STRESSED. NO VISIBLE PROBLEM

Site: PLAYA VISTA
Address: 405 FREEWAY & 90 FREEWAY - SW OF
City: MARINA DEL REY
Status: SSR - Site Screening Required
07/04/76: INTERSECTED BY THE BALLONA CHANNEL -BOUNDED BY THE SAN DIEGO 405 FREEWAYTO THE EAST, THE MARINA 90 FREEWAY TOTHE NORTHEAST, AND THE PACIFIC OCEAN TOTHE WEST
12/19/89: FACILITY IDENTIFIED EPA PRELIMINARY ASSESSMENTEPA COMPLETED PRELIMINARY ASSESSMENT ANDRECOMMEND NO FURTHER ACTIONSTATE RECOMMENDATION IS SITE SCREENING.

CORTESE State of California Office of Planning and Research

This database is a consolidation of information from various sources. It is maintained by the State Office of Planning and Research and lists potential and confirmed hazardous waste or substances sites. This source was last updated by the government in November 1990.

Status Codes: WRCBT Tank leaks. Compiled by Water Resource Control Board
DHS1 Abandoned hazardous waste site. Compiled by Toxic Substance Control Div. of DH
DHS2 Contaminated public water drinking wells serving less than 200 connections. Compi
DHS3 Contaminated public water drinking wells serving more than 200 connections
DHS5 Sites pusuant to section 25356 of the Health and Safety Code (see BEP)
CWMB Solid waste disposal sites with known migration of hazardous waste

This list has been researched within the vicinity of the subject site.

Site: TRANSACTION TECHNOLOGY, INC.
Address: 12959 CORAL TREE PL
City: LOS ANGELES
Map Loc: 26
Status: WCRBT - Leaking Tank

LUST(S) Leaking Underground Storage Tanks - California State

The Leaking Underground Storage Tanks Information System is maintained by the State Water Resource Board pursuant to Section 25295 of the Health and Safety Code.

Status Codes: 0 No action
1 Leak being confirmed
3A Prel site assessment workplan submitted
3B Prel site assessment underway
5C Pollution characterization
5R Remediation plan
7 Remedial action underway

8 Post remedial action monitoring
9 Case closed

This list has been researched within the vicinity of the subject site.

Site: MCCULLOCH CORPORATION
Address: 5433 BEETHOVEN ST
City: LOS ANGELES
Map Loc: 25
Status: 3B - Prelim Site Assessment underway.

Gasoline was reported to have leaked on 06/20/91. The case is managed by the Regional Water Quality Board was last reviewed on 10/18/91.
- Preliminary Site Assessment was started on 07/20/91.

Site: TRANSACTION TECHNOLOGY, INC
Address: 12959 CORAL TREE PL
City: LOS ANGELES
Map Loc: 26
Status: 7 - Remedial Action underway.

Solvent was reported to have leaked on 03/16/88. The contaminated soil has been excavated and disposed in an approved site. The case is managed by the Regional Water Quality Board, and was last reviewed on 10/12/92.
- Pollution characterization was started on 04/04/88.

SWIS Solid Waste Information System

As legislated under the Solid Waste Management and Resource Recovery Act of 1972, the California Waste Management Board maintains lists of certain facilities, i.e. Active solid waste disposal sites, Inactive or Closed solid waste disposal sites and Transfer facilities.

No listings within the vicinity of the subject site.

REGIONAL SOURCES

NT Toxic Releases

The California Regional Water Quality Control Boards or local Department of Health Services keeps track of toxic releases to the environment. These lists are known as Unauthorized Releases, Spill, Leaks, Investigations and Cleanups (SLIC), Non-Tank Releases, Toxics List or similar, depending on the local agency.

No listings within the vicinity of the subject site.

TPC Toxic Pits

The Toxic Pits Clean-Up Act (Katz Bill) places strict limitations on the discharge of liquid hazardous wastes into surface impoundments, toxic ponds, pits and lagoons. Regional Water Quality Control Boards are required to inspect all surface impoundments annually, in addition, every facility was required to file a Hydrogeological Assessment Report. Recent legislation allows the Department of Health Services to exempt facilities that closed on or before December 31, 1985, if a showing is made that no significant environmental risk remains (AB1046).

Special exemption provisions have been created for surface impoundments that receive mining wastes.

No listings within the vicinity of the subject site.

SWAT(R) Solid Waste Assessment Test - Regional

This program, provided for under the Calderon legislation (Section 13273 of the Water Code), requires that disposal sites with more than 50,000 cubic yards of waste provide sufficient information to the regional water quality control board to determine whether or not the site has discharged hazardous substances which will impact the environment.

Site operators are required to file Solid Waste Assessment Test reports on a staggered basis. Operators of the 150 highest ranking (Rank 1) sites were required to submit Solid Waste Assessment Tests by July 1, 1987, Rank 2 in 1988 and so on.

Operators submit water quality tests to the Regional Water Quality Control Board, describing surface and groundwater quality and supply; and the geology within 1 mile of the site. Air quality tests are submitted to the local Air Quality Management District or Air Pollution Control District.

Status Codes: Facilities or sites are ranked within each region on a scale 1-15 according to priority. This list has been researched within the vicinity of the subject site.

Site: CELERY DUMP
 Address: CULVER & LINCOLN BLVD, NW OF
 City: MARINA DEL REY
 Map Loc: 34
 Status: Priority Rank 6

WIP Well Investigation Program

The Well Investigation Program (AB1803) identifies groundwater that is already contaminated and empowers the California Department of Health Services and local health officers to order ongoing monitoring programs. The focus of this program is to monitor and protect drinking water.

No listings within the vicinity of the subject site.

OPERATING PERMITS

Various agencies issue operating permits or regulate the handling, movements, storage and disposal of hazardous materials and require mandatory reporting. The inclusion in this section does not imply that an environmental problem exists presently or has in the past.

The sources referenced below have been searched within half a mile radius, unless otherwise stated, of the subject site.

RCRA-G Resource Conservation and Recovery Information System - Generators

The Environmental Protection Agency regulates generators of hazardous material through the Resource Conservation and Recovery Act (RCRA). All hazardous waste generators are required to notify EPA of their existence by submitting the Federal Notification of Regulated Waste Activity Form (EPA Form 8700-12) or a state equivalent form. The notification form provides basic identification information and specific waste activities.

Status Codes: L - Generators who generate at least 1000 kg/mo of non-acutely hazardous waste (or 1 kg/mo of acutely hazardous waste).
S - Generators who generate 100 kg/mo but less than 1000 kg/mo of non-acutely hazardous w
T - Transporter.

This list has been researched within the vicinity of the subject site.

Site: METANETIX INC
Address: 12530 BEATRICE ST
City: LOS ANGELES
Map Loc: 4
Status: L - Large Generator
Permit id#: CAD982346181
Organics:
Unspecified solvent mixture (89: 1.45 ton)

Site: BASIC DESIGN LABORATORY INC
Address: 12500 BEATRICE ST
City: LOS ANGELES
Map Loc: 7
Status: Permit id#: CAD982037509
SIC Codes: 3674
Organics:
Halogenated solvents (91: .2 ton)

Site: COMPUCORP
Address: 12540 BEATRICE ST
City: LOS ANGELES
Map Loc: 8
Status: S - Small Generator
Permit id#: CAD981985021

Site: NATIONAL TECHNICAL SYSTEMS
Address: 12511 BEATRICE ST
City: LOS ANGELES
Map Loc: 9
Status: L - Large Generator
Permit id#: CAD981444151

Site: FMS CORPORATION
Address: 12637 BEATRICE ST
City: LOS ANGELES
Map Loc: 10
Status: L - Large Generator
Permit id#: CAD982499824
SIC Codes: 5088 3714 3629

Site: PURITAN BENNETT CORP OF CALIFO
Address: 12655 BEATRICE ST
City: LOS ANGELES
Map Loc: 12
Status: L - Large Generator
Permit id#: CAT080010465

Site: IMAGICA USA INC
Address: 5320 MCCONNELL AVE
City: LOS ANGELES
Map Loc: 14
Status: S - Small Generator
Permit id#: CAD983655242

Site: A REM INC
Address: 12811 CORAL TREE PL
City: LOS ANGELES
Map Loc: 16
Status: Permit id#: CA0000135087

Site: RANDALL MCANANY COMPANY
Address: 4935 MCCONNELL AVE
City: LOS ANGELES
Map Loc: 17
Status: L - Large Generator
Permit id#: CAD982486391
SIC Codes: 1721
Organics:
Oxygenated solvents(91: 1.31 ton)
Latex waste(91: 1.34 ton)
Other organic solids(91: 2.66 ton)

Site: BOWERS MACHINING
Address: 4943 MCCONNELL AVE, NO E
City: LOS ANGELES
Map Loc: 18
Status: Permit id#: CA0000269571

Site: RANDALL/MCANANY CO
Address: 4943 MCCONNELL AVE, SUITE A
City: LOS ANGELES
Map Loc: 18
Status: Permit id#: CAD981161524
SIC Codes: 1721
Organics:
Unspecified solvent mixture (89: .91 ton)
Off-specification, aged or surplus organics (89: 1.26 ton)

Site: GRANGER ASSOCIATES
Address: 5306 BEETHOVEN ST
City: LOS ANGELES
Map Loc: 21
Status: L - Large Generator
Permit id#: CAD981667983

Site: LA PUMPING PLANT #54
Address: 5550 INGLEWOOD BLVD
City: BALLONA CREEK
Map Loc: 23
Status: S - Small Generator
Permit id#: CAD981987175

Site: KRUPP TAYLOR USA
Address: 12800 CULVER BLVD
City: LOS ANGELES
Map Loc: 24
Status: S - Small Generator
Permit id#: CAD981985716
SIC Codes: 7331

Site: TRANSACTION TECHNOLOGY
Address: 12959 CORAL TREE PL
City: LOS ANGELES
Map Loc: 26
Status: Permit id#: CAD982034985
SIC Codes: 3571
Miscellaneous:
Contaminated soil (89: 1.5 ton)

Site: QUOTRON SYSTEMS INC
Address: 5454 BEETHOVEN ST, PO BOX 66914
City: LOS ANGELES
Map Loc: 27

Status: S - Small Generator
Permit id#: CAD981985518
SIC Codes: 7389
Organics:
Halogenated solvents(91: .41 ton)
Unspecified solvent mixture(89: .6 ton)
Miscellaneous:
Photochemical waste(89: .45 ton)

Site: SEARS PACIFIC CENTRAL SERV
Address: 12870 CULVER BLVD
City: LOS ANGELES
Map Loc: 29
Status: Permit id#: CAD980892210
SIC Codes: 7629

Site: TELEDYNE MICROELECTRONICS
Address: 12964 PANAMA ST
City: LOS ANGELES
Map Loc: 32
Status: L - Large Generator
Permit id#: CAD009587700
SIC Codes: 3674
Inorganics:
Alkaline solution without metals (PH > 12.5)(91: .62 ton)
Aqueous solution with metals above restricted levels(89: .34 91: 2.77 ton)
Unspecified aqueous solution(91: .12 ton)
Organics:
Halogenated solvents(89: 9.92 91: 6.64 ton)
Oxygenated solvents(89: 4.55 91: 6.82 ton)
Waste oil and mixed oil(89: .21 91: 9.58 ton)
Other organic solids(89: 13.75 91: 15.37 ton)
California Restricted Wastes:
Liquids with cyanides > 1000 mg/l(89: 1.78 91: .61 ton)
Liquids with chromium(IV) > 500mg/l(89: .16 ton)
Liquids with halogenated org > 1000 mg/l(91: .76 ton)

RCRA-D Resource Conservation and Recovery Information System - Treatment, Storage & Disposal

The Environmental Protection Agency regulates the treatment, storage and disposal of hazardous material through the Resource Conservation and Recovery Act (RCRA). All hazardous waste TSD facilities are required to notify EPA of their existence by submitting the Federal Notification of Regulated Waste Activity Form (EPA Form 8700-12) or a state equivalent form as well as part A (EPA form 8700-23) and Part B of their Hazardous Waste Permit Application.

Status Codes: I Incinerator
T Storage/Treatment facility other than Incinerator
D Land Disposal Facility

No listings within the vicinity of the subject site.

SARA SARA Title III,section 313 (TRIS)

Title III of the Superfund Amendments and Reauthorization Act,Section 313, also known as Emergency Planning and Community Right-to-Know Act of 1986 requires owners or operators of facilities with more than 10 employees and are listed under Standard Industrial Classification(SIC) Codes 20 through 39 to report the manufacturing, processing or use of more than a threshold of certain chemical or chemical categories listed under section 313. This data base is also known as Toxic Release Information System (TRIS).

No listings within the vicinity of the subject site.

NC Nuclear Regulatory Commission Licensees

The Nuclear Regulatory Commission, Office of Nuclear Material Safety and Safeguards has been mandated (10 CFR Ch 1.42) to protect the public health and safety, the common defense and security, and the environment by licensing, inspection, and environmental impact assessment for all nuclear facilities and activities, and for the import and export of special nuclear material.

No listings within the vicinity of the subject site.

PB PCB Waste Handlers Database

The U.S. Environmental Protection Agency tracks generators, transporters, commercial stores and/or brokers and disposers of PCB's in accordance with the Toxic Substance Control Act.

No listings within the vicinity of the subject site.

PCS Permit Compliance System

PCS is a database which contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS was developed by The U.S. Environmental Protection Agency to meet the information needs of the NPDES program under the Clean Water Act. PCS tracks permit, compliance, and enforcement states of NPDES facilities.

No listings within the vicinity of the subject site.

AFS AIRS Facility System

AFS contains emissions and compliance data on air pollution point sources tracked by the U.S. EPA and state and local environmental regulatory agencies. There are seven "criteria pollutants" for which data must be reported to EPA and stored in AIRS: PM10 (particulate matters less than 10 microns in size), carbon monoxide, sulfur dioxide, nitrogen dioxide, lead, reactive volatile organic compounds (VOC), and ozone.

AFS replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aeromatic Data (SAROAD).

No listings within the vicinity of the subject site.

PE Section Seven Tracking System (SSTS)

SSTS evolved from the FIFRA and TSCA Enforcement System (FATES). SSTS tracks the registration of all pesticide producing establishments and tracks annually the types and amounts of pesticides, active ingredients, and devices that are produced, sold or distributed each year.

This list has been researched within the vicinity of the subject site.

Site: ATEK INDUSTRIES INC
Address: 5355 MCCONNELL AVE
City: LOS ANGELES
Map Loc: 19
Status: Permit id#: CAD981670771

FIFRA FIFRA/TSCA Tracking System/ National Compliance Database (FTTS/NCDB)

NCDB supports implementation of the Federal Insecticide, Fungicide and Rodenticide Control Act (FIFRA) and the Toxic Substance Control Act (TSCA).

This list has been researched within the vicinity of the subject site.

Site: TELEDYNE MICROELECTRONICS
Address: 12964 PANAMA ST
City: LOS ANGELES
Map Loc: 32
Status: Permit id#: CAD009587700
SIC Codes: 3674

FI Federal Facilities Information System (FFIS)

Federal Facilities Information System (FFIS) contains a list of all Treatment Storage and Disposal Facilities (TSDs) owned and operated by federal agencies.

No listings within the vicinity of the subject site.

CI Chemicals in Commerce Information System (CICIS)

Chemicals in Commerce Information System contains an inventory of chemicals manufactured in commerce or imported for Toxic Substances Control Act regulated commercial purposes. CICIS allows EPA to maintain a comprehensive listing of over 70,000 chemical substances that are manufactured or imported and are regulated under TSCA.

No listings within the vicinity of the subject site.

FN FINDS EPA Facility Index System

The U.S. Environmental Protection Agency maintains an index system of all facilities which are regulated or have been assigned an identification number for other purposes.

Facilities that have been reported elsewhere in this report will not be included in the listing below.

No listings within the vicinity of the subject site.

HWIS Hazardous Waste Information System

The Department of Toxic Substance Control, California Environmental Protection Agency, maintains a data base keeping track of the movement and disposal of hazardous waste. The data is used to support the Tanner legislation, AB 2948.

Status Codes: EPA Facility Permit Number
This list has been researched within the vicinity of the subject site.

Site: METANETIX INC
Address: 12530 BEATRICE ST
City: LOS ANGELES
Map Loc: 4
Status: EPA ID#: CAD982346181

Organics:
Unspecified solvent mixture (89: 1.45 ton)

Site: BMW OF NORTH AMERICA
Address: 12541 BEATRICE ST
City: LOS ANGELES
Map Loc: 6
Status: EPA ID#: CAD981378417

Inorganics:
Unspecified aqueous solution (91: .22 ton)

Site: BASIC DESIGN LABORATORY INC
Address: 12500 BEATRICE ST
City: LOS ANGELES
Map Loc: 7
Status: EPA ID#: CAD982037509

Organics:
Halogenated solvents (91: .2 ton)

Site: GTE GARAGE
Address: 5535 WESTLAWN AVE
City: LOS ANGELES
Map Loc: 11
Status: EPA ID#: CAD981394596

Organics:
Hydrocarbon solvents(89: .26 ton)
Unspecified oil containing waste(89: 1.25 ton)

Site: REYNOLDS INDUSTRIES
Address: 5005 MCCONNELL AVE
City: LOS ANGELES
Map Loc: 15
Status: EPA ID#: CAD981369705

Organics:
Unspecified solvent mixture(91: 1.14 ton)
Waste oil and mixed oil(89: 2.29 91: 1.83 ton)

Site: RANDALL MCANANY COMPANY
Address: 4935 MCCONNELL AVE
City: LOS ANGELES
Map Loc: 17
Status: EPA ID#: CAD982486391

Organics:
Oxygenated solvents(91: 1.31 ton)
Latex waste(91: 1.34 ton)
Other organic solids(91: 2.66 ton)

Site: BAYWATCH PRODUCTION COMPANY IN
Address: 5433 BEETHOVEN ST
City: LOS ANGELES
Map Loc: 25
Status: EPA ID#: CAL000060847

Organics:
Unspecified solvent mixture(91: .41 ton)

Site: TRANSACTION TECHNOLOGY INC
Address: 12959 CORAL TREE PL
City: LOS ANGELES
Map Loc: 26
Status: EPA ID#: CAC000558272

Inorganics:
Aqueous solution with total organic residues less than 10%(91: 1.04 ton)

Site: TRANSACTION TECHNOLOGY, INC.
Address: 12959 CORAL TREE PL
City: LOS ANGELES
Map Loc: 26
Status: EPA ID#: CAD982034985

Miscellaneous:
Contaminated soil(89: 1.5 ton)

Site: QUOTRON SYSTEMS INC
Address: 5454 BEETHOVEN ST, PO BOX # 66914
City: LOS ANGELES
Map Loc: 27
Status: EPA ID#: CAD981985518

Organics:
Halogenated solvents(91: .41 ton)
Unspecified solvent mixture(89: .6 ton)
Miscellaneous:
Photochemical waste(89: .45 ton)

Site: QUOTRON SYSTEMS INC
Address: 5454 BEETHOVEN ST
City: LOS ANGELES
Map Loc: 27
Status: EPA ID#: CAC000614048

Inorganics:
Asbestos containing waste(91: 29.71 ton)

Site: AMERICAN MEDICAL INTERNATIO
Address: 12960 CORAL TREE PL
City: LOS ANGELES
Map Loc: 30
Status: EPA ID#: CAC000617424

Organics:
Waste oil and mixed oil(91: .62 ton)

Site: TELEDYNE MICROELECTRONICS
Address: 12964 PANAMA ST
City: LOS ANGELES
Map Loc: 32
Status: EPA ID#: CAD009587700

Inorganics:
Alkaline solution without metals (PH > 12.5)(91: .62 ton)
Aqueous solution with metals above restricted levels(89: .34 91: 2.77 ton)
Unspecified aqueous solution(91: .12 ton)
Organics:
Halogenated solvents(89: 9.92 91: 6.64 ton)
Oxygenated solvents(89: 4.55 91: 6.82 ton)
Waste oil and mixed oil(89: .21 91: 9.58 ton)
Other organic solids(89: 13.75 91: 15.37 ton)
California Restricted Wastes:
Liquids with cyanides > 1000 mg/l(89: 1.78 91: .61 ton)
Liquids with chromium(IV) > 500mg/l(89: .16 ton)
Liquids with halogenated org > 1000 mg/l(91: .76 ton)

Site: ITOYA OF AMERICA
Address: 4729 ALLA RD
City: MARINA DEL REY
Map Loc: 33
Status: EPA ID#: CAD982515066

Organics:
Off-specification, aged or surplus organics(89: 4.21 91: 1.12 ton)

UST Permitted Underground Storage Tanks - State Water Quality Control Board

The Corteses Bill (AB2013), enacted in 1983, required registration of all underground storage tanks (UST) with the State Water Quality Control Board by July 1, 1984. About 176,000 tanks and surface impounds were registered between 1984 and 1987. An amendment (AB 1413) was passed in 1987, effectively removing the State Board from the registration process starting January 1, 1988. The data reflects the information collected by the state between 1984 and 1987 as well as 1993 and includes all tanks and surface impounds in use or closed between 1974 and 1987.

Home and farm heating fuel tanks with capacities of 1,100 gallons or less and "structures such as sumps, separators, storm drains, catch basins, oil field gathering lines, refinery pipelines, lagoons, evaporation ponds, well cellars, separation sumps, lined and unlined pits, sumps and lagoons" except those defined as UST under HSWA or may be regulated to protect water quality under the Porter-Cologne Water Quality Control Act are excluded.

This list has been researched within the vicinity of the subject site.

Site: XEROX COMPUTER SYSTEMS
Address: 5404 JANDY PL
City: LOS ANGELES
Map Loc: 3
Status: 19049209644 (1993)

Site: BMW OF NORTH AMERICA INCORPORA
Address: 12541 BEATRICE ST
City: LOS ANGELES
Map Loc: 6
Status: 00000034357 (1987&93)
Activity: BMW DISTRIBUTOR
Tanks: 1000 gallon, fiberglass tank (unleaded), installed in 1980
1000 gallon, fiberglass tank (unleaded), installed in 1980
2000 gallon, fiberglass tank (unleaded), installed in 1980
2000 gallon, fiberglass tank (unleaded), installed in 1980

Site: MARINA DEL REY
Address: 5535 WESTLAWN AVE
City: MARINA DEL REY
Map Loc: 11
Status: 00000003718 (1987)
Activity: PUBLIC UTILITY
Tanks: 10000 gallon tank (unleaded)
500 gallon tank (waste oil)

Site: GENERAL TELEPHONE CO OF CALIF
Address: 5535 WESTLAWN AVE
City: MARINA DEL REY
Map Loc: 11
Status: 19044626102 (1993)

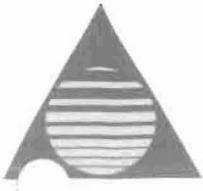
Site: GENERAL TELEPHONE COMPANY
Address: 5535 WESTLAWN AVE
City: LOS ANGELES
Map Loc: 11
Status: 19048970507 (1993)

Site: PAUL V WEELDEN
Address: 4943 MCCONNELL AVE
City: LOS ANGELES
Map Loc: 18
Status: 19048969506 (1993)

Site: MCCOLLOCH CORPORATION
Address: 5401 BEETHOVEN ST
City: LOS ANGELES
Map Loc: 22
Status: 00000006611 (1987&93)
Activity: ENGR/ADM. OFFICE
Tanks: 2000 gallon, single-walled, carbon steel tank (regular), installed in 1982
2000 gallon, single-walled, unlined, carbon steel tank (regular), installed in 1982
2000 gallon, single-walled, unlined, carbon steel tank (regular), installed in 1982
2000 gallon, single-walled, unlined, carbon steel tank (unleaded), installed in 1982
1000 gallon, single-walled, unlined, steel clad tank (regular)
1000 gallon, single-walled, unlined, steel clad tank
2000 gallon, single-walled, unlined, steel clad tank , installed in 1982
concrete sump (waste oil), installed in 1982

Site: SEARS, PACIFIC CENTRAL SERVICE
Address: 12870 CULVER BLVD
City: LOS ANGELES
Map Loc: 29
Status: 00000006542 (1987)
Activity: SERVICE
Tanks: 8000 gallon tank (unleaded)
tank
tank

Site: COMPUTER PROCESSING
Address: 12960 CORAL TREE PL
City: LOS ANGELES
Map Loc: 30
Status: 19049204643 (1993)



ENVIRONET

Environmental Health & Safety Network

Tel/Fax: 888.857.4082

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ID# 963

APPROVED

**SITE INVESTIGATION REPORT
GROSS SOLIDS REMOVAL DEVICE, LOCATION NOS. 31 and 32**

State of California, Department of Transportation
Construct Gross Solids Removal Devices
Various Locations – Routes 5, 10, and 90
Cities of Glendale, Burbank, Los Angeles, and Culver City, California

**Contract No. 07-2266A4
07-LA-5-43.8-46.2/10-14.8-22.8/90-2.9-4.5**

Prepared for:

**Powell Constructors
8555 Banana Avenue
Fontana 92335
909-356-8880**

JUN - 4 2008

Prepared by:

**ENVIRONET
Environmental, Health and Safety Network
1827 Ximeno Avenue, No. 300
Long Beach, California 90815
562-209-7080**

Terence Wong

Wilbert P. Gaston, P. G. 4540

May 28, 2008

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**SITE INVESTIGATION REPORT
GROSS SOLIDS REMOVAL DEVICES
LOCATION Nos. 31 and 32**

State of California, Department of Transportation
Construct Gross Solids Removal Devices
Various Locations – Routes 5, 10, and 90
Cities of Glendale, Burbank, Los Angeles, and Culver City, California
Contract No. 07-2266A4
07-LA-5-43.8-46.2/10-14.8-22.8/90-2.9-4.5

CLIENT: Powell Constructors
8555 Banana Avenue
Fontana, CA 92335

LOCATION: Route 90, Los Angeles, California
GSRD Location Nos. 31 and 32

REPORT BY: Terence Wong, MSIH

REPORT DATE: May 28, 2008

I. INTRODUCTION

ENVIRONET, Environmental, Health and Safety Network (ENVIRONET) conducted soil sampling at the following location:

Route 10 – Los Angeles, California
Gross Solids Removal Device Location Nos. 31 and 32

in accordance with the following Caltrans Contract:

Caltrans Contract No. 07-2266A4
Construct Gross Solids Removal Devices Project

A. Project and Site Description

The project involves the excavation of soil along the embankment to construct Gross Solids Removal Devices, which are used to remove refuse from storm water that flows off the freeway. The entire project includes thirty-eight (38) separate GSRD locations. These locations will be addressed in future Site Investigation Reports when the sampling and analysis is complete.

Location Nos. 31 and 32 for this project is located in the City of Los Angeles, California. The project site includes locations along Route 10. The area surrounding Location Nos. 31 and 32 is a mixture of residential, commercial, and light industrial properties.

B. Site Investigation Objective

The purpose of the site investigation is to determine if the soil excavated is defined as the following:

- **RCRA Hazardous Waste** - Resource Conservation and Recovery Act (RCRA), United States Environmental Protection Agency (USEPA)
- **Non-RCRA, California Hazardous (Cal-Haz) Waste**, California Code of Regulations (CCR)
- **Non-hazardous waste** – Municipal waste

Caltrans will make the determination for disposal requirements, based on statistical analysis conducted on the sample results.

C. Deviations from Approved Modified Sampling and Analysis Plan

The following deviations were made from the Sampling and Analysis Plan (SAP):

1. The SAP indicated that statistical analysis will be conducted on the results of the samples collected.

Caltrans will conduct the statistical analysis of the sample results.

2. The modified SAP requested that each sample boring for each GSRD be surveyed. In addition, the modified SAP also requested that the survey include landmarks and other distinguishing features.

This survey was not accomplished.

3. A boring log was requested for each boring location for each GSRD.

The sample boring log was not provided.

4. Location Nos. 31 and 32 were not sampled to their required depths because they met "refusal", i.e., an impenetrable object or layer that could not be negotiated.

5. Toxicity Characteristic Leaching Procedure (TCLP) for lead and Title 22 metals by EPA Method 6010 were not conducted at the time the project was previously halted. The holding time for the samples has expired.

No additional deviations from the modified SAP were conducted.

D. Geology and Hydrogeology

The project is set with the Los Angeles Quadrangle as compiled by the U.S. Geological Survey (USGS) geologic map (Yerkes, 1997).

About one-fourth (1/4) of the Los Angeles Quadrangle is covered by Holocene alluvial sediments. These younger Quaternary alluvial fan units are exposed within and adjacent to the present and past courses of the Los Angeles River and its tributaries. Holocene sediments also occur as thin surficial deposits in the Repetto Hills. Other units in the quadrangle include extensive exposure of Pleistocene alluvium, Tertiary marine sedimentary rocks exposed in the Elysian, Repetto, and San Rafael Hills, and a small pre-Tertiary basement rock exposure in the northwest corner of the Quadrangle. Younger Quaternary sediments are dominated by loose to moderately dense sand in the northern part of the quadrangle and loose to moderately dense sand and silt in the southern part. A thin clay layer was reported to penetrate Holocene sediments throughout the Quadrangle.

Groundwater data in the area indicates that the depth to groundwater in the area ranges from 25 to 35 feet (25'-35') bgs along Route 90. Directional flow of groundwater is east to west across Route 90 (U.S. Geological Survey (USGS) geologic map, Yerkes, 1997).

The surface water flow direction generally falls from the freeway and down the embankment.

E. Previous Site Investigations

A review of the previous Site Investigation Reports indicates the following:

"Site Investigation Report. Lead Investigation Route 90 Between Inglewood Boulevard to Lincoln Boulevard (KP 1.2/1.9), Los Angeles, California. Contract 43A0012, Task Order No. 07-1693U1-JZ" indicates that ADL is found in concentrations ranging from less than 0.25 to 1,650 mg/kg total lead, as analyzed by EPA Method 6010 or 7000 series.

II. METHODOLOGY

A. Sampling Procedures

Four (4) borings were advanced at each GSRD location to the following depths:

- Surface
- One foot (1') below ground surface (bgs)
- Two feet (2') bgs
- Five feet (5') bgs

Following the sample collected at five feet (5') bgs, samples were collected in five feet (5') increments until the depth of the excavation necessary to construct the GSRD was achieved.

Each soil boring was advanced to the depth of the excavation utilizing a four inch (4") outside diameter (o.d.) hand auger. For samples requiring analysis for lead only, the sample was homogenized on site and placed in a clean glass jar with a teflon seal. For samples requiring additional analysis, a slide hammer direct push sampling device impacted the soil into a two inch (2") o.d. stainless steel sleeve. Each sample was removed, capped, assigned an identification number, and placed in an ice chest. The samples were transported chilled and under proper chain of custody to ABC Environmental Laboratory, a California Department of Health Services certified laboratory, in Pico Rivera, California. A copy of this certification is found in Appendix A.

B. Equipment Decontamination

The sampling equipment was decontaminated prior to the collection of each sample. The purpose of decontamination is to prevent possible cross contamination from each sample.

The hand auger and slide hammer were washed and brushed with a TSP (non-phosphate soap) and tap water solution. Following the washing, the equipment was triple rinsed, first with tap water, followed by a rinse with de-ionized water. All decontamination liquids were collected and will be disposed of at an appropriate facility.

C. Analytical Methodology

At a minimum, each sample was analyzed for the following compounds:

- Total lead (TTLC) by EPA Method 6010

Subsequent analysis for aerially deposited lead (ADL) was required, based on the analytical results obtained from EPA Method 6010 for total lead. Laboratory analysis was performed in accordance with the following procedures:

- When total lead levels (TTLC) are less than 1,000 mg/kg, but greater than or equal to 50 mg/kg, the samples were submitted to determine the concentration of soluble lead utilizing the California Waste Extraction Test (WET).
- When the Soluble Threshold Limit Concentration (STLC) is greater than 5.0 milligrams per liter (mg/l), the sample will be submitted for the soluble lead waste extraction test using de-ionized (DI) water.

In addition, ten percent (10%) of the samples or two (2) samples from each GSRD location was analyzed for the following compounds:

- Total petroleum hydrocarbons as gas and diesel (TPH – G, D) by EPA Method 8015
- Agricultural chemical products (pesticides) by EPA Method 8081
- Volatile organic compounds (VOCs) by EPA Method 8260
- Semi-volatile organic compounds (SVOCs) by EPA Method 8270
- Level of pH by EPA Method 9045

D. Quality Assurance/Quality Control Procedures

Quality assurance and quality control (QA/QC) procedures were implemented to ensure the integrity of the samples collected. Field and laboratory QA/QC procedures were followed for each method of analysis and for every appropriate analyte requested or representative analytes (TPH – G and D). The QA/QC data is reported with the laboratory data sheets in the Appendices.

1. Field QA/QC Procedures

One (1) field blank was collected each day. De-ionized water was transferred from one sample container to another at the sampling location. The purpose of the field blank is to determine if any background levels of contaminants are present at the sampling location. This water was collected in a laboratory container and analyzed for the compounds listed in **Section C – Analytical Methodology**.

One (1) equipment blank was submitted for each chain-of-custody. De-ionized (DI) water was poured into the sampling device. This water was collected in a laboratory container and analyzed for the compounds listed in **Section C – Analytical Methodology**. If the field blank was passed through the sampling device, that sample served as a field blank as well as an equipment blank.

One (1) trip blank was submitted with the ice chest during transport of the samples. The trip blank is used to eliminate any false positive results in the collected samples, as a result of contamination during shipment.

The trip blank was prepared by the laboratory for each group of samples and returned with the ice chest to the laboratory. The trip blank accompanied the collected samples throughout the sampling period and was subsequently analyzed for Total Petroleum Hydrocarbons, as Gas and Diesel (TPH-G, D) and volatile organic compounds (VOC).

2. Laboratory QA/QC Procedures

One (1) method blank was analyzed for every ten (10) samples submitted. A method blank is an in-house sample analyzed by the analytical method as outlined in analyzed for the compounds listed in for the compounds listed in **Section C – Analytical Methodology**.

One (1) spiked sample was analyzed for every ten (10) submitted. A spike sample is an in-house sample in which a compound is injected into the sample at a concentration equal to ten (10) times the detection limit.

III. SUMMARY OF RESULTS

The sample results are used to determine proper transportation, excavation and disposal procedures. A complete table of results is found in Appendix B. The complete laboratory reports are found in Appendix C.

A. Total Petroleum Hydrocarbons as Gasoline (TPH-G)

Total petroleum hydrocarbons as Gasoline (TPH-G) was not detected at levels that required additional treatment or disposal.

A copy of the complete laboratory report is found in Appendix ~~B~~. C

B. Total Petroleum Hydrocarbons as Diesel (TPH-D)

Total petroleum hydrocarbons as Diesel (TPH-D) was not detected at levels that required additional treatment or disposal.

A copy of the complete laboratory report is found in Appendix ~~B~~. C

C. Volatile Organic Compounds (VOC)

Volatile Organic Compounds were not detected at levels that require additional treatment or disposal.

A copy of the complete laboratory report and a complete list of all compounds analyzed is found in Appendix ~~B~~. C

D. Lead**1. Total Threshold Limit Concentration (TTLIC)**

The Total Threshold Limit Concentration (TTLIC) results for lead at each GSRD location is listed as follows:

- Location No. 31 2.9 – 95.3 mg/kg
- Location No. 32 None Detected – 108 mg/kg

A copy of the complete laboratory report is found in Appendix ~~B~~. C

2. Soluble Threshold Limit Concentration (STLC)

The Soluble Threshold Limit Concentration (STLC) results for lead at each GSRD location is listed as follows:

- Location No. 31 2.23 – 9.20 mg/l
- Location No. 32 2.31 – 4.14 mg/l

A copy of the complete laboratory report is found in Appendix ~~B~~. C

3. Toxicity Characteristic Leaching Procedure (TCLP)

TCLP analysis was not conducted.

E. Agricultural Chemical Products (Pesticides)

All pesticide compounds were not detected or in levels that are below the preliminary remediation goals (PRG) as defined by the state of California.

A copy of the complete laboratory report is found in Appendix ~~B~~. C

F. pH

The results for pH, a measure of corrosivity as defined as an acid or base, indicate that the pH levels are within the range identified as non-hazardous.

A copy of the complete laboratory report is found in Appendix ~~B~~. C

G. Title 22 Metals

This analysis was not conducted.

H. Semi-Volatile Organic Compounds (SVOC)

Semi-Volatile Organic Compounds were not detected at levels that require additional treatment or disposal.

A copy of the complete laboratory report and a complete list of all compounds analyzed is found in Appendix ~~B~~. C

Appendix A
Laboratory Certification



STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

ENVIRONMENTAL LABORATORY CERTIFICATION

Is hereby granted to

ABC ENVIRONMENTAL LABORATORIES

3701 SAN GABRIEL RIVER PARKWAY
PICO RIVERA, CA 90660

Scope of certification is limited to the
"Accredited Fields of Testing"
which accompanies this Certificate.

Continued certification status depends on successful completion of site visit,
proficiency testing studies, and payment of applicable fees.

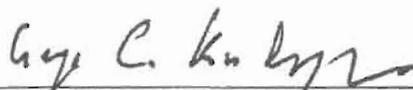
This Certificate is granted in accordance with provisions of
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: **2584**

Expiration Date: **03/31/2008**

Effective Date: **03/01/2006**

Richmond, California
subject to forfeiture or revocation


George C. Kulasingam, Ph.D.
Program Chief
Environmental Laboratory Accreditation Program

**CALIFORNIA DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
Accredited Fields of Testing**

ABC ENVIRONMENTAL LABORATORIES

Lab Phone (562) 413-8343

3701 SAN GABRIEL RIVER PARKWAY
PICO RIVERA, CA 90660

Certificate No: 2584 Renew Date: 3/31/2008

Field of Testing: 114 - Inorganic Chemistry of Hazardous Waste

114.030	001	Antimony	EPA 7040
114.040	001	Arsenic	EPA 7060A
114.060	001	Barium	EPA 7080A
114.070	001	Beryllium	EPA 7090
114.080	001	Cadmium	EPA 7130
114.090	001	Chromium	EPA 7190
114.110	001	Cobalt	EPA 7200
114.120	001	Copper	EPA 7210
114.130	001	Lead	EPA 7420
114.140	001	Mercury	EPA 7470A
114.141	001	Mercury	EPA 7471A
114.150	001	Molybdenum	EPA 7480
114.160	001	Nickel	EPA 7520
114.170	001	Selenium	EPA 7740
114.180	001	Silver	EPA 7760A
114.190	001	Thallium	EPA 7840
114.200	001	Vanadium	EPA 7910
114.210	001	Zinc	EPA 7950
114.240	001	Corrosivity - pH Determination	EPA 9040B
114.241	001	Corrosivity - pH Determination	EPA 9045C

Field of Testing: 115 - Extraction Test of Hazardous Waste

115.021	001	TCLP Inorganics	EPA 1311
115.030	001	Waste Extraction Test (WET)	CCR Chapter11, Article 5, Appendix II

Field of Testing: 116 - Volatile Organic Chemistry of Hazardous Waste

116.030	001	Gasoline-range Organics	EPA 8015B
116.040	041	Methyl tert-butyl Ether (MTBE)	EPA 8021B
116.040	062	BTEX	EPA 8021B
116.080	000	Volatile Organic Compounds	EPA 8260B
116.080	120	Oxygenates	EPA 8260B
116.100	001	Total Petroleum Hydrocarbons - Gasoline	LUFT GC/MS
116.110	001	Total Petroleum Hydrocarbons - Gasoline	LUFT

Field of Testing: 117 - Semi-volatile Organic Chemistry of Hazardous Waste

117.010	001	Diesel-range Total Petroleum Hydrocarbons	EPA 8015B
117.016	001	Diesel-range Total Petroleum Hydrocarbons	LUFT
117.017	001	TRPH Screening	EPA 418.1

ABC ENVIRONMENTAL LABORATORIES

Certificate No: 2584
Renew Date: 3/31/2008

117.110	000	Extractable Organics	EPA 8270C
117.210	000	Organochlorine Pesticides	EPA 8081A
117.220	000	PCBs	EPA 8082
117.240	000	Organophosphorus Pesticides	EPA 8141A
117.250	000	Chlorinated Herbicides	EPA 8151A

As of 11/13/2006, this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

Appendix B

Table of Results

Table 1: Lead Results

Sample No.			TTLIC mg/kg ¹	STLC mg/l ²	DI-WET mg/l ²	TCLP mg/l
963-31	101	0	15.0	--	--	--
		1	40.2	--	--	--
		2	60.8	5.02	0.47	--
		4.5	3.7	--	--	--
	102	0	50.4	2.75	--	--
		1	6.7	--	--	--
		2	3.1	--	--	--
		4.5	2.9	--	--	--
	103	0	139	9.20	0.45	--
		1	60.4	2.23	--	--
		2	16.2	--	--	--
		3	78.3	2.32	--	--
	104	0	6.8	--	--	--
		1	95.3	7.02	0.41	--
		2	52.0	2.25	--	--
		3	7.2	--	--	--
5		11.5	--	--	--	
963-32	101	0	58.1	2.31	--	--
		1	3.5	--	--	--
		2	ND	--	--	--
		5	12.0	--	--	--
		10	9.0	--	--	--
		15	5.7	--	--	--
		17	6.5	--	--	--
	102	0	108	4.14	--	--
		1	4.5	--	--	--
		2	4.3	--	--	--
		5	4.4	--	--	--
		10	6.7	--	--	--
	103	0	84.1	2.67	--	--
		1	ND	--	--	--
		2	5.3	--	--	--
		5	11.4	--	--	--
		10	9.4	--	--	--
	104	0	60.4	3.01	--	--
		1	10.2	--	--	--
		2	5.6	--	--	--
5		7.6	--	--	--	
10		8.8	--	--	--	
		12	6.8	--	--	--

- 1 mg/kg - milligrams per kilogram
- 2 mg/l - milligrams per liter
- 3 ND - None detected

Table 2: Total Petroleum Hydrocarbons, Gasoline and Diesel Parts Per Million (PPM)

Constituent	963-31		963-32	
	101-4.5	104-5	101-5	104-5
Gasoline	ND ¹	ND	ND	ND
Diesel	ND	ND	ND	ND

1 ND - None Detected

Table 3: pH

Constituent	963-31		963-32	
	101-4.5	104-5	101-5	104-5
pH	7.01	6.89	6.95	7.05

Table 4: Organochlorine Pesticides Parts Per Billion (PPB)

Constituent	963-31		963-32	
	102-0	103-0	102-0	103-0
Alpha-BHC	ND	ND	ND	ND
Gamma-BHC	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Aldrine	ND	ND	ND	ND
Beta-BHC	ND	ND	ND	ND
Delta-BHC	ND	ND	ND	ND
Heptachlor Epoxide	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND
4,4-DDE	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND
Endrin	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND
4,4-DDD	ND	ND	5.0	ND
4,4-DDT	6.64	5.0	8.88	17.0
Endrin Aldehyde	ND	ND	ND	ND
Endosulfan Sulfate	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Endrin Ketone	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND

1 ND - None Detected

**Table 5: VOCs – Volatile Organic Compounds
Parts Per Million (PPM)**

Constituent	963-31		963-32		Constituent	963-31		963-32	
	101-4.5	104-5	101-5	104-5		101-4.5	104-5	101-5	104-5
Dichlorodifluoromethane	ND ¹	ND	ND	ND	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND	Ethylbenzene	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	Total Xylene	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	Styrene	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	Bromoform	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	Isopropyl Benzene	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	Bromobenzene	ND	ND	ND	ND
Carbon disulfide	ND	ND	ND	ND	1,2,3-Trichloropropane	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2-Dichloroethene	ND	ND	ND	ND	Trans-1,4-dichloro-2-butene	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	2-Chlorotoluene	ND	ND	ND	ND
2,2-Dichloropropane	ND	ND	ND	ND	n-Propyl Benzene	ND	ND	ND	ND
Bromochloroethane	ND	ND	ND	ND	4-Chlorotoluene	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	1,3,5-Trimethyl Benzene	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	Tert-Butylbenzene	ND	ND	ND	ND
Vinyl Acetate	ND	ND	ND	ND	p-Isopropyl toluene	ND	ND	ND	ND
Carbontetrachloride	ND	ND	ND	ND	1,2,4-Trimethyl Benzene	ND	ND	ND	ND
1,1-Dichloropropene	ND	ND	ND	ND	Sec-Butylbenzene	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	1,2-Dichlorobenzene	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	1,3-Dichlorobenzene	ND	ND	ND	ND
Trochloroethene	ND	ND	ND	ND	1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	n-Butylbenzene	ND	ND	ND	ND
Methyl methacrylate	ND	ND	ND	ND	1,2-Dibromo-3-Chloropropane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND	1,2,4-Trichlorobenzene	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	Hexachlorobutadiene	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether	ND	ND	ND	ND	Naphthalene	ND	ND	ND	ND
Cis-1,3-DiChloropropene	ND	ND	ND	ND	1,2,3-Trichlorobenzene	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	Acetone	ND	ND	ND	ND
Trans-1,3-Dichloropropene	ND	ND	ND	ND	2-Butanone	ND	ND	ND	ND
Ethylmethacrylate	ND	ND	ND	ND	MTBE	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	Ethyl-t-butyl Ether	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	Diisopropyl Ether	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	t-Butanol	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND					

1 ND - None Detected

**Table 6: SVOCs – Semi-Volatile Organic Compounds
Parts Per Million (PPM)**

Constituent	963-31		963-32		Constituent	963-31		963-32	
	101-4.5	104-5	101-5	104-5		101-4.5	104-5	101-5	104-5
N-Nitrosodimethylamine	ND ¹	ND	ND	ND	3-Nitroaniline	ND	ND	ND	ND
Pyridine	ND	ND	ND	ND	Acenaphthene	ND	ND	ND	ND
Aniline	ND	ND	ND	ND	2,4-Dinitrophenol	ND	ND	ND	ND
Bis(2-chloroethyl) ether	ND	ND	ND	ND	4-Nitrophenol	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	Dibenzofuran	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND	2,4-Dinitrotoluene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	Diethylphthalate	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	Fluorene	ND	ND	ND	ND
Benzyl alcohol	ND	ND	ND	ND	4-Chlorophenylphenylether	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	4-Nitroaniline	ND	ND	ND	ND
2-Methylphenol	ND	ND	ND	ND	1,2-Diphenylhydrazine	ND	ND	ND	ND
N-Nitroso-di-n-propyl	ND	ND	ND	ND	4,6-Dinitro-2-methylphenol	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	N-Nitrosodiphenylamine	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	4-Bromophenylphenylether	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	Pentachlorophenol	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	Benzidine	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	Phenanthrene	ND	ND	ND	ND
Bis(2-Chloroethoxy)methane	ND	ND	ND	ND	Anthracene	ND	ND	ND	ND
Benzoic Acid	ND	ND	ND	ND	Carbazole	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	Di-n-butylphthalate	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	Fluoranthene	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	Pyrene	ND	ND	ND	ND
4-Chloroaniline	ND	ND	ND	ND	Butylbenzylphthalate	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	Benzo(a)anthracene	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND	3,3-Dichlorobenzidine	ND	ND	ND	ND
2-Methylnaphthalene	ND	ND	ND	ND	Chrysene	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	Bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	Di-n-octylphthalate	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND	Benzo (b and k) fluoranthene	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	Benzo(a)pyrene	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND	Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND
Dimethylphthalate	ND	ND	ND	ND	Dibenzo(a,h)anthracene	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	Benzo(g,h,i)perylene	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND					

Appendix C
Laboratory Reports

ABC Environmental Laboratories, Inc.

Mr. T. Wong
Environet
1827 Ximeno #300
Long Beach, CA 90815

5/19/2007

Project: Powell/2266A4
Project Site: 963-31/32
Sample Date: 5/16/2007
Lab Job No.: EN7E054

Dear Mr. T. Wong:

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 5/16/07 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8081A(Organochlorine Pesticides)
EPA 7000s (CAM 17 Metals)
EPA 8015M (Gasoline & Diesel)
EPA 7420 (TTLC-Lead)
EPA 8270C (Semi-VOCs)
EPA 9045C (pH)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (562) 699-7288 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



Enclosures

This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories, Inc.

Client: Environet
 Project: Powell/2266A4
 Project Site: 963-31/32
 Matrix: Soil
 Extraction Method: EPA 3550B
 Batch No.: 0518-PES-S

Lab Job No.: EN7E054
 Date Sampled: 5/16/2007
 Date Received: 5/16/2007
 Date Extracted: 5/17/2007
 Date Analyzed: 5/18/2007
 Date Reported: 5/19/2007

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

Dilution Factor		1	1	1	1	
Lab Sample I.D.		EN7E054-5	EN7E054-9	EN7E054-22	EN7E054-30	
Client Sample I.D.		963-31-102-Ø	963-31-103-Ø	963-32-102-Ø	963-32-103-Ø	
Compound	RL					
α-BHC	5	ND	ND	ND	ND	
γ-BHC	5	ND	ND	ND	ND	
Heptachlor	5	ND	ND	ND	ND	
Aldrin	5	ND	ND	ND	ND	
β-BHC	5	ND	ND	ND	ND	
δ-BHC	5	ND	ND	ND	ND	
Heptachlor Epoxide	5	ND	ND	ND	ND	
Endosulfan I	5	ND	ND	ND	ND	
4,4'-DDE	5	18.6	ND	ND	ND	
Dieldrin	5	ND	ND	ND	ND	
Endrin	5	ND	ND	ND	ND	
Endosulfan II	5	ND	ND	ND	ND	
4,4'-DDD	5	ND	ND	5.0	ND	
4,4'-DDT	5	6.64	5.0	8.88	17.0	
Endrin Aldehyde	5	ND	ND	ND	ND	
Endosulfan Sulfate	5	ND	ND	ND	ND	
Methoxychlor	20	ND	ND	ND	ND	
Endrin Ketone	10	ND	ND	ND	ND	
Chlordane	25	ND	ND	ND	ND	
Toxaphene	100	ND	ND	ND	ND	

ND: Not Detected (Below DF x RL).

RL: Reporting Limit

ABC Environmental Laboratories, Inc.

EPA Method 8081A Batch QA/QC Report

Client: Environet
Project: Powell/2266A4
Matrix: Soil
Batch No.: 0518-PES-S

Lab Job No.: EN7E054
Lab Sample ID: LCS
Date Analyzed: 5/18/2007
Date Reported: 5/19/2007

LCS/LCSD Report

Unit:ug/kg (PPB)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	30	20.3	23.2	68	77	13	<30	50-150
Heptachlor	ND	30	26.2	25.0	87	83	5	<30	50-150
Aldrin	ND	30	23.5	24.1	78	80	3	<30	50-140
Dieldrin	ND	60	50.3	51.5	84	86	2	<30	70-130
Endrin	ND	60	43.6	44.4	73	74	2	<30	70-150
4,4'-DDT	ND	60	61.2	53.3	102	89	14	<30	30-130

ND: Not Detected (Below Reporting Limit).

ABC Environmental Laboratories, Inc.

Client:	Environet	Lab Job No.:	EN7E054
Project :	Powell/2266A4	Date Sampled:	5/16/2007
Project Site:	963-31/32	Date Received:	5/16/2007
Matrix:	Soil	Date Analyzed:	5/17/2007
Batch No.:	0517-VOCS	Date Reported:	5/19/2007

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed		05/17/07	05/17/07	05/17/07	05/17/07
Dilution Factor		1	1	1	1
Lab Sample I.D.		EN7E054-4	EN7E054-17	EN7E054-21	EN7E054-29
Client Sample I.D.		963-31-101-4.5	963-31-104-5	963-32-101-5	963-32-104-5
Compound	RL				
Dichlorodifluoromethane	0.005	ND	ND	ND	ND
Chloromethane	0.005	ND	ND	ND	ND
Vinyl Chloride	0.005	ND	ND	ND	ND
Bromomethane	0.005	ND	ND	ND	ND
Chloroethane	0.005	ND	ND	ND	ND
Trichlorofluoromethane	0.005	ND	ND	ND	ND
1,1-Dichloroethene	0.005	ND	ND	ND	ND
Carbon disulfide	0.005	ND	ND	ND	ND
Methylene chloride	0.005	ND	ND	ND	ND
Trans-1,2-Dichloroethene	0.005	ND	ND	ND	ND
1,1-Dichloroethane	0.005	ND	ND	ND	ND
2,2-Dichloropropane	0.005	ND	ND	ND	ND
Cis-1,2-Dichloroethene	0.005	ND	ND	ND	ND
Bromochloromethane	0.005	ND	ND	ND	ND
Chloroform	0.005	ND	ND	ND	ND
1,1,1-Trichloroethane	0.005	ND	ND	ND	ND
Vinyl acetate	0.005	ND	ND	ND	ND
Carbontetrachloride	0.005	ND	ND	ND	ND
1,1-Dichloropropene	0.005	ND	ND	ND	ND
1,2-Dichloroethane	0.005	ND	ND	ND	ND
Benzene	0.001	ND	ND	ND	ND
Trichloroethene	0.005	ND	ND	ND	ND
1,2-Dichloropropane	0.005	ND	ND	ND	ND
Methyl methacrylate	0.005	ND	ND	ND	ND
Dibromomethane	0.005	ND	ND	ND	ND
Bromodichloromethane	0.005	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether	0.005	ND	ND	ND	ND
Cis-1,3-Dichloropropene	0.005	ND	ND	ND	ND
Toluene	0.001	ND	ND	ND	ND
Trans-1,3-Dichloropropene	0.005	ND	ND	ND	ND
Ethylmethacrylate	0.005	ND	ND	ND	ND
1,1,2-Trichloroethane	0.005	ND	ND	ND	ND
Dibromochloromethane	0.005	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	0.005	ND	ND	ND	ND
Tetrachloroethene	0.005	ND	ND	ND	ND
1,3-Dichloropropane	0.005	ND	ND	ND	ND
Chlorobenzene	0.005	ND	ND	ND	ND

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x RL)

ABC Environmental Laboratories, Inc.

Client: Environet
 Project : Powell/2266A4
 Project Site: 963-31/32
 Matrix: Soil
 Batch No.: 0517-VOCS

Lab Job No.: EN7E054
 Date Sampled: 5/16/2007
 Date Received: 5/16/2007
 Date Analyzed: 5/17/2007
 Date Reported: 5/19/2007

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed		05/17/07	05/17/07	05/17/07	05/17/07
Dilution Factor		1	1	1	1
Lab Sample I.D.		EN7E054-4	EN7E054-17	EN7E054-21	EN7E054-29
Client Sample I.D.		963-31-101-4.5	963-31-104-5	963-32-101-5	963-32-104-5
Compound	RL				
1,1,1,2-Tetrachloroethane	0.005	ND	ND	ND	ND
Ethylbenzene	0.001	ND	ND	ND	ND
Total Xylene	0.002	ND	ND	ND	ND
Styrene	0.005	ND	ND	ND	ND
Bromoform	0.005	ND	ND	ND	ND
Isopropyl benzene	0.005	ND	ND	ND	ND
Bromobenzene	0.005	ND	ND	ND	ND
1,2,3-Trichloropropane	0.005	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.005	ND	ND	ND	ND
Trans-1,4-dichloro-2-butene	0.005	ND	ND	ND	ND
2-Chlorotoluene	0.005	ND	ND	ND	ND
n-Propyl benzene	0.005	ND	ND	ND	ND
4-Chlorotoluene	0.005	ND	ND	ND	ND
1,3,5-Trimethyl benzene	0.005	ND	ND	ND	ND
tert-Butylbenzene	0.005	ND	ND	ND	ND
p-Isopropyl toluene	0.005	ND	ND	ND	ND
1,2,4-Trimethyl benzene	0.005	ND	ND	ND	ND
sec-Butylbenzene	0.005	ND	ND	ND	ND
1,3-Dichlorobenzene	0.005	ND	ND	ND	ND
1,4-Dichlorobenzene	0.005	ND	ND	ND	ND
1,2-Dichlorobenzene	0.005	ND	ND	ND	ND
n-Butylbenzene	0.005	ND	ND	ND	ND
1,2-Dibromo-3-chloropropan	0.005	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.005	ND	ND	ND	ND
Hexachlorobutadiene	0.005	ND	ND	ND	ND
Naphthalene	0.005	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.005	ND	ND	ND	ND
Aceton	0.050	ND	ND	ND	ND
2-Butanone(MEK)	0.025	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	0.050	ND	ND	ND	ND
MTBE	0.002	ND	ND	ND	ND
Ethyl-t-butyl Ether(ETBE)	0.002	ND	ND	ND	ND
Diisopropyl ether (DIPE)	0.002	ND	ND	ND	ND
TAME	0.002	ND	ND	ND	ND
t-Butanol	0.020	ND	ND	ND	ND

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x RL)

ABC Environmental Laboratories, Inc.

EPA 8260B (VOCs & Oxy.)

Batch QA/QC Report

Client: Environet
Project: Powell/2266A4
Matrix: Soil
Batch No.: 0517-VOCS

Lab Job No.: EN7E054
Lab Sample ID: LCS
Date Analyzed: 5/17/2007
Date Reported: 5/19/2007

LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	0.020	0.019	0.018	95	90	5.4	20	80-120
Benzene	ND	0.020	0.021	0.021	105	105	0.0	20	80-120
Trichloroethene	ND	0.020	0.020	0.019	100	95	5.1	20	80-120
Toluene	ND	0.020	0.021	0.020	105	100	4.9	20	80-120
Chlorobenzene	ND	0.020	0.018	0.018	90	90	0.0	20	80-120

ND: Not Detected (Below RL)

ABC Environmental Laboratories, Inc.

Client:	Environet	Lab Job No.:	EN7E054
Project:	Powell/2266A4	Date Sampled:	5/16/2007
Project Site:	963-31/32	Date Received:	5/16/2007
Matrix:	Soil	Date Digested:	5/17/2007
Digestion Method:	3050B	Date Analyzed:	5/18/2007
Batch No.:	0518-Pb-S2 & S3	Date Reported:	5/19/2007

EPA 7420 (Pb)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab Sample ID	Lead (Pb)	Reporting Limit
963-31-101-Ø	EN7E054-1	15.0	2.5
963-31-101-1	EN7E054-2	40.2	2.5
963-31-101-2	EN7E054-3	60.8	2.5
963-31-101-4.5	EN7E054-4	3.7	2.5
963-31-102-Ø	EN7E054-5	50.4	2.5
963-31-102-1	EN7E054-6	6.7	2.5
963-31-102-2	EN7E054-7	3.1	2.5
963-31-102-4.5	EN7E054-8	2.9	2.5
963-31-103-Ø	EN7E054-9	139	2.5
963-31-103-1	EN7E054-10	60.4	2.5
963-31-103-2	EN7E054-11	16.2	2.5
963-31-103-3	EN7E054-12	78.3	2.5
963-31-104-Ø	EN7E054-13	6.8	2.5
963-31-104-1	EN7E054-14	95.3	2.5
963-31-104-2	EN7E054-15	52.0	2.5
963-31-104-3	EN7E054-16	7.2	2.5
963-31-104-5	EN7E054-17	11.5	2.5
963-32-101-Ø	EN7E054-18	58.1	2.5
963-32-101-1	EN7E054-19	3.5	2.5
963-32-101-2	EN7E054-20	ND	2.5
963-32-101-5	EN7E054-21	12.0	2.5

ND: Not Detected (Below Reporting Limit).

Client:	Environet	Lab Job No.:	EN7E054
Project:	Powell/2266A4	Date Sampled:	5/16/2007
Project Site:	963-31/32	Date Received:	5/16/2007
Matrix:	Soil	Date Digested:	5/17/2007
Digestion Method:	3050B	Date Analyzed:	5/18/2007
Batch No.:	0518-Pb-S3	Date Reported:	5/19/2007

EPA 7420 (Pb)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab Sample ID	Lead (Pb)	Reporting Limit
963-32-102-Ø	EN7E054-22	108	2.5
963-32-102-1	EN7E054-23	4.5	2.5
963-32-102-2	EN7E054-24	4.3	2.5
963-32-102-5	EN7E054-25	4.4	2.5
963-32-104-Ø	EN7E054-26	60.4	2.5
963-32-104-1	EN7E054-27	10.2	2.5
963-32-104-2	EN7E054-28	5.6	2.5
963-32-104-5	EN7E054-29	7.6	2.5
963-32-103-Ø	EN7E054-30	84.1	2.5
963-32-103-1	EN7E054-31	ND	2.5
963-32-103-2	EN7E054-32	5.3	2.5
963-32-103-5	EN7E054-33	11.4	2.5

ND: Not Detected (Below Reporting Limit).

ABC Environmental Laboratories, Inc.

EPA 7420 (Total Lead) Batch QA/QC Report

Client: Environet
Project: Powell/2266A4
Matrix: Soil
Digestion Method: 3050B
Batch No.: 0518-Pb-S2

Lab Job No.: EN7E054
Lab Sample ID: LCS
Date Received: 5/16/2007
Date Analyzed: 5/18/2007
Date Reported: 5/19/2007

LCS/LCSD Report

Unit: mg/kg

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Lead (Pb)	7420	ND	50.0	48.0	50.7	96	101	5	<20	80-120

ND: Not Detected (Below Reporting Limit).

ABC Environmental Laboratories, Inc.

EPA 7420 (Total Lead) Batch QA/QC Report

Client: Environet
 Project: Powell/2266A4
 Matrix: Soil
 Digestion Method: 3050B
 Batch No.: 0518-Pb-S3

Lab Job No.: EN7E054
 Lab Sample ID: EN7E054-33
 Date Received: 5/16/2007
 Date Analyzed: 5/18/2007
 Date Reported: 5/19/2007

LCS Report

Unit: mg/kg

Element	EPA Method	Method Blank	Report Value	True Value	Rec. %	Accept Limit
Lead (Pb)	7420	ND	51.3	50.0	103	80-120

MS/MSD Report

Unit: mg/kg

Element	EPA Method	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Lead (Pb)	7420	11.4	50.0	62.5	60.5	102	98	3	30	70-130

ND: Not Detected (Below Reporting Limit).

ABC Environmental Laboratories, Inc.

Client: Environet Lab Job No.: EN7E054
Project : Powell/2266A4 Date Sampled: 5/16/2007
Project Site: 963-31/32 Date Received: 5/16/2007
Matrix: Soil Date Analyzed: TPH-G 5/17/2007
Batch No.: AE17-GS (TPH-G) Date Analyzed: TPH-D 5/17/2007
Batch No.: BE17-DS (TPH-D) Date Reported: 5/19/2007

EPA 8015M (TPH-Gasoline & Diesel)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel		
		C4-C10	C10-C28		
Reporting Limit		1.0	10		
963-31-101-4.5	EN7E054-4	ND	ND		
963-31-104-5	EN7E054-17	ND	ND		
963-32-101-5	EN7E054-21	ND	ND		
963-32-104-5	EN7E054-29	ND	ND		

ND: Not Detected (Below Reporting Limit)

ABC Environmental Laboratories, Inc.

EPA 8015M (TPH-Diesel) Batch QA/QC Report

Client: Environet
Project: Powell/2266A4
Matrix: Soil
Batch No.: BE17-DS

Lab Job No.: EN7E054
Lab Sample ID: LCS
Date Analyzed: 5/17/2007
Date Reported: 5/19/2007

LCS/LCSD Report

Unit: mg/kg

Analyte	Method	Spike	LCS	LCSD	LCS	LCSD	%RPD	%RPD	%Rec
	Blank	Conc.			%Rec.	%rec.		Accept	Accept
								Limit	Limit
TPH-D	ND	500	450	534	90	107	17	<20	80-120

EPA 8015M (TPH-Gasoline) Batch QA/QC Report

Client: Environet
Project: Powell/2266A4
Matrix: Soil
Batch No.: AE17-GS

Lab Job No.: EN7E054
Lab Sample ID: LCS
Date Analyzed: 5/17/2007
Date Reported: 5/19/2007

LCS/LCSD Report

Unit: mg/Kg

Analyte	Method	Spike	LCS	LCSD	LCS	LCSD	%RPD	%RPD	%Rec
	Blank	Conc.			%Rec.	%rec.		Accept	Accept
								Limit	Limit
TPH-G	ND	1.00	0.91	0.81	91	81	11.0	20	80-120

ND: Not Detected (Below Reporting Limit)

ABC Environmental Laboratories, Inc.

Client: Environet
 Project: Powell/2266A4
 Project Site: 963-31/32
 Matrix: Soil
 Extraction Method: 3550B
 Batch No.: 0517-SVOCS

Lab Job No.: EN7E054
 Date Sampled: 5/16/2007
 Date Received: 5/16/2007
 Date Extracted: 5/16/2007
 Date Analyzed: 5/17/2007
 Date Reported: 5/19/2007

EPA 8270C (Semi-VOCs by GC/MS, Page 1 of 2)

Reporting Unit: mg/kg (PPM)

Date Analyzed	05/17/07	05/17/07	05/17/07	05/17/07
Date Extracted	05/16/07	05/16/07	05/16/07	05/16/07
Dilution Factor	1	1	1	1
Lab Sample I.D.	EN7E054-4	EN7E054-17	EN7E054-21	EN7E054-29
Client Sample I.D.	963-31-101-4.5	963-31-104-5	963-32-101-5	963-32-104-5
Compound	RL			
N-Nitrosodimethylamine	0.33	ND	ND	ND
Pyridine	0.33	ND	ND	ND
Aniline	0.33	ND	ND	ND
Bis(2-chloroethyl) ether	0.33	ND	ND	ND
Phenol	0.33	ND	ND	ND
2-Chlorophenol	0.33	ND	ND	ND
1,3-Dichlorobenzene	0.33	ND	ND	ND
1,4-Dichlorobenzene	0.33	ND	ND	ND
Benzyl alcohol	0.66	ND	ND	ND
1,2-Dichlorobenzene	0.33	ND	ND	ND
2-Methylphenol	0.33	ND	ND	ND
Bis(2-chloroisopropyl) ether	0.33	ND	ND	ND
4-Methylphenol	0.33	ND	ND	ND
N-Nitroso-di-n-propyl	0.33	ND	ND	ND
Hexachloroethane	0.33	ND	ND	ND
Nitrobenzene	0.33	ND	ND	ND
Isophorone	0.33	ND	ND	ND
2-Nitrophenol	0.33	ND	ND	ND
2,4-Dimethylphenol	0.33	ND	ND	ND
Bis(2-Chloroethoxy) methane	0.33	ND	ND	ND
Benzoic Acid	0.33	ND	ND	ND
2,4-Dichlorophenol	0.33	ND	ND	ND
1,2,4-Trichlorobenzene	0.33	ND	ND	ND
Naphthalene	0.33	ND	ND	ND
4-Chloroaniline	0.66	ND	ND	ND
Hexachlorobutadiene	0.33	ND	ND	ND
4-Chloro-3-methylphenol	0.66	ND	ND	ND
2-Methylnaphthalene	0.33	ND	ND	ND
Hexachlorocyclopentadiene	0.66	ND	ND	ND
2,4,6-Trichlorophenol	0.33	ND	ND	ND
2,4,5-Trichlorophenol	0.33	ND	ND	ND
2-Chloronaphthalene	0.33	ND	ND	ND
2-Nitroaniline	0.66	ND	ND	ND
Dimethylphthalate	0.33	ND	ND	ND
Acenaphthylene	0.33	ND	ND	ND
2,6-Dinitrotoluene	0.33	ND	ND	ND

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x RL)

ABC Environmental Laboratories, Inc.

Client: Environet
 Project: Powell/2266A4
 Project Site: 963-31/32
 Matrix: Soil
 Extraction Method: 3550B
 Batch No.: 0517-SVOCS

Lab Job No.: EN7E054
 Date Sampled: 5/16/2007
 Date Received: 5/16/2007
 Date Extracted: 5/16/2007
 Date Analyzed: 5/17/2007
 Date Reported: 5/19/2007

EPA 8270C (Semi-VOCs by GC/MS, Page 2 of 2)

Reporting Unit: mg/kg (PPM)

Date Analyzed		05/17/07	05/17/07	05/17/07	05/17/07
Date Extracted		05/16/07	05/16/07	05/16/07	05/16/07
Dilution Factor		1	1	1	1
Lab Sample I.D.		EN7E054-4	EN7E054-17	EN7E054-21	EN7E054-29
Client Sample I.D.		963-31-101-4.5	963-31-104-5	963-32-101-5	963-32-104-5
Compound	RL				
3-Nitroaniline	0.66	ND	ND	ND	ND
Acenaphthene	0.33	ND	ND	ND	ND
2,4-Dinitrophenol	0.33	ND	ND	ND	ND
4-Nitrophenol	0.66	ND	ND	ND	ND
Dibenzofuran	0.33	ND	ND	ND	ND
2,4-Dinitrotoluene	0.33	ND	ND	ND	ND
Diethylphthalate	0.33	ND	ND	ND	ND
Fluorene	0.33	ND	ND	ND	ND
4-Chlorophenyl-phenylether	0.33	ND	ND	ND	ND
4-Nitroaniline	0.33	ND	ND	ND	ND
1,2-Diphenylhydrazine	0.33	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	0.66	ND	ND	ND	ND
N-Nitrosodiphenylamine	0.33	ND	ND	ND	ND
4-Bromophenyl-phenylether	0.33	ND	ND	ND	ND
Hexachlorobenzene	0.33	ND	ND	ND	ND
Pentachlorophenol	0.66	ND	ND	ND	ND
Benzidine	0.33	ND	ND	ND	ND
Phenanthrene	0.33	ND	ND	ND	ND
Anthracene	0.33	ND	ND	ND	ND
Carbazole	0.33	ND	ND	ND	ND
Di-n-butylphthalate	0.33	ND	ND	ND	ND
Fluoranthene	0.33	ND	ND	ND	ND
Pyrene	0.33	ND	ND	ND	ND
Butylbenzylphthalate	0.33	ND	ND	ND	ND
Benzo(a)anthracene	0.33	ND	ND	ND	ND
3,3'-Dichlorobenzidine	0.66	ND	ND	ND	ND
Chrysene	0.33	ND	ND	ND	ND
Bis(2-Ethylhexyl) phthalate	0.33	ND	ND	ND	ND
Di-n-octylphthalate	0.33	ND	ND	ND	ND
Benzo(b)fluoranthene	0.33	ND	ND	ND	ND
Benzo(k)fluoranthene	0.33	ND	ND	ND	ND
Benzo(a)pyrene	0.33	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.33	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.33	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.33	ND	ND	ND	ND

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x RL)

ABC Environmental Laboratories, Inc.

Client:	Environet	Lab Job No.:	EN7E054
Project :	Powell/2266A4	Date Sampled:	5/16/2007
Project Site:	963-31/32	Date Received:	5/16/2007
Matrix:	Soil	Date Analyzed:	5/16/2007
Batch No.:	0515-pHS	Date Reported:	5/19/2007

EPA 9045C (pH)

Unit: pH Unit

Client Sample ID	Lab ID	pH	
963-31-101-4.5	EN7E054-4	7.01	
963-31-104-5	EN7E054-17	6.89	
963-32-101-5	EN7E054-21	6.95	
963-32-104-5	EN7E054-29	7.05	

ABC Environmental Laboratories, Inc.

EPA 9045C (pH) Batch QA/QC Report

Client: Environet
Project: Powell/2266A4
Matrix: Soil
Batch No.: 0517-pHS

Lab Job No.: EN7E054
Sample ID: EN7E054-4
Date Analyzed: 5/17/2007
Date Reported: 5/19/2007

Sample/Sample Dup. Report

Unit: pH unit

Analyte	Sample pH	Sample Duplicate	Difference	Difference Accept Limit
pH	7.01	6.98	0.03	0.05

ABC Environmental Laboratories, Inc.

Mr. T. Wong
Environet
1827 Ximeno #300
Long Beach, CA 90815

6/1/2007

Project: Powell/2266A4
Project Site: 963-32
Sample Date: 5/30/2007
Lab Job No.: EN7E081

Dear Mr. T. Wong:

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 5/30/07 and analyzed by the following EPA methods:

EPA 7420 (TTLC-Lead)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (562) 699-7288 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



Enclosures

This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories, Inc.

Client:	Environet	Lab Job No.:	EN7E081
Project:	Powell/2266A4	Date Sampled:	5/30/2007
Project Site:	963-32	Date Received:	5/30/2007
Matrix:	Soil	Date Digested:	5/31/2007
Digestion Method:	3050B	Date Analyzed:	5/31/2007
Batch No.:	0531-Pb-S	Date Reported:	6/1/2007

EPA 7420 (Pb)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab Sample ID	Lead (Pb)	Reporting Limit
963-32-101-10	EN7E081-1	9.0	2.5
963-32-101-15	EN7E081-2	5.7	2.5
963-32-101-17	EN7E081-3	6.5	2.5
963-32-102-10	EN7E081-4	6.7	2.5
963-32-103-10	EN7E081-5	9.4	2.5
963-32-103-12	EN7E081-6	3.7	2.5
963-32-104-10	EN7E081-7	8.8	2.5
963-32-104-12	EN7E081-8	6.8	2.5

ND: Not Detected (Below Reporting Limit).

ABC Environmental Laboratories, Inc.

EPA 7420 (Total Lead) Batch QA/QC Report

Client: Environet
Project: Powell/2266A4
Matrix: Soil
Digestion Method: 3050B
Batch No.: 0531-Pb-S

Lab Job No.: EN7E081
Lab Sample ID: LCS
Date Received: 5/30/2007
Date Analyzed: 5/31/2007
Date Reported: 6/1/2007

LCS/LCSD Report

Unit: mg/kg

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Lead (Pb)	7420	ND	50.0	51.6	52.8	103	106	2	<20	80-120

ND: Not Detected (Below Reporting Limit).

ABC Environmental Laboratories, Inc.

Mr. T. Wong
Environet
1827 Ximeno #300
Long Beach, CA 90815

5/24/2007

Project: Powell/2266A4
Project Site: 963-4/5/7/13/9/10/11/21/22//23/24/25/26/28/31/32
Sample Date: 4/27-5/16/2007
Lab Job No.: EN7E067

Dear Mr. T. Wong:

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 4/27-5/16/07 and analyzed by the following EPA methods:

STLC Lead & DI-Wet Lead

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (562) 699-7288 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



Enclosures

This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories, Inc.

Client:	Environet	Lab Job No.:	EN7E067
Project:	Powell/2266A4	Date Sampled:	5/16/2007
Project Site:	963-31/32	Date Received:	5/16/2007
Matrix:	STLC Extract	Date Digested:	5/20/2007
Digestion Method:	3010	Date Analyzed:	5/21/2007
Batch No.:	0521-Pb-W3	Date Reported:	5/24/2007

STLC Lead

Reporting Unit: mg/L (PPM)

Client Sample ID	Lab Sample ID	Lead (Pb)	Reporting Limit
963-31-101-2	EN7E054-3	5.02	0.1
963-31-102-0	EN7E054-5	2.75	0.1
963-31-103-0	EN7E054-9	9.20	0.1
963-31-103-1	EN7E054-10	2.23	0.1
963-31-103-3	EN7E054-12	2.32	0.1
963-31-104-1	EN7E054-14	7.02	0.1
963-31-104-2	EN7E054-15	2.25	0.1
963-32-101-0	EN7E054-18	2.31	0.1
963-32-102-0	EN7E054-22	4.14	0.1
963-32-104-0	EN7E054-26	3.01	0.1
963-32-103-0	EN7E054-30	2.67	0.1

Extraction Method: Waste Extraction Test (WET) Procedures, Title 22, Cal Wet 66700

Date Extracted: 5/18/2007 12:00PM to 05/20/2007 12:00PM

ABC Environmental Laboratories, Inc.

STLC Lead Batch QA/QC Report

Client: Environet
Project: Powell/2266A4
Matrix: STLC Extract
Digestion Method: 3010
Batch No.: 0521-Pb-W1

Lab Job No.: EN7E067
Sample ID: LCS
Date Analyzed: 5/21/2007
Date Reported: 5/24/2007

LCS/LCSD Report

Unit: mg/L

Element	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Lead (Pb)	ND	4.76	4.57	4.3	96	90	6	<20	80-120

ND: Not Detected (Below Reporting Limit).

ABC Environmental Laboratories, Inc.

STLC Lead Batch QA/QC Report

Client: Environet
Project: Powell/2266A4
Matrix: STLC Extract
Digestion Method: 3010
Batch No.: 0521-Pb-W2

Lab Job No.: EN7E067
Sample ID: EN7E046-5
Date Analyzed: 5/21/2007
Date Reported: 5/24/2007

LCS Report

Unit: mg/L

Elment	Method Blank	Report Value	True Value	Rec.%	Accept Limit
Lead (Pb)	ND	52.4	50.0	105	80-120

MS/MSD Report

Unit: mg/L

Element	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Lead (Pb)	1.01	50.0	51.8	52.5	102	103	1	30	70-130

ND: Not Detected (Below Reporting Limit).

ABC Environmental Laboratories, Inc.

STLC Lead Batch QA/QC Report

Client: Environet
Project: Powell/2266A4
Matrix: STLC Extract
Digestion Method: 3010
Batch No.: 0521-Pb-W3

Lab Job No.: EN7E067
Sample ID: LCS
Date Analyzed: 5/21/2007
Date Reported: 5/24/2007

LCS/LCSD Report

Unit: mg/L

Element	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Lead (Pb)	ND	4.76	4.57	4.3	96	90	6	<20	80-120

ND: Not Detected (Below Reporting Limit).

ABC Environmental Laboratories, Inc.

Client:	Environet	Lab Job No.:	EN7E067
Project:	Powell/2266A4	Date Sampled:	5/16/2007
Project Site:	963-31/32	Date Received:	5/16/2007
Matrix:	DI-Wet Extract	Date Digested:	5/23/2007
Digestion Method:	3010	Date Analyzed:	5/23/2007
Batch No.:	0523-Pb-W2	Date Reported:	5/24/2007

DI-Wet Lead

Reporting Unit: mg/L (PPM)

Client Sample ID	Lab Sample ID	Lead (Pb)	Reporting Limit
963-31-101-2	EN7E054-3	0.47	0.1
963-31-103-0	EN7E054-9	0.45	0.1
963-31-104-1	EN7E054-14	0.41	0.1

Extraction Method: Waste Extraction Test (WET) Procedures, Title 22, Cal Wet 66700

Date Extracted: 5/21/2007 12:00PM to 05/23/2007 12:00PM

ABC Environmental Laboratories, Inc.

DI-Wet Lead Batch QA/QC Report

Client: Environet
Project: Powell/2266A4
Matrix: DI-Wet Extract
Digestion Method: 3010
Batch No.: 0523-Pb-W2

Lab Job No.: EN7E067
Sample ID: EN7E046-4
Date Analyzed: 5/23/2007
Date Reported: 5/24/2007

LCS Report

Unit: mg/L

Element	Method Blank	Report Value	True Value	Rec.%	Accept Limit
Lead (Pb)	ND	51.3	50.0	103	80-120

MS/MSD Report

Unit: mg/L

Element	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Lead (Pb)	0.51	50.0	51.0	50.8	101	101	0	30	70-130

ND: Not Detected (Below Reporting Limit).

ABC Environmental Laboratories, Inc.

DI-Wet Lead Batch QA/QC Report

Client: Environet
Project: Powell/2266A4
Matrix: DI-Wet Extract
Digestion Method: 3010
Batch No.: 0523-Pb-W1

Lab Job No.: EN7E067
Sample ID: EN7E026-37
Date Analyzed: 5/23/2007
Date Reported: 5/24/2007

LCS Report

Unit: mg/L

Element	Method Blank	Report Value	True Value	Rec.%	Accept Limit
Lead (Pb)	ND	45.1	50.0	90	80-120

MS/MSD Report

Unit: mg/L

Element	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Lead (Pb)	0.9	50.0	51.3	51.9	101	102	1	30	70-130

ND: Not Detected (Below Reporting Limit).

ABC Environmental Laboratories, Inc.

Mr. T. Wong
Environet
1827 Ximeno #300
Long Beach, CA 90815

5/24/2007

Project: Powell/2266A4
Project Site: 963-31/32
Sample Date: 5/16/2007
Lab Job No.: EN7E053

Dear Mr. Terry Wong:

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 5/16/07 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8081A(Organochlorine Pesticides)
EPA 8015M (Gasoline & Diesel)
EPA 7420 (TTLIC-Lead)
EPA 8270C (Semi-VOCs)
EPA 9040B (pH)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (562) 699-7288 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



Enclosures

This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories, Inc.

Client: Environet
 Project: Powell/2266A4
 Project Site: 963-31/32
 Matrix: Water
 Extraction Method: EPA 3510C
 Batch No.: 0521-PES-W

Lab Job No.: EN7E053
 Date Sampled: 5/16/2007
 Date Received: 5/16/2007
 Date Extracted: 5/20/2007
 Date Analyzed: 5/21/2007
 Date Reported: 5/24/2007

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/L (PPB)

Dilution Factor		1	1		
Lab Sample I.D.		EN7E053-2	EN7E053-3		
Client Sample I.D.		963-31/32-Field/EQ	963-31/32-EQ1		
Compound	RL				
α-BHC	0.1	ND	ND		
γ-BHC	0.1	ND	ND		
Heptachlor	0.1	ND	ND		
Aldrin	0.1	ND	ND		
β-BHC	0.1	ND	ND		
δ-BHC	0.1	ND	ND		
Heptachlor Epoxide	0.1	ND	ND		
Endosulfan I	0.1	ND	ND		
4,4'-DDE	0.2	ND	ND		
Dieldrin	0.2	ND	ND		
Endrin	0.2	ND	ND		
Endosulfan II	0.2	ND	ND		
4,4'-DDD	0.2	ND	ND		
4,4'-DDT	0.2	ND	ND		
Endrin Aldehyde	0.2	ND	ND		
Endosulfan Sulfate	0.2	ND	ND		
Methoxychlor	1	ND	ND		
Endrin Ketone	0.2	ND	ND		
Chlordane	1	ND	ND		
Toxaphene	4	ND	ND		

ND: Not Detected (Below DF x RL).

RL: Reporting Limit

ABC Environmental Laboratories, Inc.

EPA Method 8081A Batch QA/QC Report

Client: Environet
Project: Powell/2266A4
Matrix: Water
Batch No.: 0521-PES-W

Lab Job No.: EN7E053
Lab Sample ID: LCS
Date Analyzed: 5/21/2007
Date Reported: 5/24/2007

LCS/LCSD Report

Unit:ug/L (PPB)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	30	17.1	19.1	57	64	11	<30	50-150
Heptachlor	ND	30	28.0	26.3	93	88	6	<30	50-150
Aldrin	ND	30	26.7	34.1	89	114	24	<30	50-140
Dieldrin	ND	60	55.2	54.7	92	91	1	<30	70-130
Endrin	ND	60	49.5	42.6	83	71	15	<30	70-150
4,4'-DDT	ND	60	63.9	57.8	107	96	10	<30	30-130

ND: Not Detected (Below Reporting Limit).

ABC Environmental Laboratories, Inc.

Client: Environet
 Project : Powell/2266A4
 Project Site: 963-31/32
 Matrix: Water
 Batch No.: 0516-VOCW

Lab Job No.: EN7E053
 Date Sampled: 5/16/2007
 Date Received: 5/16/2007
 Date Analyzed: 5/16/2007
 Date Reported: 5/24/2007

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: ug/L (PPB)

Date Analyzed	05/16/07	05/16/07	05/16/07	
Dilution Factor	1	1	1	
Lab Sample I.D.	EN7E053-1	EN7E053-2	EN7E053-3	
Client Sample I.D.	963-31/32-Trip	963-31/32-Field/EQ	963-31/32-EQ1	
Compound	RL			
Dichlorodifluoromethane	5	ND	ND	ND
Chloromethane	5	ND	ND	ND
Vinyl Chloride	5	ND	ND	ND
Bromomethane	5	ND	ND	ND
Chloroethane	5	ND	ND	ND
Trichlorofluoromethane	5	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND
Methyl iodide	5	ND	ND	ND
Carbon disulfide	5	ND	ND	ND
Methylene chloride	5	ND	ND	ND
Trans-1,2-Dichloroethene	5	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND
2,2-Dichloropropane	5	ND	ND	ND
Cis-1,2-Dichloroethene	5	ND	ND	ND
Bromochloromethane	5	ND	ND	ND
Chloroform	5	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND
Vinyl acetate	5	ND	ND	ND
Carbontetrachloride	5	ND	ND	ND
1,1-Dichloropropene	5	ND	ND	ND
1,2-Dichloroethane	5	ND	ND	ND
Benzene	2	ND	ND	ND
Trichloroethene	5	ND	ND	ND
1,2-Dichloropropane	5	ND	ND	ND
Methyl methacrylate	5	ND	ND	ND
Dibromomethane	5	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND
2-Chloroethyl Vinyl Ether	5	ND	ND	ND
Cis-1,3-Dichloropropene	5	ND	ND	ND
Toluene	2	ND	ND	ND
Trans-1,3-Dichloropropene	5	ND	ND	ND
Ethylmethacrylate	5	ND	ND	ND
1,1,2-Trichloroethane	5	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND
1,2-Dibromoethane (EDB)	5	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND
1,3-Dichloropropane	5	ND	ND	ND
Chlorobenzene	5	ND	ND	ND

RL=Reporting Limit; ND=Not Detected (Below DFx RL)

ABC Environmental Laboratories, Inc.

Client: Environet
 Project : Powell/2266A4
 Project Site: 963-31/32
 Matrix: Water
 Batch No.: 0512-VOCW

Lab Job No.: EN7E053
 Date Sampled: 5/16/2007
 Date Received: 5/16/2007
 Date Analyzed: 5/20/2007
 Date Reported: 5/24/2007

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: ug/L (PPB)

Date Analyzed		05/16/07	05/16/07	05/16/07	
Dilution Factor		1	1	1	
Lab Sample I.D.		EN7E053-1	EN7E053-2	EN7E053-3	
Client Sample I.D.		963-31/32-Trip	963-31/32-Field/EQ	963-31/32-EQ1	
Compound	RL				
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	
Ethylbenzene	2	ND	ND	ND	
Total Xylene	4	ND	ND	ND	
Styrene	5	ND	ND	ND	
Bromoform	5	ND	ND	ND	
Isopropyl benzene	5	ND	ND	ND	
Bromobenzene	5	ND	ND	ND	
1,2,3-Trichloropropane	5	ND	ND	ND	
1,1,2,2,-Tetrachloroethane	5	ND	ND	ND	
Trans-1,4-dichloro-2-butene	5	ND	ND	ND	
2-Chlorotoluene	5	ND	ND	ND	
n-Propyl benzene	5	ND	ND	ND	
4-Chlorotoluene	5	ND	ND	ND	
1,3,5-Trimethyl benzene	5	ND	ND	ND	
tert-Butylbenzene	5	ND	ND	ND	
p-Isopropyl toluene	2	ND	ND	ND	
1,2,4-Trimethyl benzene	5	ND	ND	ND	
sec-Butylbenzene	5	ND	ND	ND	
1,3-Dichlorobenzene	5	ND	ND	ND	
1,4-Dichlorobenzene	5	ND	ND	ND	
1,2-Dichlorobenzene	5	ND	ND	ND	
n-Butylbenzene	5	ND	ND	ND	
1,2-Dibromo-3-chloropropan	5	ND	ND	ND	
1,2,4-Trichlorobenzene	5	ND	ND	ND	
Hexachlorobutadiene	5	ND	ND	ND	
Naphthalene	5	ND	ND	ND	
1,2,3-Trichlorobenzene	5	ND	ND	ND	
Aceton	25	ND	ND	ND	
2-Butanone(MEK)	25	ND	ND	ND	
4-Methyl-2-Pentanone (MIBK)	25	ND	ND	ND	
MTBE	2	ND	ND	ND	
Ethyl-t-butyl Ether(ETBE)	2	ND	ND	ND	
Diisopropyl ether (DIPE)	2	ND	ND	ND	
TAME	2	ND	ND	ND	
t-Butanol	15	ND	ND	ND	

RL=Reporting Limit; ND=Not Detected (Below DFx RL)

ABC Environmental Laboratories, Inc.

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client: Environet
Project: Powell/2266A4
Matrix: Water
Batch No.: 0516-VOCW

Lab Job No.: EN7E053
Lab Sample ID: LCS
Date Analyzed: 5/16/2007
Date Reported: 5/24/2007

LCS/LCSD Report

Unit: ug/L

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	20	19.0	18.3	95	92	4	20	80-120
Benzene	ND	20	21.1	20.5	106	103	3	20	80-120
Trichloroethene	ND	20	19.9	19.3	100	97	3	20	80-120
Toluene	ND	20	20.9	20.2	105	101	3	20	80-120
Chlorobenzene	ND	20	18.4	18.3	92	92	1	20	80-120

ND: Not Detected (at the specified limit).

ABC Environmental Laboratories, Inc.

Client:	Environet	Lab Job No.:	EN7E053
Project:	Powell/2266A4	Date Sampled:	5/16/2007
Project Site:	963-31/32	Date Received:	5/16/2007
Matrix:	Water	Date Digested:	5/17/2007
Digestion Method:	3010C	Date Analyzed:	5/18/2007
Batch No.:	0518-Pb-W	Date Reported:	5/24/2007

EPA 7420 (Pb)

Reporting Unit: mg/L (PPM)

Client Sample ID	Lab Sample ID	Lead (Pb)	Reporting Limit
963-31/32-Field/EQ	EN7E053-2	ND	0.05
963-31/32-EQ1	EN7E053-3	ND	0.05

ND: Not Detected (Below Reporting Limit).

ABC Environmental Laboratories, Inc.

EPA 7420 (Total Lead) Batch QA/QC Report

Client: Environet
Project: Powell/2266A4
Matrix: Water
Digestion Method: 3010C
Batch No.: 0518-Pb-W

Lab Job No.: EN7E053
Sample ID: EN7E040-2
Date Received: 5/16/2007
Date Analyzed: 5/18/2007
Date Reported: 5/24/2007

LCS Report

Unit: mg/L

Element	EPA Method	Method Blank	Report Value	True Value	Rec.%	Accept Limit
Lead (Pb)	7420	ND	46.5	50.0	93	80-120

MS/MSD Report

Unit: mg/L

Element	EPA Method	Method Blank	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Lead (Pb)	7420	ND	50.0	50.6	52.1	101	104	3	30	70-130

ND: Not Detected (Below Reporting Limit).

ABC Environmental Laboratories, Inc.

Client:	Environet	Lab Job No.:	EN7E053
Project :	Powell/2266A4	Date Sampled:	5/16/2007
Project Site:	963-31/32	Date Received:	5/16/2007
Matrix:	Water	Date Analyzed:	TPH-G 5/17/2007
Batch No.:	AE17-GW (TPH-G)	Date Analyzed:	TPH-D 5/17/2007
Batch No.:	BE17-DW (TPH-D)	Date Reported:	5/24/2007

EPA 8015M (TPH-Gasoline & Diesel)

Reporting Unit: ug/L (PPB)

Client Sample ID	Lab ID	Gasoline	Diesel		
		C4-C10	C10-C28		
	Reporting Limit	50	500		
963-31/32-Trip	EN7E053-1	ND	ND		
963-31/32-Field/EQ	EN7E053-2	ND	ND		
963-31/32-EQ1	EN7E053-3	ND	ND		

ND: Not Detected (Below Reporting Limit)

ABC Environmental Laboratories, Inc.

EPA 8015M (TPH-Diesel) Batch QA/QC Report

Client: Environet
Project: Powell/2266A4
Matrix: Water
Batch No.: BE17-DW

Lab Job No.: EN7E053
Lab Sample ID: LCS
Date Analyzed: 5/17/2007
Date Reported: 5/24/2007

LCS/LCSD Report

Unit: ug/L

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	524	485	105	97	8	<20	80-120

EPA 8015M (TPH-Gasoline) Batch QA/QC Report

Client: Environet
Project: Powell/2266A4
Matrix: Water
Batch No.: AE17-GW

Lab Job No.: EN7E053
Lab Sample ID: LCS
Date Analyzed: 5/17/2007
Date Reported: 5/24/2007

LCS/LCSD Report

Unit: ug/L

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-G	ND	1,000	986	1,020	99	102	3.4	20	80-120

ND: Not Detected (at the specified limit)

ABC Environmental Laboratories, Inc.

Client: Environet
 Project: Powell/2266A4
 Project Site: 963-31/32
 Matrix: Water
 Extraction Method: 3510C
 Batch No.: 0520-SVOCW

Lab Job No.: EN7E053
 Date Sampled: 5/16/2007
 Date Received: 5/16/2007
 Date Extracted: 5/20/2007
 Date Analyzed: 5/20/2007
 Date Reported: 5/24/2007

EPA 8270C (Semi-VOCs by GC/MS, Page 1 of 2)

Reporting Unit: ug/L (PPB)

Date Analyzed		05/20/07	05/20/07		
Date Extracted		05/20/07	05/20/07		
Dilution Factor		1	1		
Lab Sample I.D.		EN7E053-2	EN7E053-3		
Client Sample I.D.		963-31/32-Field/EQ	963-31/32-EQ1		
Compound	RL				
N-Nitrosodimethylamine	10	ND	ND		
Pyridine	10	ND	ND		
Aniline	10	ND	ND		
Bis(2-chloroethyl) ether	10	ND	ND		
Phenol	10	ND	ND		
2-Chlorophenol	10	ND	ND		
1,3-Dichlorobenzene	10	ND	ND		
1,4-Dichlorobenzene	10	ND	ND		
Benzyl alcohol	10	ND	ND		
1,2-Dichlorobenzene	10	ND	ND		
2-Methylphenol	10	ND	ND		
Bis(2-chloroisopropyl) ether	10	ND	ND		
4-Methylphenol	10	ND	ND		
N-Nitroso-di-n-propyl	10	ND	ND		
Hexachloroethane	10	ND	ND		
Nitrobenzene	10	ND	ND		
Isophorone	10	ND	ND		
2-Nitrophenol	10	ND	ND		
2,4-Dimethylphenol	10	ND	ND		
Bis(2-Chloroethoxy) methane	10	ND	ND		
Benzoic Acid	10	ND	ND		
2,4-Dichlorophenol	10	ND	ND		
1,2,4-Trichlorobenzene	10	ND	ND		
Naphthalene	10	ND	ND		
4-Chloroaniline	10	ND	ND		
Hexachlorobutadiene	10	ND	ND		
4-Chloro-3-methylphenol	10	ND	ND		
2-Methylnaphthalene	10	ND	ND		
Hexachlorocyclopentadiene	10	ND	ND		
2,4,6-Trichlorophenol	10	ND	ND		
2,4,5-Trichlorophenol	10	ND	ND		
2-Chloronaphthalene	10	ND	ND		
2-Nitroaniline	10	ND	ND		
Dimethylphthalate	10	ND	ND		
Acenaphthylene	10	ND	ND		
2,6-Dinitrotoluene	10	ND	ND		

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x RL)

ABC Environmental Laboratories, Inc.

Client: Environet
 Project: Powell/2266A4
 Project Site: 963-31/32
 Matrix: Water
 Extraction Method: 3510C
 Batch No.: 0520-SVOCW

Lab Job No.: EN7E053
 Date Sampled: 5/16/2007
 Date Received: 5/16/2007
 Date Extracted: 5/20/2007
 Date Analyzed: 5/20/2007
 Date Reported: 5/24/2007

EPA 8270C (Semi-VOCs by GC/MS, Page 2 of 2)

Reporting Unit: ug/L (PPB)

Date Analyzed		05/20/07	05/20/07		
Date Extracted		05/20/07	05/20/07		
Dilution Factor		1	1		
Lab Sample I.D.		EN7E053-2	EN7E053-3		
Client Sample I.D.		963-31/32-Field/EQ	963-31/32-EQ1		
Compound	RL				
3-Nitroaniline	10	ND	ND		
Acenaphthene	10	ND	ND		
2,4-Dinitrophenol	10	ND	ND		
4-Nitrophenol	10	ND	ND		
Dibenzofuran	10	ND	ND		
2,4-Dinitrotoluene	10	ND	ND		
Diethylphthalate	10	ND	ND		
Fluorene	10	ND	ND		
4-Chlorophenyl-phenylether	10	ND	ND		
4-Nitroaniline	10	ND	ND		
1,2-Diphenylhydrazine	10	ND	ND		
4,6-Dinitro-2-methylphenol	10	ND	ND		
N-Nitrosodiphenylamine	10	ND	ND		
4-Bromophenyl-phenylether	10	ND	ND		
Hexachlorobenzene	10	ND	ND		
Pentachlorophenol	10	ND	ND		
Benzidine	10	ND	ND		
Phenanthrene	10	ND	ND		
Anthracene	10	ND	ND		
Carbazole	10	ND	ND		
Di-n-butylphthalate	10	ND	ND		
Fluoranthene	10	ND	ND		
Pyrene	10	ND	ND		
Butylbenzylphthalate	10	ND	ND		
Benzo(a)anthracene	10	ND	ND		
3,3'-Dichlorobenzidine	10	ND	ND		
Chrysene	10	ND	ND		
Bis(2-Ethylhexyl) phthalate	10	ND	ND		
Di-n-octylphthalate	10	ND	ND		
Benzo(b)fluoranthene	10	ND	ND		
Benzo(k)fluoranthene	10	ND	ND		
Benzo(a)pyrene	10	ND	ND		
Indeno(1,2,3-cd)pyrene	10	ND	ND		
Dibenzo(a,h)anthracene	10	ND	ND		
Benzo(g,h,i)perylene	10	ND	ND		

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x RL)

ABC Environmental Laboratories, Inc.

Client:	Environet	Lab Job No.:	EN7E053
Project :	Powell/2266A4	Date Sampled:	5/16/2007
Project Site:	963-31/32	Date Received:	5/16/2007
Matrix:	Water	Date Analyzed:	5/16/2007
Batch No.:	0516-pHW	Date Reported:	5/24/2007

EPA 9040B (pH)

Unit: pH Unit

Client Sample ID	Lab ID	pH	
963-31/32-Field/EQ	EN7E053-2	5.70	
963-31/32-EQ1	EN7E053-3	5.68	

ABC Environmental Laboratories, Inc.

EPA 9040B (pH) Batch QA/QC Report

Client: Environet
Project: Powell/2266A4
Matrix: Water
Batch No.: 0516-pHW

Lab Job No.: EN7E053
Sample ID: EN7E053-2
Date Analyzed: 5/16/2007
Date Reported: 5/24/2007

Sample/Sample Dup. Report

Unit: pH unit

Analyte	Sample pH	Sample Duplicate	Difference	Difference Accept Limit
pH	5.7	5.68	0.02	0.05

ABC Environmental Laboratories, Inc.

Mr. T. Wong
Environet
1827 Ximeno #300
Long Beach, CA 90815

6/1/2007

Project: Powell/2266A4
Project Site: 963-32
Sample Date: 5/30/2007
Lab Job No.: EN7E082

Dear Mr. Terry Wong:

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 5/30/07 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8081A(Organochlorine Pesticides)
EPA 8015M (Gasoline & Diesel)
EPA 7420 (TTLC-Lead)
EPA 8270C (Semi-VOCs)
EPA 9040B (pH)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (562) 699-7288 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



Enclosures

This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories, Inc.

Client: Environet
 Project: Powell/2266A4
 Project Site: 963-32
 Matrix: Water
 Extraction Method: EPA 3510C
 Batch No.: 0531-PES-W

Lab Job No.: EN7E082
 Date Sampled: 5/30/2007
 Date Received: 5/30/2007
 Date Extracted: 5/31/2007
 Date Analyzed: 5/31/2007
 Date Reported: 6/1/2007

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/L (PPB)

Dilution Factor	1				
Lab Sample I.D.	EN7E082-2				
Client Sample I.D.	963-32-Field/EQ				
Compound	RL				
α-BHC	0.1	ND			
γ-BHC	0.1	ND			
Heptachlor	0.1	ND			
Aldrin	0.1	ND			
β-BHC	0.1	ND			
δ-BHC	0.1	ND			
Heptachlor Epoxide	0.1	ND			
Endosulfan I	0.1	ND			
4,4'-DDE	0.2	ND			
Dieldrin	0.2	ND			
Endrin	0.2	ND			
Endosulfan II	0.2	ND			
4,4'-DDD	0.2	ND			
4,4'-DDT	0.2	ND			
Endrin Aldehyde	0.2	ND			
Endosulfan Sulfate	0.2	ND			
Methoxychlor	1	ND			
Endrin Ketone	0.2	ND			
Chlordane	1	ND			
Toxaphene	4	ND			

ND: Not Detected (Below DF x RL).

RL: Reporting Limit

ABC Environmental Laboratories, Inc.

EPA Method 8081A Batch QA/QC Report

Client: Environet
Project: Powell/2266A4
Matrix: Water
Batch No.: 0531-PES-W

Lab Job No.: EN7E082
Lab Sample ID: LCS
Date Analyzed: 5/31/2007
Date Reported: 6/1/2007

LCS/LCSD Report

Unit:ug/L (PPB)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	30	25.6	26.1	85	87	2	<30	50-150
Heptachlor	ND	30	27.1	26.8	90	89	1	<30	50-150
Aldrin	ND	30	26.3	27.9	88	93	6	<30	50-140
Dieldrin	ND	60	50.5	53.1	84	89	5	<30	70-130
Endrin	ND	60	45.9	50.2	77	84	9	<30	70-150
4,4'-DDT	ND	60	50.2	51.3	84	86	2	<30	30-130

ND: Not Detected (Below Reporting Limit).

ABC Environmental Laboratories, Inc.

Client: Environet
 Project : Powell/2266A4
 Project Site: 963-32
 Matrix: Water
 Batch No.: 0531-VOCW

Lab Job No.: EN7E082
 Date Sampled: 5/30/2007
 Date Received: 5/30/2007
 Date Analyzed: 5/31/2007
 Date Reported: 6/1/2007

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: ug/L (PPB)

Date Analyzed		05/25/07	05/25/07		
Dilution Factor		1	1		
Lab Sample I.D.		EN7E082-1	EN7E082-2		
Client Sample I.D.		963-32-Trip	963-32-Field/EQ		
Compound	RL				
Dichlorodifluoromethane	5	ND	ND		
Chloromethane	5	ND	ND		
Vinyl Chloride	5	ND	ND		
Bromomethane	5	ND	ND		
Chloroethane	5	ND	ND		
Trichlorofluoromethane	5	ND	ND		
1,1-Dichloroethene	5	ND	ND		
Methyl iodide	5	ND	ND		
Carbon disulfide	5	ND	ND		
Methylene chloride	5	ND	ND		
Trans-1,2-Dichloroethene	5	ND	ND		
1,1-Dichloroethane	5	ND	ND		
2,2-Dichloropropane	5	ND	ND		
Cis-1,2-Dichloroethene	5	ND	ND		
Bromochloromethane	5	ND	ND		
Chloroform	5	ND	ND		
1,1,1-Trichloroethane	5	ND	ND		
Vinyl acetate	5	ND	ND		
Carbontetrachloride	5	ND	ND		
1,1-Dichloropropene	5	ND	ND		
1,2-Dichloroethane	5	ND	ND		
Benzene	2	ND	ND		
Trichloroethene	5	ND	ND		
1,2-Dichloropropane	5	ND	ND		
Methyl methacrylate	5	ND	ND		
Dibromomethane	5	ND	ND		
Bromodichloromethane	5	ND	ND		
2-Chloroethyl Vinyl Ether	5	ND	ND		
Cis-1,3-Dichloropropene	5	ND	ND		
Toluene	2	ND	ND		
Trans-1,3-Dichloropropene	5	ND	ND		
Ethylmethacrylate	5	ND	ND		
1,1,2-Trichloroethane	5	ND	ND		
Dibromochloromethane	5	ND	ND		
1,2-Dibromoethane (EDB)	5	ND	ND		
Tetrachloroethene	5	ND	ND		
1,3-Dichloropropane	5	ND	ND		
Chlorobenzene	5	ND	ND		

RL=Reporting Limit; ND=Not Detected (Below DFx RL)

ABC Environmental Laboratories, Inc.

Client: Environet
 Project : Powell/2266A4
 Project Site: 963-32
 Matrix: Water
 Batch No.: 0531-VOCW

Lab Job No.: EN7E082
 Date Sampled: 5/30/2007
 Date Received: 5/30/2007
 Date Analyzed: 5/31/2007
 Date Reported: 6/1/2007

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: ug/L (PPB)

Date Analyzed		05/25/07	05/25/07		
Dilution Factor		1	1		
Lab Sample I.D.		EN7E082-1	EN7E082-2		
Client Sample I.D.		963-32-Trip	963-32-Field/EQ		
Compound	RL				
1,1,1,2-Tetrachloroethane	5	ND	ND		
Ethylbenzene	2	ND	ND		
Total Xylene	4	ND	ND		
Styrene	5	ND	ND		
Bromoform	5	ND	ND		
Isopropyl benzene	5	ND	ND		
Bromobenzene	5	ND	ND		
1,2,3-Trichloropropane	5	ND	ND		
1,1,2,2,-Tetrachloroethane	5	ND	ND		
Trans-1,4-dichloro-2-butene	5	ND	ND		
2-Chlorotoluene	5	ND	ND		
n-Propyl benzene	5	ND	ND		
4-Chlorotoluene	5	ND	ND		
1,3,5-Trimethyl benzene	5	ND	ND		
tert-Butylbenzene	5	ND	ND		
p-Isopropyl toluene	2	ND	ND		
1,2,4-Trimethyl benzene	5	ND	ND		
sec-Butylbenzene	5	ND	ND		
1,3-Dichlorobenzene	5	ND	ND		
1,4-Dichlorobenzene	5	ND	ND		
1,2-Dichlorobenzene	5	ND	ND		
n-Butylbenzene	5	ND	ND		
1,2-Dibromo-3-chloropropan	5	ND	ND		
1,2,4-Trichlorobenzene	5	ND	ND		
Hexachlorobutadiene	5	ND	ND		
Naphthalene	5	ND	ND		
1,2,3-Trichlorobenzene	5	ND	ND		
Aceton	25	ND	ND		
2-Butanone(MEK)	25	ND	ND		
4-Methyl-2-Pentanone (MIBK)	25	ND	ND		
MTBE	2	ND	ND		
Ethyl-t-butyl Ether(ETBE)	2	ND	ND		
Diisopropyl ether (DIPE)	2	ND	ND		
TAME	2	ND	ND		
t-Butanol	15	ND	ND		

RL=Reporting Limit; ND=Not Detected (Below DFx RL)

ABC Environmental Laboratories, Inc.

EPA 8260B (VOCs & Oxy.)

Batch QA/QC Report

Client: Environet
Project: Powell/2266A4
Matrix: Water
Batch No.: 0531-VOCW

Lab Job No.: EN7E082
Lab Sample ID: LCS
Date Analyzed: 5/31/2007
Date Reported: 6/1/2007

LCS/LCSD Report

Unit: ug/L

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	20	18.6	19.4	93	97	4	20	80-120
Benzene	ND	20	17.1	19.2	86	96	12	20	80-120
Trichloroethene	ND	20	19.2	18.6	96	93	3	20	80-120
Toluene	ND	20	18.5	17.6	93	88	5	20	80-120
Chlorobenzene	ND	20	16.5	17.5	83	88	6	20	80-120

ND: Not Detected (at the specified limit).

ABC Environmental Laboratories, Inc.

Client:	Environet	Lab Job No.:	EN7E082
Project:	Powell/2266A4	Date Sampled:	5/30/2007
Project Site:	963-32	Date Received:	5/30/2007
Matrix:	Water	Date Digested:	5/31/2007
Digestion Method:	3010C	Date Analyzed:	5/31/2007
Batch No.:	0531-Pb-W	Date Reported:	6/1/2007

EPA 7420 (Pb)

Reporting Unit: mg/L (PPM)

Client Sample ID	Lab Sample ID	Lead (Pb)	Reporting Limit
963-32-Field/EQ	EN7E082-2	ND	0.05

ND: Not Detected (Below Reporting Limit).

ABC Environmental Laboratories, Inc.

EPA 7420 (Total Lead) Batch QA/QC Report

Client: Environet
 Project: Powell/2266A4
 Matrix: Water
 Digestion Method: 3010C
 Batch No.: 0531-Pb-W

Lab Job No.: EN7E082
 Sample ID: EN7E082-2
 Date Received: 5/30/2007
 Date Analyzed: 5/31/2007
 Date Reported: 6/1/2007

LCS Report

Unit: mg/L

Element	EPA Method	Method Blank	Report Value	True Value	Rec.%	Accept Limit
Lead (Pb)	7420	ND	55.1	50.0	110	80-120

MS/MSD Report

Unit: mg/L

Element	EPA Method	Method Blank	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Lead (Pb)	7420	ND	50.0	56.2	53.5	112	107	5	30	70-130

ND: Not Detected (Below Reporting Limit).

ABC Environmental Laboratories, Inc.

Client:	Environet	Lab Job No.:	EN7E082
Project :	Powell/2266A4	Date Sampled:	5/30/2007
Project Site:	963-32	Date Received:	5/30/2007
Matrix:	Water	Date Analyzed:	TPH-G 5/31/2007
Batch No.:	AE31-GW (TPH-G)	Date Analyzed:	TPH-D 5/31/2007
Batch No.:	BE31-DW (TPH-D)	Date Reported:	6/1/2007

EPA 8015M (TPH-Gasoline & Diesel)

Reporting Unit: ug/L (PPB)

Client Sample ID	Lab ID	Gasoline	Diesel		
		C4-C10	C10-C28		
	Reporting Limit	50	500		
963-32-Trip	EN7E082-1	ND	ND		
963-32-Field/EQ	EN7E082-2	ND	ND		

ND: Not Detected (Below Reporting Limit)

ABC Environmental Laboratories, Inc.

EPA 8015M (TPH-Diesel) Batch QA/QC Report

Client: Environet
Project: Powell/2266A4
Matrix: Water
Batch No.: BE31-DW

Lab Job No.: EN7E082
Lab Sample ID: LCS
Date Analyzed: 5/31/2007
Date Reported: 6/1/2007

LCS/LCSD Report

Unit: ug/L

Analyte	Method	Spike	LCS	LCSD	LCS	LCSD	%RPD	%RPD	%Rec
	Blank	Conc.			%Rec.	%rec.		Accept	Accept
								Limit	Limit
TPH-D	ND	500	515	506	103	101	2	<20	80-120

EPA 8015M (TPH-Gasoline) Batch QA/QC Report

Client: Environet
Project: Powell/2266A4
Matrix: Water
Batch No.: AE31-GW

Lab Job No.: EN7E082
Lab Sample ID: LCS
Date Analyzed: 5/31/2007
Date Reported: 6/1/2007

LCS/LCSD Report

Unit: ug/L

Analyte	Method	Spike	LCS	LCSD	LCS	LCSD	%RPD	%RPD	%Rec
	Blank	Conc.			%Rec.	%rec.		Accept	Accept
								Limit	Limit
TPH-G	ND	1,000	950	1,010	95	101	6.1	20	80-120

ND: Not Detected (at the specified limit)

ABC Environmental Laboratories, Inc.

Client: Environet
 Project: Powell/2266A4
 Project Site: 963-32
 Matrix: Water
 Extraction Method: 3510C
 Batch No.: 0531-SVOCW

Lab Job No.: EN7E082
 Date Sampled: 5/30/2007
 Date Received: 5/30/2007
 Date Extracted: 5/31/2007
 Date Analyzed: 5/31/2007
 Date Reported: 6/1/2007

EPA 8270C (Semi-VOCs by GC/MS, Page 1 of 2)

Reporting Unit: ug/L (PPB)

Date Analyzed		05/31/07				
Date Extracted		05/31/07				
Dilution Factor		1				
Lab Sample I.D.		EN7E082-2				
Client Sample I.D.		963-32-Field/EQ				
Compound	RL					
N-Nitrosodimethylamine	10	ND				
Pyridine	10	ND				
Aniline	10	ND				
Bis(2-chloroethyl) ether	10	ND				
Phenol	10	ND				
2-Chlorophenol	10	ND				
1,3-Dichlorobenzene	10	ND				
1,4-Dichlorobenzene	10	ND				
Benzyl alcohol	10	ND				
1,2-Dichlorobenzene	10	ND				
2-Methylphenol	10	ND				
Bis(2-chloroisopropyl) ether	10	ND				
4-Methylphenol	10	ND				
N-Nitroso-di-n-propyl	10	ND				
Hexachloroethane	10	ND				
Nitrobenzene	10	ND				
Isophorone	10	ND				
2-Nitrophenol	10	ND				
2,4-Dimethylphenol	10	ND				
Bis(2-Chloroethoxy) methane	10	ND				
Benzoic Acid	10	ND				
2,4-Dichlorophenol	10	ND				
1,2,4-Trichlorobenzene	10	ND				
Naphthalene	10	ND				
4-Chloroaniline	10	ND				
Hexachlorobutadiene	10	ND				
4-Chloro-3-methylphenol	10	ND				
2-Methylnaphthalene	10	ND				
Hexachlorocyclopentadiene	10	ND				
2,4,6-Trichlorophenol	10	ND				
2,4,5-Trichlorophenol	10	ND				
2-Chloronaphthalene	10	ND				
2-Nitroaniline	10	ND				
Dimethylphthalate	10	ND				
Acenaphthylene	10	ND				
2,6-Dinitrotoluene	10	ND				

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x RL)

ABC Environmental Laboratories, Inc.

Client: Environet
 Project: Powell/2266A4
 Project Site: 963-32
 Matrix: Water
 Extraction Method: 3510C
 Batch No.: 0531-SVOCW

Lab Job No.: EN7E082
 Date Sampled: 5/30/2007
 Date Received: 5/30/2007
 Date Extracted: 5/31/2007
 Date Analyzed: 5/31/2007
 Date Reported: 6/1/2007

EPA 8270C (Semi-VOCs by GC/MS, Page 2 of 2)

Reporting Unit: ug/L (PPB)

Date Analyzed		05/31/07				
Date Extracted		05/31/07				
Dilution Factor		1				
Lab Sample I.D.		EN7E082-2				
Client Sample I.D.		963-32-Field/EQ				
Compound	RL					
3-Nitroaniline	10	ND				
Acenaphthene	10	ND				
2,4-Dinitrophenol	10	ND				
4-Nitrophenol	10	ND				
Dibenzofuran	10	ND				
2,4-Dinitrotoluene	10	ND				
Diethylphthalate	10	ND				
Fluorene	10	ND				
4-Chlorophenyl-phenylether	10	ND				
4-Nitroaniline	10	ND				
1,2-Diphenylhydrazine	10	ND				
4,6-Dinitro-2-methylphenol	10	ND				
N-Nitrosodiphenylamine	10	ND				
4-Bromophenyl-phenylether	10	ND				
Hexachlorobenzene	10	ND				
Pentachlorophenol	10	ND				
Benidine	10	ND				
Phenanthrene	10	ND				
Anthracene	10	ND				
Carbazole	10	ND				
Di-n-butylphthalate	10	ND				
Fluoranthene	10	ND				
Pyrene	10	ND				
Butylbenzylphthalate	10	ND				
Benzo(a)anthracene	10	ND				
3,3'-Dichlorobenzidine	10	ND				
Chrysene	10	ND				
Bis(2-Ethylhexyl) phthalate	10	ND				
Di-n-octylphthalate	10	ND				
Benzo(b)fluoranthene	10	ND				
Benzo(k)fluoranthene	10	ND				
Benzo(a)pyrene	10	ND				
Indeno(1,2,3-cd)pyrene	10	ND				
Dibenzo(a,h)anthracene	10	ND				
Benzo(g,h,i)perylene	10	ND				

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x RL)

ABC Environmental Laboratories, Inc.

Client:	Environet	Lab Job No.:	EN7E082
Project :	Powell/2266A4	Date Sampled:	5/30/2007
Project Site:	963-32	Date Received:	5/30/2007
Matrix:	Water	Date Analyzed:	5/31/2007
Batch No.:	0531-pHW	Date Reported:	6/1/2007

EPA 9040B (pH)

Unit: pH Unit

Client Sample ID	Lab ID	pH	
963-32-Field/EQ	EN7E082-2	5.68	

ABC Environmental Laboratories, Inc.

EPA 9040B (pH) Batch QA/QC Report

Client: Environet
Project: Powell/2266A4
Matrix: Water
Batch No.: 0531-pHW

Lab Job No.: EN7E082
Sample ID: EN7E082-2
Date Analyzed: 5/31/2007
Date Reported: 6/1/2007

Sample/Sample Dup. Report

Unit: pH unit

Analyte	Sample pH	Sample Duplicate	Difference	Difference Accept Limit
pH	5.68	5.68	0.00	0.05

CHAIN OF CUSTODY

Client Name: <u>ENVIRONET</u>				Analyses Requested										Turn Around Time Requested					
Address:				<input type="checkbox"/> EPA8260B (VOCs & Oxygenates) <input type="checkbox"/> EPA8260B (BTEX & Oxygenates) <input type="checkbox"/> EPA8021B (BTEX & MTBE) <input type="checkbox"/> EPA8015M / 8015B (Gasoline) <input type="checkbox"/> EPA8015M / 8015B (Diesel) <input type="checkbox"/> EPA8081A (Organochlorine Pesticides) <input type="checkbox"/> EPA 8082 (PCBs) <input type="checkbox"/> EPA418.1 (TRPH) <input type="checkbox"/> EPA8270C (SVOCs) <input type="checkbox"/> EPA CAM 17 Metals <input type="checkbox"/> EPA8141A (Organophosphorus Pesticides) <input type="checkbox"/> EPA8151A (Chlorinated Herbicides)										<input type="checkbox"/> Rush 8 12 24 Hours <input type="checkbox"/> 2-3 days <input type="checkbox"/> Normal					
Report Attention:		Phone #:		Sampled By: <u>Kevin</u>												Sample Receipt Conditions			
Project No./Name: <u>Duwell/2266A4</u>		Project Site: <u>96331</u>												<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seals					
Client Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container											Lab Sample ID	Remarks		
	Date	Time																	
<u>963-31-101-0</u>	<u>5/16</u>	<u>6:30</u>	<u>Soil</u>	<u>Ice</u>	<u>g</u>													<u>ENT054-1</u>	
<u>963-31-101-1</u>					<u>g</u>													<u>-2</u>	
<u>963-31-101-2</u>					<u>g</u>													<u>-3</u>	
<u>963-31-101-4.5</u>					<u>SS</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>X</u>								<u>-4</u>	
<u>963-31-101-6.5</u>																			
<u>963-31-102-0</u>					<u>g</u>					<u>X</u>								<u>-5</u>	
<u>963-31-102-1</u>					<u>g</u>													<u>-6</u>	
<u>963-31-102-2</u>					<u>g</u>													<u>-7</u>	
<u>963-31-102-4.5</u>					<u>g</u>													<u>-8</u>	
<u>963-31-102-6.5</u>					<u>g</u>														
<u>963-31-103-0</u>					<u>g</u>					<u>X</u>								<u>-9</u>	
<u>963-31-103-1</u>					<u>g</u>													<u>-10</u>	
<u>963-31-103-2</u>					<u>g</u>													<u>-11</u>	
<u>963-31-103-3</u>					<u>g</u>													<u>-12</u>	
<u>963-31-103-4</u>					<u>SS</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>X</u>									
Relinquished By: <u>[Signature]</u> Company:		Date: <u>5/16/07</u>		Time: <u>2000</u>		Received By: <u>Ken</u> Company: <u>ABC Lab</u>												Note: Samples are discarded 30 days after results are reported unless other arrangements are made.	
Relinquished By: _____ Company:		Date: _____		Time: _____		Received By: _____ Company: _____													

Matrix Code:	DW=Drinking Water SL=Sludge	Preservative Code	IC=Ice SH=NaOH	* Sample Container Types:	T= Tedlar Air Bag B= Brass Tube E= EnCore
	GW=Ground Water SS=Soil/Sediment		HC=HCl ST=Na2S2O3		G=Glass Container P=Plastic Bottle
	WW=Waste Water AR=Air		HN=HNO3 HS=H2SO4		ST= Steel Tube V=VOA Vial
	SD=Solid Waste PP=Pure Product				

CHAIN OF CUSTODY

Client Name <u>ENVIRONET</u>				Analyses Requested										Turn Around Time Requested				
Address				EPA8260B (VOCs & Oxygenates) EPA8260B(BTEX & Oxygenates) EPA8021B (BTEX & MTBE) EPA8015M / 8015B (Gasoline) EPA8015M / 8015B (Diesel) EPA8081A (Organochlorine Pesticides) EPA 8082 (PCBs) EPA418.1 (TRPH) EPA8270C (SVOCs) EPA CAM 17 Metals EPA8141A (Organophosphorus Pesticides) EPA8151A (Chlorinated Herbicides) <u>TRPC - LEAD</u> <u>PH</u>										<input type="checkbox"/> Rush 8 12 24 Hours <input type="checkbox"/> 2-3 days <input type="checkbox"/> Normal				
Report Attention	Phone # Fax: #	Sampled By <u>Kevin</u>												Sample Receipt Conditions				
Project No./ Name <u>Rowell</u>		Project Site <u>963-32</u>		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seals														
Client Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container											Lab Sample ID	Remarks	
	Date	Time																
<u>963-32-104-0</u>	<u>5/16</u>	<u>11:30</u>	<u>Soil</u>	<u>IC</u>	<u>g</u>													<u>EN7E054-26</u>
<u>963-32-104-1</u>					<u>g</u>													<u>-27</u>
<u>963-32-104-2</u>					<u>g</u>													<u>-28</u>
<u>963-32-104-5</u>					<u>SS</u>	<u>X</u>		<u>XX</u>		<u>X</u>								<u>-29</u>
<u>963-32-103-0</u>					<u>g</u>					<u>X</u>								<u>-30</u>
<u>963-32-103-1</u>					<u>g</u>													<u>-31</u>
<u>963-32-103-2</u>					<u>g</u>													<u>-32</u>
<u>963-32-103-5</u>					<u>g</u>													<u>-33</u>

Relinquished By 	Company	Date <u>5/16/07</u>	Time <u>20:00</u>	Received By <u>Ken</u>	Company <u>ABC Lab</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST=Steel Tube	B=Brass Tube P=Plastic Bottle V=VOA Vial	E=EnCore
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**Environmental
Laboratories, Inc.**

3701 San Gabriel River Pkwy., Pico Rivera, CA 90660

Tel: 562-413-8343

Tel/ Fax: 562-699-7288

Page 1 of 1

Lab Job Number EN7E08

CHAIN OF CUSTODY

Client Name ENVIRONET						Analyses Requested										Turn Around Time Requested	
Address 1627 XIMENO AVE. LD. 300 LONG BEACH CA 90815						EPA8260B (VOCs & Oxygenates) EPA8260B(BTEX & Oxygenates) EPA8021B (BTEX & MTBE) EPA8015M / 8015B (Gasoline) EPA8015M / 8015B (Diesel) EPA8081A (Organochlorine Pesticides) EPA 8082 (PCBs) EPA418.1 (TRPH) EPA8270C (SVOOCs) EPA CAM 17 Metals EPA8141A (Organophosphorus Pesticides) EPA8151A (Chlorinated Herbicides) -TTL-LEAD										<input type="checkbox"/> Rush 8 12 24 Hours <input type="checkbox"/> 2-3 days <input type="checkbox"/> Normal	
Report Attention T. WONG		Phone # 562 209 7080 Fax: # 562 857 4092		Sampled By <i>[Signature]</i>												Sample Receipt Conditions	
Project No./ Name POWELL/226A4		Project Site LSRD LD. 32														<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seals	
Client Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type & size of container											Lab Sample ID	
	Date	Time				Sample ID	Remarks										
963-32-10-10	5/2/07		SOIL		G		EN7E081-1										
-16								-2									
-17								-3									
102-10								-4									
103-10								-5									
-12								-6									
104-10								-7									
-12								-8									
Relinquished By <i>[Signature]</i> Company _____ Date 5/2/07 Time 2:00						Received By Ken Company ABC Lab						Note: Samples are discarded 30 days after results are reported unless other arrangements are made.					
Relinquished By _____ Company _____ Date _____ Time _____						Received By _____ Company _____											

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types:	T= Tedlar Air Bag G= Glass Container ST= Steel Tube	B= Brass Tube P= Plastic Bottle V= VOA Vial	E= EnCore
--------------	--	--	-------------------	-----------------------------	-----------------------------------	---------------------------	---	---	-----------



**Environmental
Laboratories, Inc.**

3701 San Gabriel River Pkwy., Pico Rivera, CA 90660
Tel: 562-413-8343
Tel/ Fax: 562-699-7288

Page _____ of _____
Lab Job Number: **EN7E082**

CHAIN OF CUSTODY

Client Name ENVIRONMENT						Analyses Requested										Turn Around Time Requested	
Address						EPA8260B (VOCs & Oxygenates) EPA8260B(BTEX & Oxygenates) EPA8021B (BTEX & MTBE) EPA8015M / 8015B (Gasoline) EPA8015M / 8015B (Diesel) EPA8081A (Organochlorine Pesticides) EPA 8082 (PCBs) EPA418.1 (TRPH) EPA8270C (SVOCs) EPA CAM 17 Metals EPA8141A (Organophosphorus Pesticides) EPA8151A (Chlorinated Herbicides) TEL-LEAD PH										<input type="checkbox"/> Rush 8 12 24 Hours <input type="checkbox"/> 2-3 days <input type="checkbox"/> Normal	
Report Attention		Phone # Fax: #		Sampled By												Sample Receipt Conditions	
Project No./ Name		Project Site														<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seals	
Client Sample ID		Sample Collection Date Time		Matrix Type	Sample Preserve											No., type* & size of container	Lab Sample ID
963-32-TRIP		6/20/07				V x 3	EN7E082-1										
963-32-FIELD						164 x 2	↓ -2										

Relinquished By	Company	Date	Time	Received By	Company
<i>[Signature]</i>		5/30/07	2:00	<i>[Signature]</i>	ABC Lab
Relinquished By	Company	Date	Time	Received By	Company

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types:	T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
--------------	--	--	-------------------	-----------------------------	-----------------------------------	---------------------------	---	---	-----------

Appendix D
Sample Location Maps

NOTE: FOR COMPLETE R/W AND ACCURATE ACCESS DATA,
SEE R/W RECORD MAPS AT DISTRICT OFFICE.



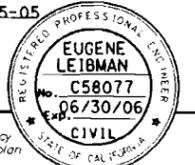
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
07	LA	5,10,90	Var	18	134

04-15-05
REGISTERED CIVIL ENGINEER

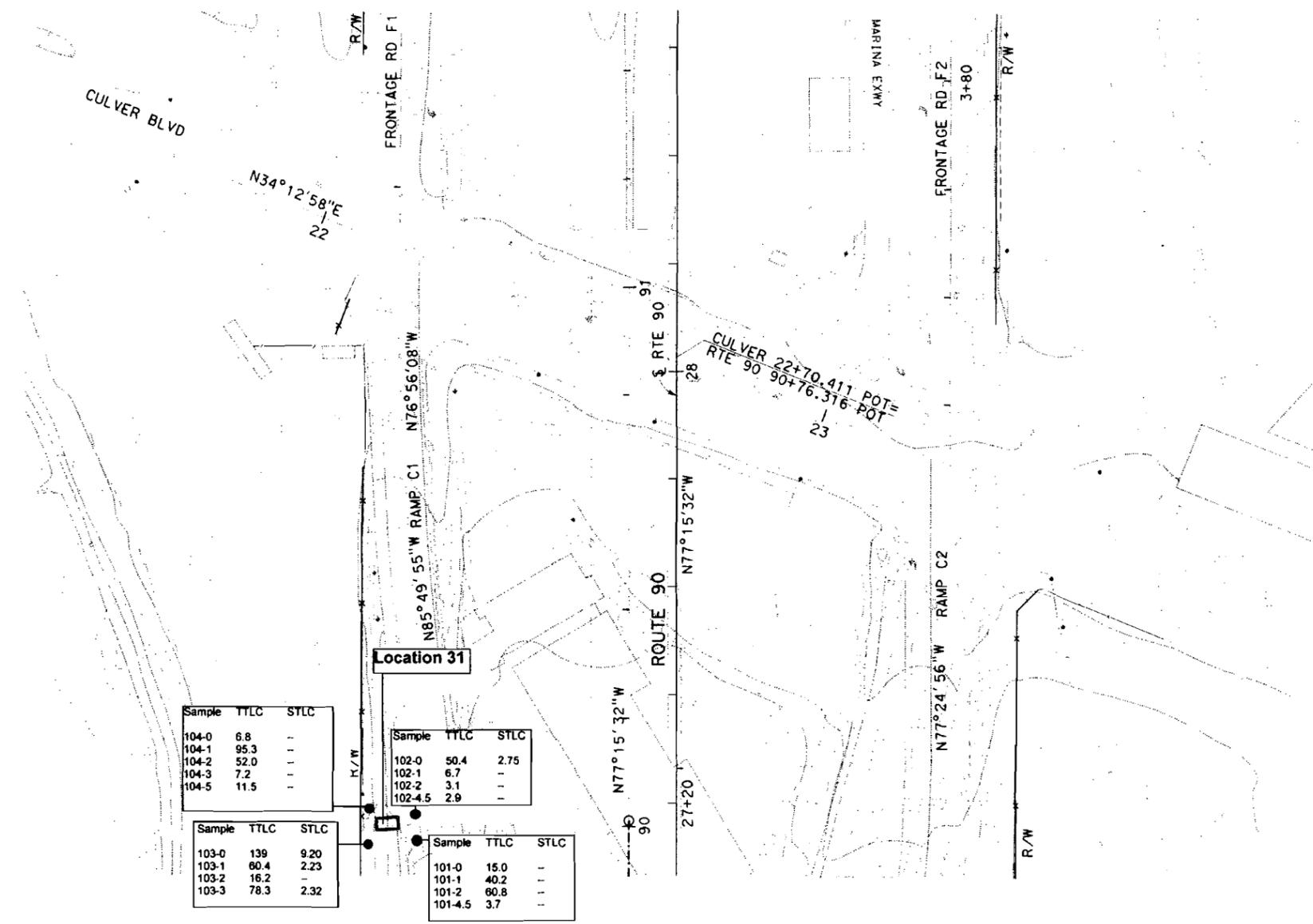
11-28-05
PLANS APPROVAL DATE

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To get to the Caltrans web site, go to: <http://www.dot.ca.gov>



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	PROJECT ENGINEER	DATE	REVISED BY
Caltrans	EUGENE YEHUDA LEIBMAN		DATE REVISED
DESIGN	CALCULATED/ DESIGNED BY		
	CHECKED BY		



Location 31

Sample	TTLC	STLC
104-0	6.8	-
104-1	95.3	-
104-2	52.0	-
104-3	7.2	-
104-5	11.5	-

Sample	TTLC	STLC
102-0	50.4	2.75
102-1	6.7	-
102-2	3.1	-
102-4.5	2.9	-

Sample	TTLC	STLC
103-0	139	9.20
103-1	60.4	2.23
103-2	16.2	-
103-3	78.3	2.32

Sample	TTLC	STLC
101-0	15.0	-
101-1	40.2	-
101-2	60.8	-
101-4.5	3.7	-

TTLC results in mg/kg
STLC results in mg/l

Contract No. 07-2266A4
Gross Solids Removal Device
Sample Location Map
Location No. 31
Route 90, LA County

SCALE: 1:500

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN



USERNAME => trrict
DGN FILE => 72266ae01c.dgn

CU 07273

EA 2266A1

00-00-00 DATE PLOTTED => 01 DEC 2005 11:45

NOTE: FOR COMPLETE R/W AND ACCURATE ACCESS DATA,
SEE R/W RECORD MAPS AT DISTRICT OFFICE.



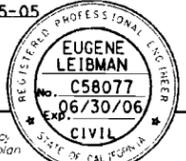
DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,90	Var		19	134

04-15-05
REGISTERED CIVIL ENGINEER

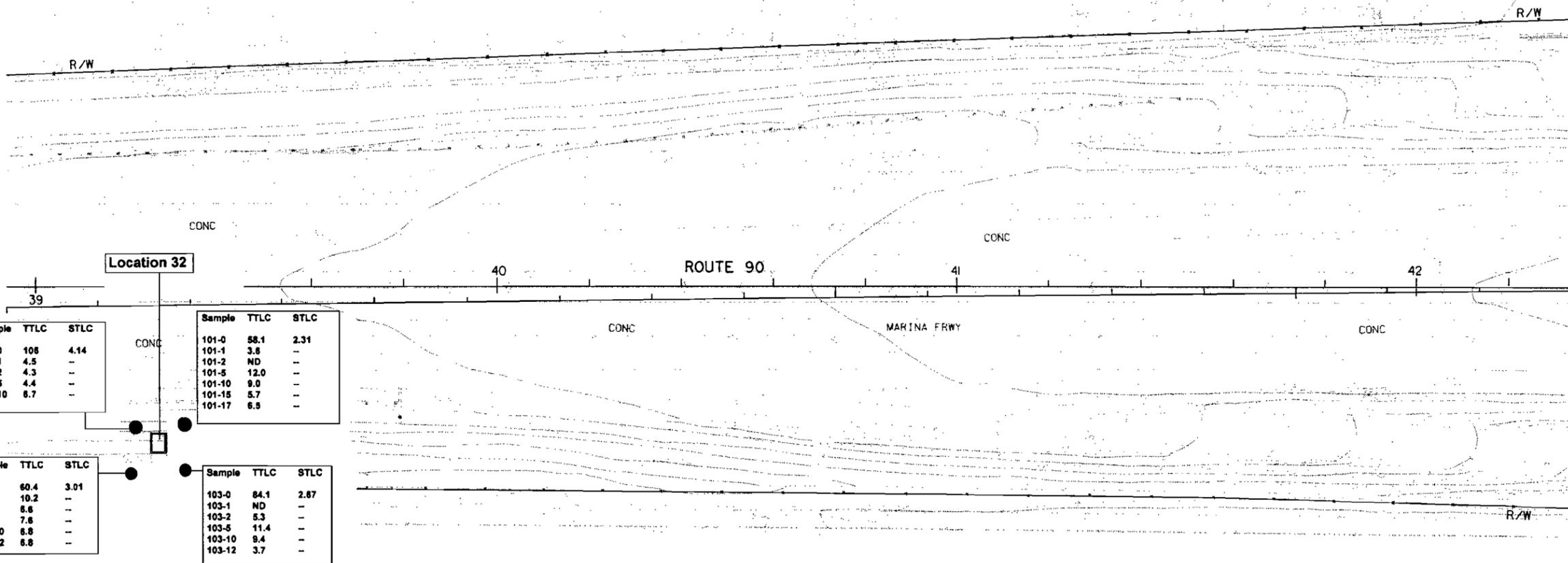
11-28-05
PLANS APPROVAL DATE

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To get to the Caltrans web site, go to: <http://www.dot.ca.gov>



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN
PROJECT ENGINEER
EUGENE YEHUDA LEIBMAN
CHECKED BY
EUGENE YEHUDA LEIBMAN
CALCULATED/DESIGNED BY
EUGENE YEHUDA LEIBMAN
DATE REVISED BY
DATE REVISED



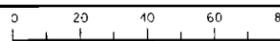
TTLC results in mg/kg
STLC results in mg/l

Contract No. 07-2266A4
Gross Solids Removal Device
Sample Location Map
Location No. 32
Route 90, LA County

SCALE: 1:500

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS



USERNAME => frrich
DGN FILE => 722660e0017.dgn

CU 07273

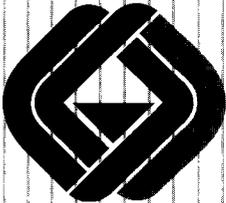
EA 2266A1

00-00-00 DATE PLOTTED => 01 DEC 2005 11:45

#160

SITE INVESTIGATION REPORT

**LEAD INVESTIGATION ON ROUTE 90
FROM SLAUSON AVENUE
TO LINCOLN BOULEVARD
07-LA-90 KP 1.45/5.15
POST MILE 0.9/3.2
LOS ANGELES COUNTY, CALIFORNIA
CONTRACT 43Y097
TASK ORDER NO. 07-120891-HB
EA NO. 120891**



GEOCON

**GEO TECHNICAL
&
ENVIRONMENTAL
CONSULTANTS**

PREPARED FOR

**CALIFORNIA DEPARTMENT
OF TRANSPORTATION
DISTRICT 7
LOS ANGELES, CALIFORNIA**

#160

JANUARY 1998



Project No. 08730-06-54
Task Order No. 07-120891-HB
January 19, 1998

Mr. Kanwal Singh
California Department of Transportation
District 7
120 South Spring Street
Los Angeles, California 90012-3606

Subject: SITE INVESTIGATION REPORT
LEAD INVESTIGATION ON ROUTE 90
FROM SLAUSON AVENUE TO
LINCOLN BOULEVARD
07-LA-60 KP 1.45/5.15
LOS ANGELES COUNTY, CALIFORNIA
CONTRACT 43Y097
TASK ORDER NO. 07-120891-HB

Dear Mr. Singh:

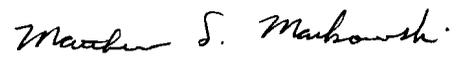
In accordance with Caltrans Contract No. 43Y097 and Task Order No. 07-120891-HB, Geocon Environmental Consultants, Inc. (Geocon) has performed environmental engineering services at the site referenced above. The site consisted of the exposed soil adjacent to the side shoulders of eastbound and westbound Route 90 from Slauson Avenue to Lincoln Boulevard in Los Angeles County, California. The accompanying report summarizes the services performed, including the advancement of hand-auger borings, limited soil sampling, and laboratory analyses. Should questions concerning the contents of this report arise, or if Geocon may be of further service, please contact the undersigned at your convenience.

Very truly yours,

GEOCON ENVIRONMENTAL CONSULTANTS, INC.


Joel C. Kloth, RG 4628
Project Geologist


Mark P. Wanek
Staff Geologist


Matthew S. Markowski
Staff Geologist

MSM:MPW:JCK:sc

(5) Addressee

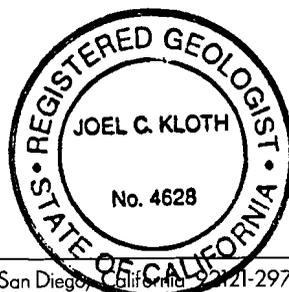


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- I. Summary of Analytical Laboratory Results

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- A. Geocon Standard Operating Procedures
- B. Laboratory Reports and Chain-of-Custody Documentation

I. EXECUTIVE SUMMARY

Pursuant to the California Department of Transportation (Caltrans) Task Order (TO) No 07-120891-HB, Geocon Environmental Consultants, Inc. (Geocon) has performed a site investigation of the eastbound and westbound shoulders of Route 90 Slauson Avenue to Lincoln Boulevard (KP 1.45/5.15) in Los Angeles County, California. The investigation was performed to evaluate for the presence of lead due to the historical combustion of leaded fuels from freeway traffic. Data from the investigation was used to determine the re-use method for soil excavated at the site during the proposed construction. The data was also used to inform Caltrans of potential health and safety issues concerning the presence of lead in soil for workers at the site during construction activities.

Sixteen (16) soil samples were collected from eight boring locations. Soil samples were collected from the surface and from a depth of approximately 1½ feet below the ground surface. Two borings were located at maintenance truck turnouts/retaining wall locations, and six borings were located along a proposed conduit trench. The borings for conduit trenching were situated approximately 4 to 6 feet away from the edge of the pavement and were spaced approximately 1/3 mile apart. The soil samples collected were analyzed for total and soluble lead.

i.i. Conclusions

One soil sample exhibited a total lead concentration greater than the TTLC of 1,000 mg/kg. Four (4) of the six soil samples analyzed for soluble lead via the Waste Extraction Test (WET) exhibited soluble lead concentrations greater than the STLC of 5.0 mg/l. Four soil samples were analyzed via the WET using de-ionized water as the extractant. This data indicated that a portion of the soil excavated at the site has the potential to be classified as a hazardous waste per Title 22 of the California Code of Regulations (CCR). The following tables indicate the intervals in the soil borings that may be impacted with hazardous lead concentrations.

MAINTENANCE TRUCK TURNOUTS/RETAINING WALL LOCATIONS

BORING NO.	INTERVAL POTENTIALLY IMPACTED BY HAZARDOUS LEAD CONCENTRATIONS
T1	From the surface to 1½ feet below the ground surface

CONDUIT TRENCH LOCATIONS

BORING NOS.	INTERVAL POTENTIALLY IMPACTED BY HAZARDOUS LEAD CONCENTRATIONS
B2, B3, B5, B6	From the surface to 1½ feet below the ground surface

i.ii. Recommendations

Based upon the results of the soil samples analyzed, it is recommended that the soil excavated at the maintenance truck turnouts/retaining wall locations be re-used on-site as shown in the table below in accordance with the Department of Toxic Substances Control (DTSC) variance issued to Caltrans. It is estimated that approximately 2½ cubic yards of impacted soil would be excavated from one of the two maintenance truck turnouts/retaining wall locations. The truck turnout locations are depicted on Figures 3 and 7. If the soil excavated from the truck turnout locations and conduit trenches cannot be re-used on-site, it is recommended that the soil be re-used within Caltrans right-of-way at another site following the same method for re-use described below.

MAINTENANCE TRUCK TURNOUTS/RETAINING WALL LOCATIONS

LOCATION (BORING NO.)	RECOMMENDATIONS FOR RE-USE	VOLUME OF IMPACTED SOIL
Truck Turnout Location 1 (T1)	The top 1½ feet of soil excavated from this location should be re-used by being placed beneath pavement or 1 foot of clean fill material at least 5 feet above the maximum groundwater elevation.	2½ yd ³
Truck Turnout Location 2 (T2)	Soil from this location may be re-used as clean fill material with regard to lead impacts only.	---

Soil excavated from the conduit trenches may be re-used by placing it back in the trench in accordance with a utility variance. The conduit trench boring locations are depicted on Figures 2 through 7.

It is further recommended that Caltrans notify the contractors performing the construction activities that hazardous lead concentrations may be present in soil at the site as shown in the tables presented in the *Conclusions* section (i.i). The appropriate health and safety measures should be taken to minimize worker exposure to lead.

SITE INVESTIGATION REPORT

1. INTRODUCTION

1.1 Project Description and Objectives

Pursuant to the California Department of Transportation (Caltrans) Contract 43Y097 and Task Order (TO) No. 07-120891-HB, Geocon Environmental Consultants, Inc. (Geocon) performed environmental engineering services adjacent to the side shoulders of the eastbound and westbound Route 90 from Slauson Avenue to Lincoln Boulevard (KP 1.45/ 5.15) in Los Angeles County, California. The approximate site location is depicted on the Vicinity Map, presented as Figure 1.

The objective of the site investigation was to evaluate soil along the shoulder of the site for the presence of lead due to the historical combustion of leaded fuels from freeway traffic. The information obtained from the limited soil sampling and laboratory testing was used to determine the method of re-use of soil excavated during the proposed construction activities at the site. The data was also used to inform Caltrans of potential health and safety issues for workers at the site during construction activities.

1.2 Scope of Work

Geocon performed the following tasks:

1.2.1 Task I - Pre-field Activities

- Attended a task order meeting on October 30, 1997, to discuss issues such as field methods, boring locations, health and safety measures, and the completion schedule.
- Prepared a Health and Safety Plan dated October 31, 1997, for the proposed activities. The Health and Safety Plan included guidelines for the use of personal protective equipment for Geocon employees during the field activities.
- Contacted Underground Service Alert (USA) to notify utility companies of the field activities. Geocon was provided with USA Ticket Numbers 764688, 764701, 764706, and 764710.

1.2.2 Task II - Limited Soil Sampling

- Utilized a 3-inch diameter hand auger to collect 16 soil samples from eight boring locations on November 5, 1997. Two borings were advanced at maintenance truck turnouts/retaining wall locations and six borings were advanced at conduit trench locations. The borings were located along the eastbound and westbound shoulders of Route 90 approximately 4 to 6 feet from the edge of the roadway, and were spaced approximately 1/3 mile apart. The borings were advanced

to a maximum depth of approximately 2 feet below the ground surface, and soil samples were collected from the surface and from a depth of approximately 1½ feet below the ground surface. The approximate boring locations are depicted on Boring Location Maps, Figures 2 through 7.

- Backfilled the borings with the soil cuttings generated.

1.2.3 Task III - Laboratory Analyses

Submitted the soil samples to a California Department of Health Services (CDOHS)-certified analytical laboratory. The soil samples were analyzed for total lead following EPA Test Method 6010. Soil samples that exhibited total lead concentrations greater than or equal to 50 milligrams per kilogram (mg/kg) and less than 1,000 mg/kg were analyzed for soluble lead via the standard Waste Extraction Test (WET) following EPA Test Method 7420. Four soil samples that exhibited soluble lead concentrations greater than 5.0 milligrams per liter (mg/l) were re-analyzed for soluble lead via the WET with de-ionized water used as the extractant (WET-DI) following EPA Test Method 7420. The laboratory analyses were performed on a 48-hour turn-around-time.

1.2.4 Task IV - Report Preparation

Prepared this report, as outlined in Contract 43Y097, summarizing the results of the site investigation activities requested by Caltrans.

1.3 Previous Site Investigations

Geocon has not performed previous investigations at the site. In addition, Caltrans has not notified Geocon of previous investigations performed at the site.

2. INVESTIGATIVE METHODS

2.1 Field Methods

The field methods used by Geocon to complete this TO are outlined in the following Geocon Standard Operating Procedures (SOPs) presented as Appendix A:

- SOP No. 11 - Hand-Augering and Soil Sample Collection
- SOP No. 31 - Soil Sample Handling Procedures

2.2 Deviations from Work Plan

A work plan was not prepared for this TO; however, Geocon performed the scope of work as described in TO No. 07-120891-HB.

3. INVESTIGATIVE RESULTS AND FIELD OBSERVATIONS

3.1 Site Geology, Hydrology, and Other Site Conditions

The soil conditions encountered at boring locations B1 through B4 consisted generally of dry to moist, brown, silty sand with traces of gravel to the maximum depth of exploration. Conditions encountered at the remainder of the boring locations consisted generally of dry to moist, yellow to brown, fine to medium sand, underlain by moist, brown, sandy clay. Groundwater was not encountered during the advancement of the borings. Other pertinent information requested by Caltrans from the site is given in the table below.

TABLE 3.1

BORING NUMBER	APPROX. DISTANCE FROM EOP (feet)	SLOPING OR RELATIVELY FLAT	ELEVATION BELOW ROADWAY (feet)	WIND DIRECTION	LAND-SCAPED	CUT OR FILL	BORING DEPTH (feet)
B1	5	Relatively Flat	0	West	Yes	Fill	2
B2	5	Relatively Flat	0	West	Yes	Fill	2
B3	5	Relatively Flat	0	West	Yes	Fill	2
B4	5	Relatively Flat	0	West	Yes	Fill	2
B5	5	Relatively Flat	0	West	Yes	Fill	2
B6	5	Relatively Flat	0	West	Yes	Fill	2
T1	5	Relatively Flat	0	West	Yes	Fill	2
T2	5	Relatively Flat	0	West	Yes	Fill	2

Note: EOP = Edge of Pavement

3.2 Analytical Laboratory Results

A summary of the analytical laboratory results is presented as Table I. Reproductions of the laboratory reports and chain-of-custody documentation are presented as Appendix B.

3.3 Total Lead

Total lead concentrations ranged from below the laboratory detection of 5.0 mg/kg to 1,610 mg/kg. One soil sample (B3-S) exhibited a total lead concentration greater than the total threshold limit concentration (TTLC) of 1,000 mg/kg. Six soil samples exhibited total lead concentrations greater than 50 mg/kg and less than 1,000 mg/kg.

3.4 Soluble Lead (WET)

Six soil samples were analyzed for soluble lead via the WET. Soluble lead concentrations ranged from 3.8 mg/l to 43 mg/l. Four soil samples exhibited soluble lead concentrations greater than the soluble threshold limit concentration (STLC) of 5.0 mg/l.

3.5 Soluble Lead (WET-DI)

Four soil samples were analyzed for soluble lead via the WET-DI. The soil samples exhibited soluble lead concentrations ranging from 0.13 mg/l to 2.2 mg/l. One soil sample (B6-S) exhibited a soluble lead WET-DI concentration greater than 0.5 mg/l.

3.6 Data Validation

Prior to submitting the soil samples to the laboratory, the chain-of-custody documentation was reviewed for accuracy and completeness. The laboratory reports were reviewed for accuracy (e.g., units of concentration in mg/kg or mg/l) and consistency with chain-of-custody documentation. The matrix-spikes and duplicates were reviewed to ensure the laboratory results were within tolerance control limits. Based upon this validation process, the data quality is adequate for the purposes of this report.

4. CONCLUSIONS

Based on the data presented in Section 3.0, a portion of the soil excavated at the site has the potential to be classified as a hazardous waste per Title 22 of the California Code of Regulations (CCR). The following tables indicate the intervals in the soil borings that may be impacted with hazardous lead concentrations.

MAINTENANCE TRUCK TURNOUTS/RETAINING WALL LOCATIONS

BORING NO.	INTERVAL POTENTIALLY IMPACTED BY HAZARDOUS LEAD CONCENTRATIONS
T1	From the surface to 1½ feet below the ground surface

CONDUIT TRENCH LOCATIONS

BORING NOS.	INTERVAL POTENTIALLY IMPACTED BY HAZARDOUS LEAD CONCENTRATIONS
B2, B3, B5, B6	From the surface to 1½ feet below the ground surface

5. RECOMMENDATIONS

Based upon the results of the soil samples analyzed, it is recommended that the soil excavated at the maintenance truck turnouts/retaining wall locations be re-used on-site as shown in the table below in accordance with the Department of Toxic Substances Control (DTSC) variance issued to Caltrans. It is estimated that approximately 2½ cubic yards of impacted soil would be excavated from one of the two maintenance truck turnouts/retaining wall locations. The truck turnout locations are depicted on Figures 3 and 7. If the soil excavated from the truck turnout locations and conduit trenches cannot be re-used on-site, it is recommended that the soil be re-used within Caltrans right-of-way at another site following the same method for re-use described below.

TABLE 5.

MAINTENANCE TRUCK TURNOUTS/RETAINING WALL LOCATIONS

LOCATION (BORING NOS.)	RECOMMENDATIONS FOR RE-USE	VOLUME OF IMPACTED SOIL
Truck Turnout Location 1 (T1)	The top 1½ feet of soil excavated from this location should be re-used by being placed beneath pavement or 1 foot of clean fill material at least 5 feet above the maximum groundwater elevation.	2½ yd ³
Truck Turnout Location 2 (T2)	Soil from location may be re-used as clean fill material with regard to lead impacts only.	---

Soil excavated from the conduit trenches may be re-used by placing it back in the trench in accordance with a utility variance. The conduit trench boring locations are depicted on Figure 2 through 7.

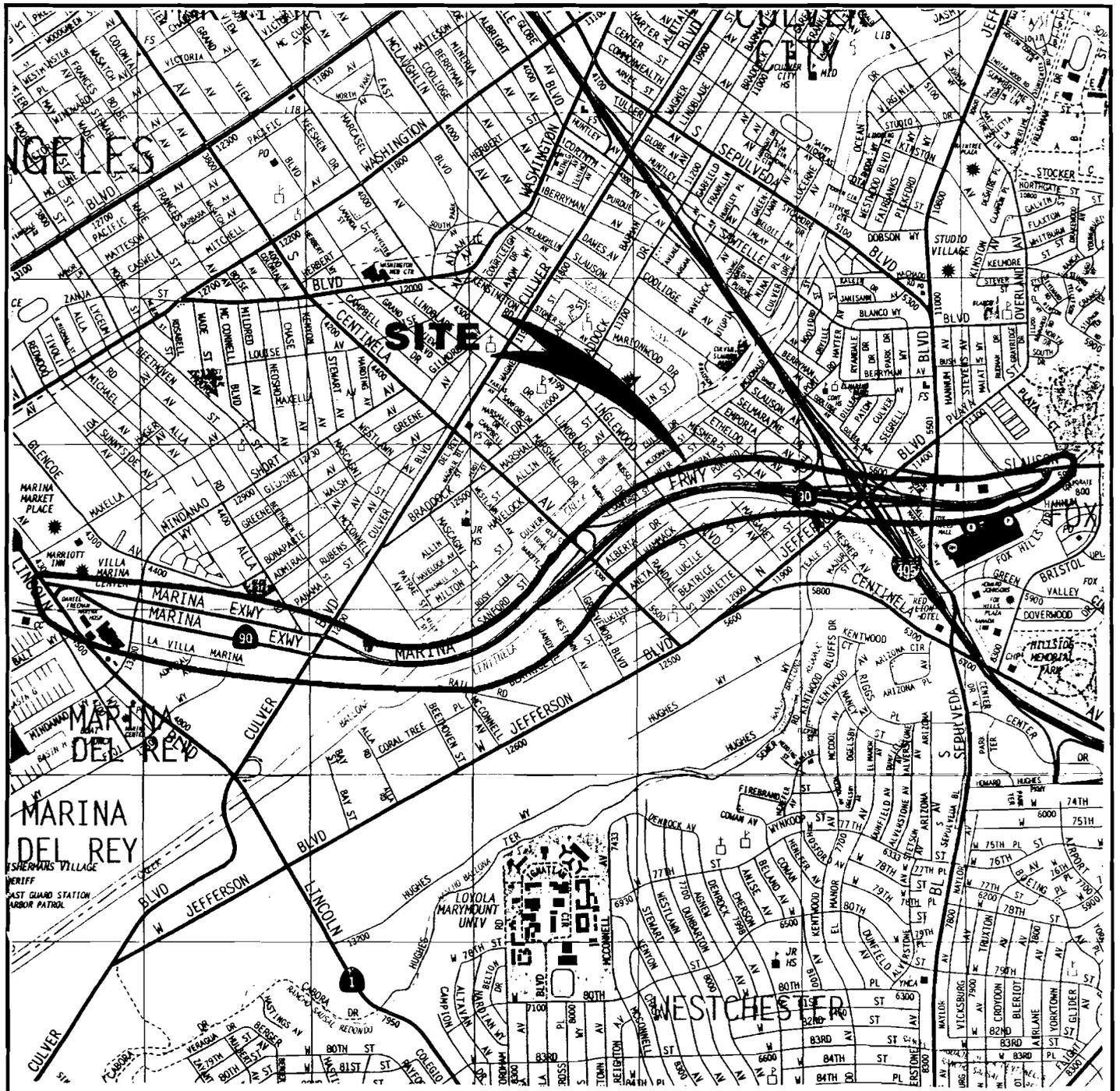
It is further recommended that Caltrans notify the contractors performing the construction activities that hazardous lead concentrations may be present in soil at the site as shown in the tables presented in the *Conclusions* section. The appropriate health and safety measures should be taken to minimize worker exposure to lead.

6. REPORT LIMITATIONS

This report has been prepared exclusively for Caltrans. The information obtained is only relevant as of the date of the latest site visit. The information contained herein is only valid as of the date of the report, and will require an update to reflect additional information obtained.

The Client should recognize that this report is not a comprehensive site characterization and should not be construed as such. The DTSC, Los Angeles County Regional Water Quality Control Board, or other appropriate regulatory agency may require additional investigations. The findings and conclusions as presented in this report are predicated on the results of the limited soil sampling and laboratory analyses performed. In addition, the information obtained is not intended to address potential impacts related to sources other than those specified herein.

Therefore, the report should only be deemed conclusive with respect to the information obtained. No guarantee or warranty of the results of the report is implied within the intent of this report or any subsequent reports, correspondence, or consultation, either expressed or implied. Geocon strived to perform the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.



SOURCE : 1996 THOMAS BROTHERS MAP
LOS ANGELES COUNTY, CALIFORNIA

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NO SCALE

GEOCON



ENVIRONMENTAL CONSULTANTS INCORPORATED
6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
PHONE 619 558-6100 - FAX 619 558-8437

MSM / JS

DSK / E0000

VICINITY MAP

CCTV PROJECT

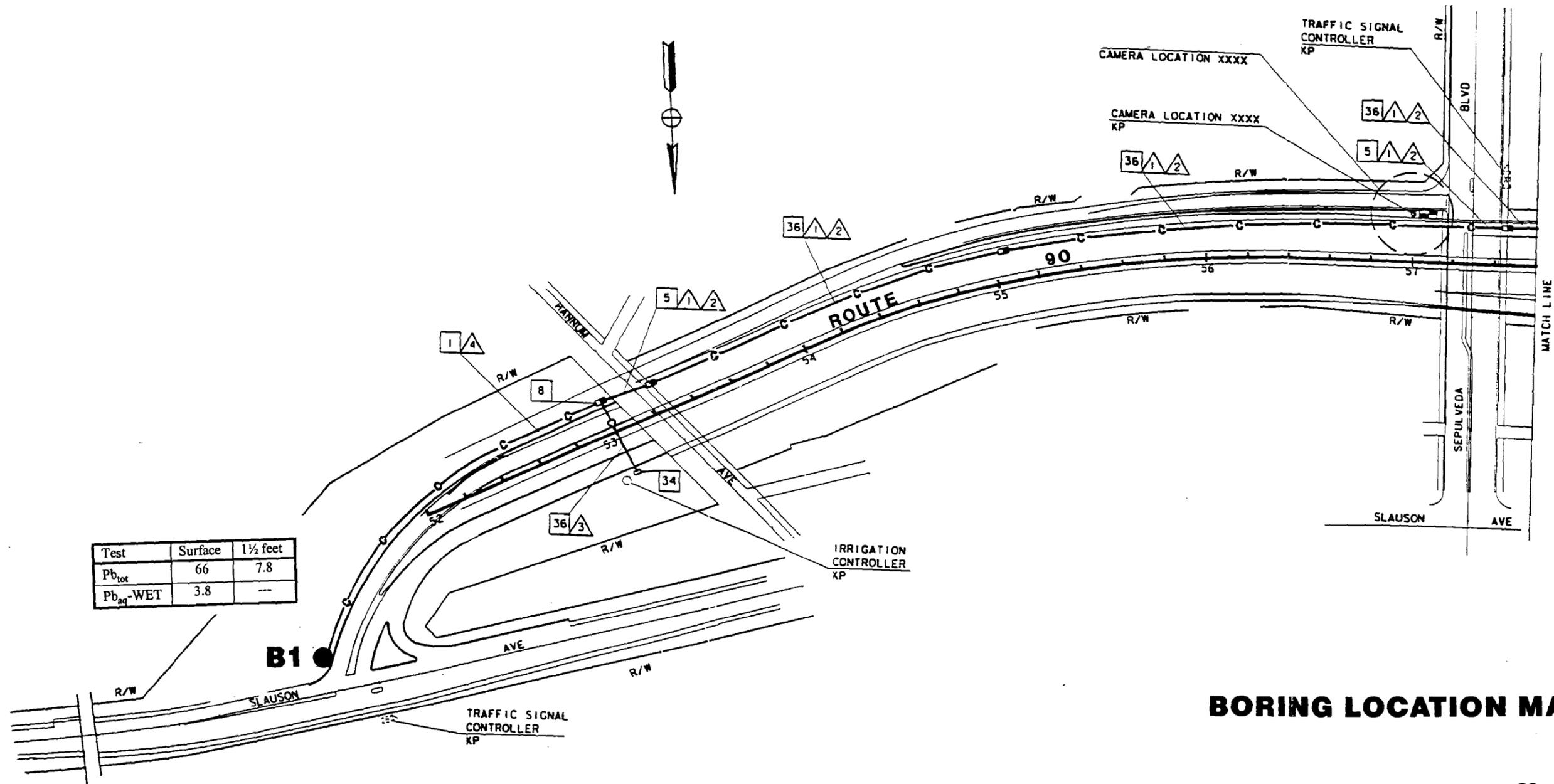
ROUTE 90 FREEWAY

LOS ANGELES COUNTY, CALIFORNIA

DATE 01-19-98

PROJECT NO. 08730 - 06 - 54

FIG. 1

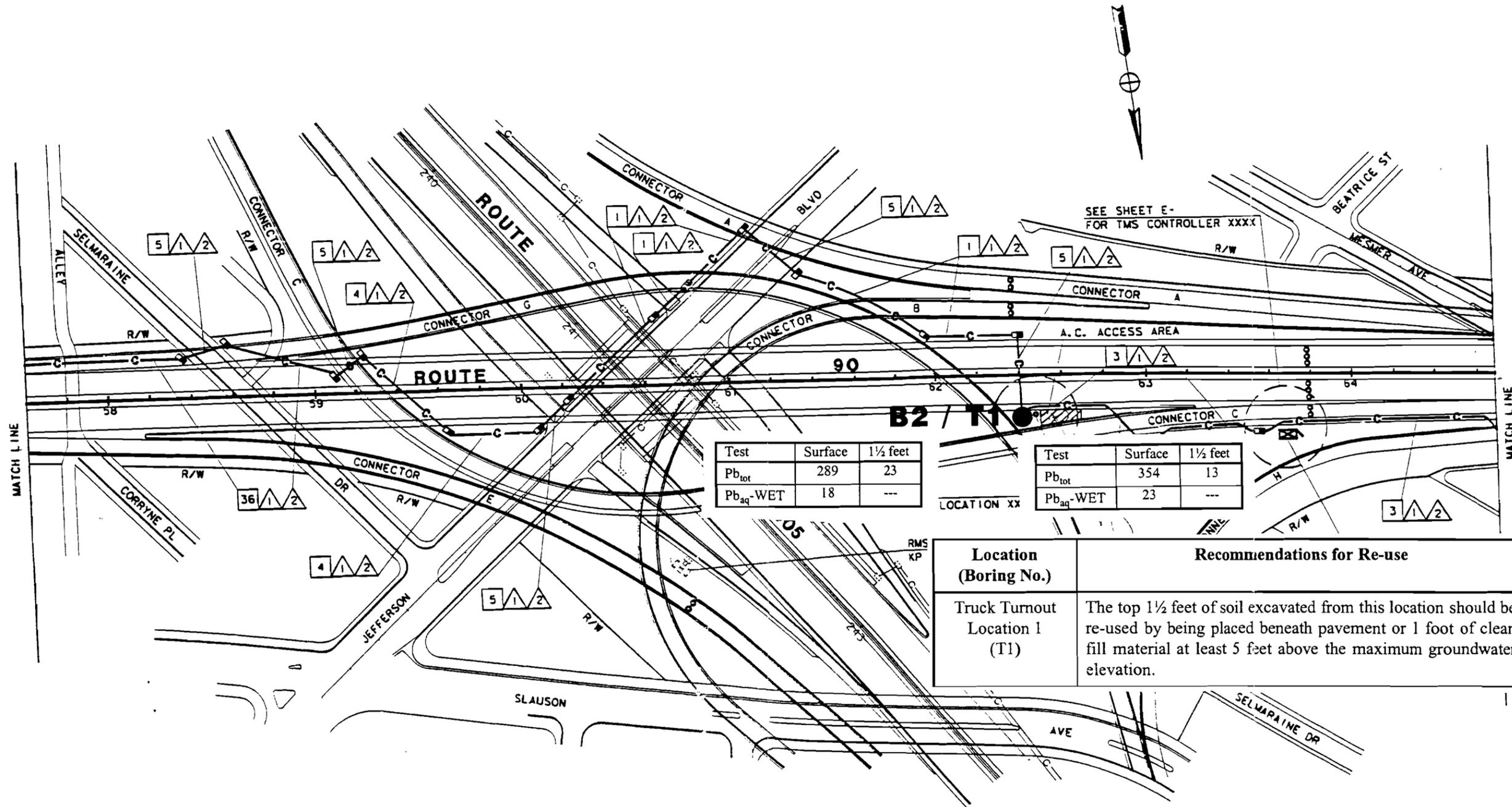


BORING LOCATION MAP

GEOCON



GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS
 6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
 PHONE 619 558-6100 - FAX 619 558-8437
 PROJECT NO. 08730 - 06 - 54
 FIGURE 2
 DATE 01-19-98



Test	Surface	1½ feet
Pb _{tot}	289	23
Pb _{aq} -WET	18	---

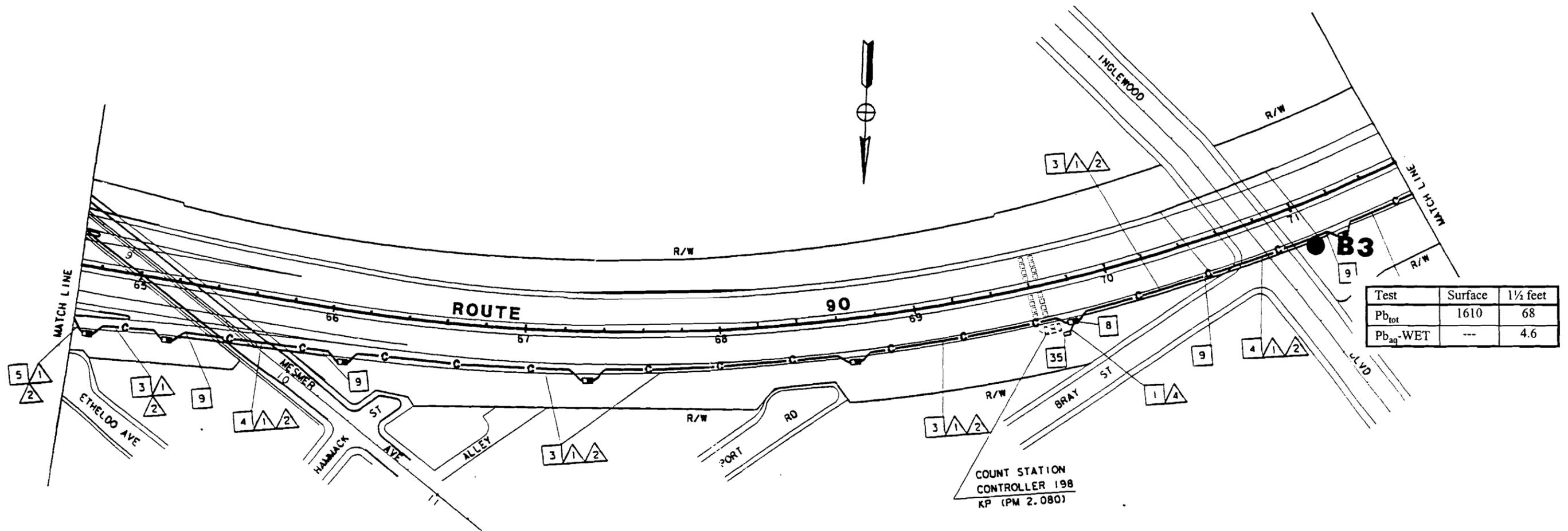
Test	Surface	1½ feet
Pb _{tot}	354	13
Pb _{aq} -WET	23	---

Location (Boring No.)	Recommendations for Re-use	Volume of Impacted Soil
Truck Turnout Location 1 (T1)	The top 1½ feet of soil excavated from this location should be re-used by being placed beneath pavement or 1 foot of clean fill material at least 5 feet above the maximum groundwater elevation.	2½ yd ³

BORING LOCATION MAP

GEOCON 

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS
 6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
 PHONE 619 558-6100 - FAX 619 558-8437
 PROJECT NO. 08730 - 06 - 54
 FIGURE 3
 DATE 01-19-98

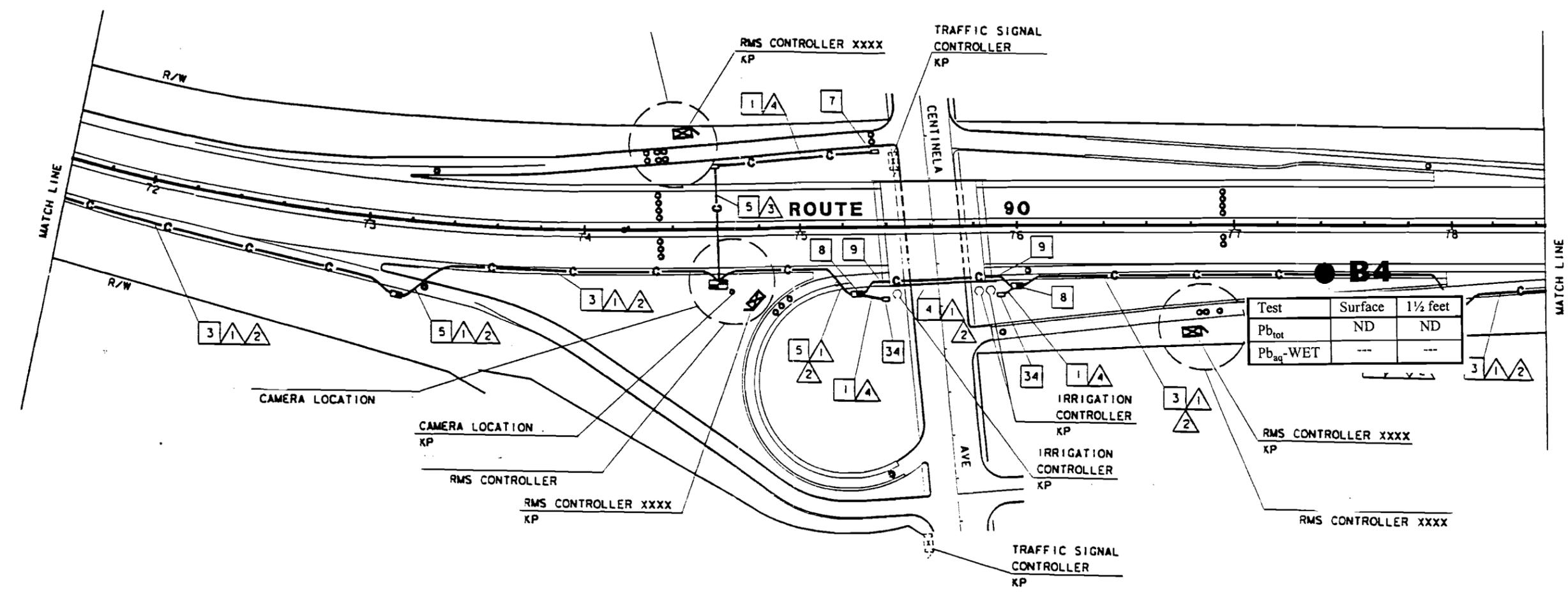
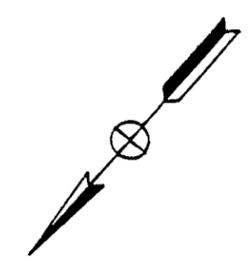


BORING LOCATION MAP

GEOCON



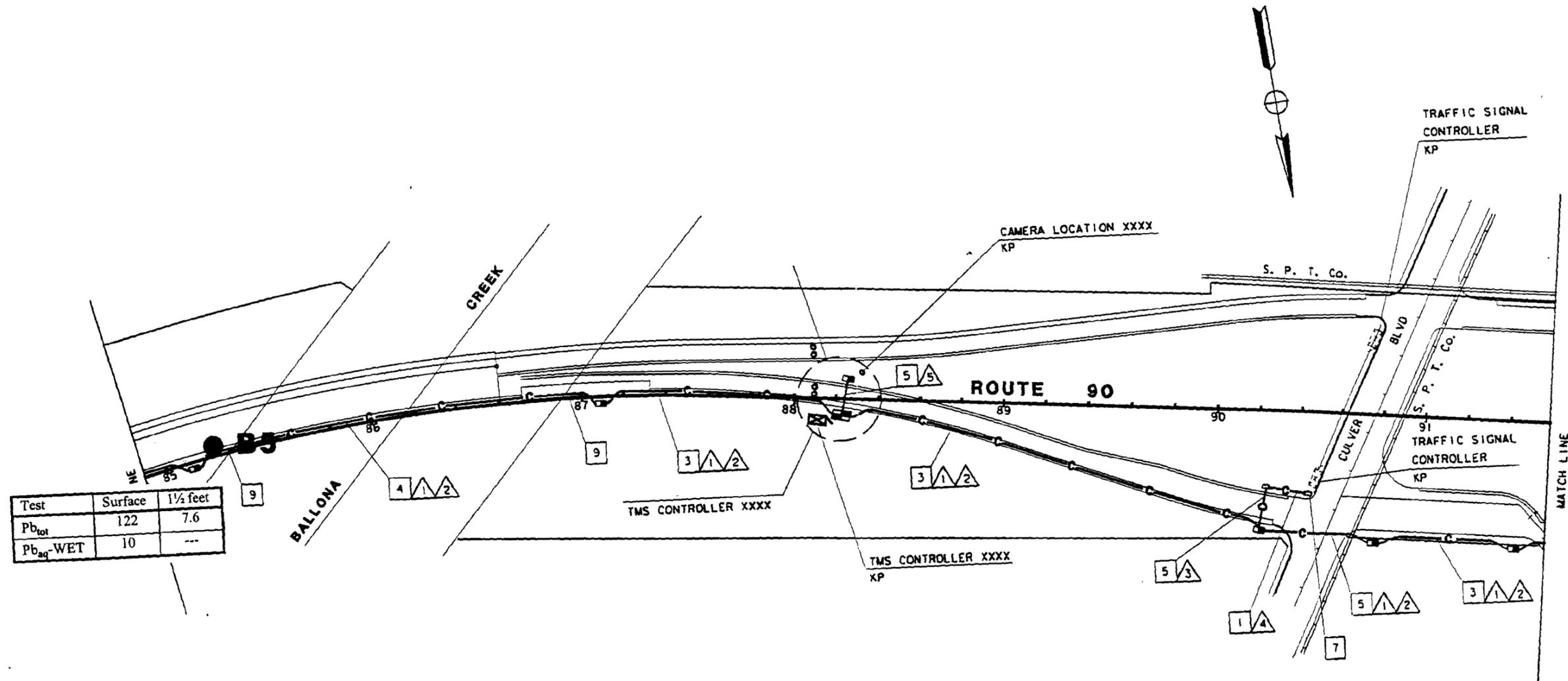
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS
 6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
 PHONE 619 558-6100 - FAX 619 558-8437
 PROJECT NO. 08730 - 06 - 54
 FIGURE 4
 DATE 01-19-98



BORING LOCATION MAP

GEOCON 

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS
 6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
 PHONE 619 558-6100 - FAX 619 558-8437
 PROJECT NO. 08730 - 06 - 54
 FIGURE 5
 DATE 01-19-98



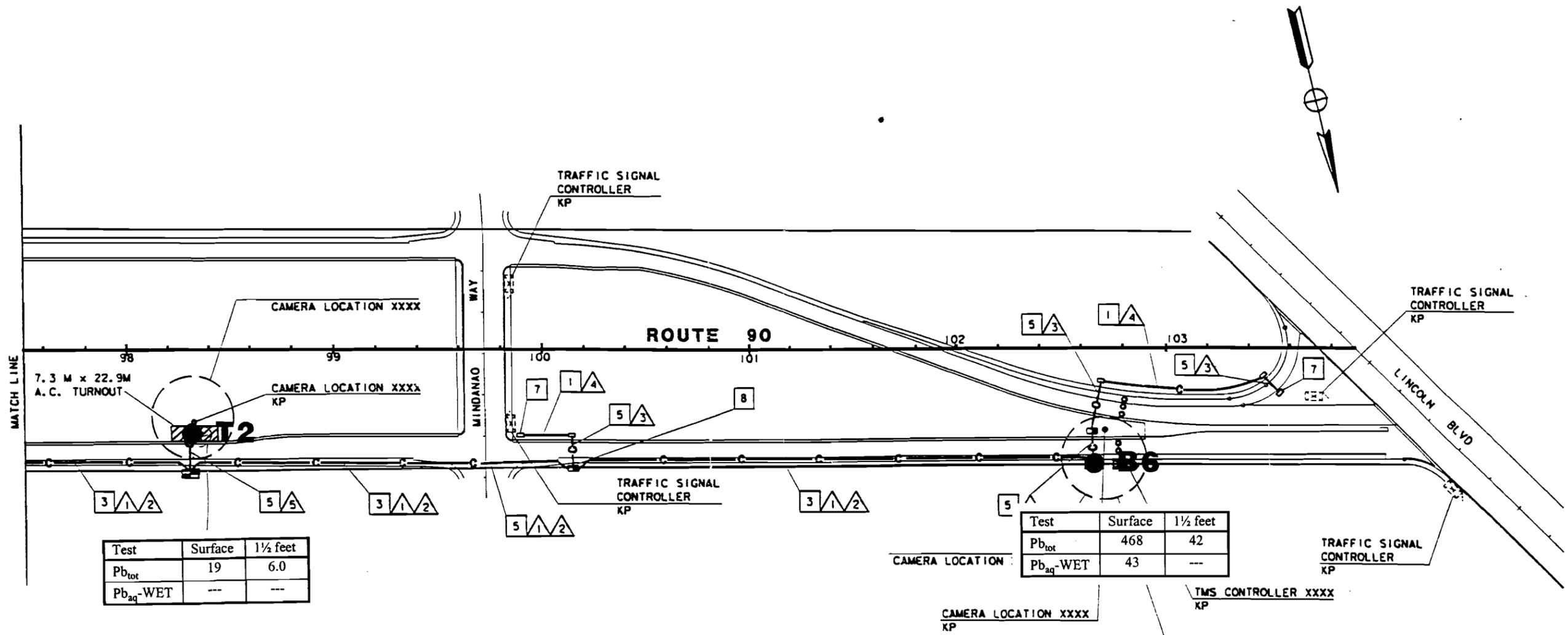
Test	Surface	1 1/2 feet
Pb _{tot}	122	7.6
Pb _{aq} -WET	10	---

BORING LOCATION MAP

GEOCON



GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS
 6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
 PHONE 619 558-6100 - FAX 619 558-8437
 PROJECT NO. 08730 - 06 - 54
 FIGURE 6
 DATE 01-19-98



Location (Boring No.)	Recommendations for Re-use	Volume of Impacted Soil
Truck Turnout Location 2 (T2)	Soil from this location may be re-used as clean fill material with regard to lead impacts only.	---

BORING LOCATION MAP

GEOCON



GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS
 6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
 PHONE 619 558-6100 - FAX 619 558-8437
 PROJECT NO. 08730 - 06 - 54
 FIGURE 7
 DATE 01-19-98

TABLE I
SUMMARY OF ANALYTICAL LABORATORY RESULTS

SAMPLE IDENTIFICATION	DEPTH IN FEET	TOTAL LEAD EPA TEST METHOD 6010 (mg/kg)	SOLUBLE LEAD - WET EPA TEST METHOD 7420 (mg/L)	SOLUBLE LEAD - WET-DI EPA TEST METHOD 7420 (mg/L)
B1-S	surface	66	3.8	---
B1-1.5	1½	7.8	---	---
B2-S	surface	289	18	0.27
B2-1.5	1½	23	---	---
B3-S	surface	1610	---	---
B3-1.5	1½	68	4.6	---
B4-S	surface	ND	---	---
B4-1.5	1½	ND	---	---
B5-S	surface	122	10	0.13
B5-1.5	1½	7.6	---	---
B6-S	surface	468	43	2.2
B6-1.5	1½	42	---	---
T1-S	surface	354	23	0.26
T1-1.5	1½	13	---	---
T2-S	surface	19	---	---
T2-1.5	1½	6.0	---	---

Note:

- mg/kg = milligrams per kilogram
- mg/l = milligrams per liter
- WET = Waste Extraction Test
- WET-DI = WET with deionized water used as the extractant
- = analysis not performed

APPENDIX

A

APPENDIX A

GEOCON ENVIRONMENTAL CONSULTANTS INCORPORATED STANDARD OPERATING PROCEDURE (SOP) NO. 11 HAND-AUGERING AND SOIL SAMPLE COLLECTION

Purpose

The purpose of this SOP is to outline procedures and methods to be used to advance hand-augers and collect soil samples for chemical analyses.

Hand-Augering and Soil Sample Collection Procedures

1. Initiate boring using a hand-held 3-inch diameter stainless steel auger.
2. Advance boring to initial sample depth of approximately 0 to ½ foot below the ground surface.
3. Transfer the soil sample from the hand-auger into a glass jar supplied by the laboratory.
4. Repeat the procedure and collect soil samples at subsequent depths as specified in the Task Order, if possible.
5. Backfill the borings to surface grade with soil cuttings generated.
6. Clean and rinse sampling equipment prior to the collection of each soil sample by washing the equipment with a trisodium phosphate solution followed by subsequent tap water and deionized water rinses.

APPENDIX A (continued)

GEOCON ENVIRONMENTAL CONSULTANTS INCORPORATED STANDARD OPERATING PROCEDURE (SOP) NO. 31 SOIL SAMPLE HANDLING PROCEDURES

Purpose

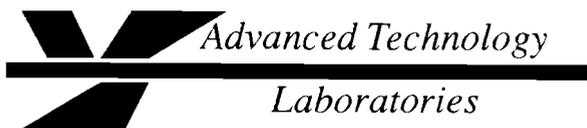
The purpose of this SOP is to outline procedures and methods to be used to package and transport soil samples to an analytical laboratory.

Soil Sample Handling Procedures

1. Soil samples will be retrieved directly from the hand auger.
2. After extracting the sample from the auger, the soil sample will be placed in laboratory supplied glass jars with Teflon-lined lids.
3. Sample labels will be placed on the outside of the jar to indicate the boring number and from what depth the sample was obtained, the time the sample was obtained, and the date the sample was obtained.
4. Each prepared sample jar will be placed into a container for transport to Advanced Technology Laboratories.

APPENDIX

B



November 7, 1997

ELAP No.: 1838

Geocon Environmental
6970 Flanders Drive
San Diego, CA 92121

ATTN: Mr. Joel Kloth

Client's Project: Route 90, 08730-06-54
Lab No.: 21482-001/016

Gentlemen:

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,

A handwritten signature in black ink, appearing to read 'EPC', is written over a horizontal line.

Edgar P. Caballero
Laboratory Director
EPC/mc

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.

Client: Geocon Environmental
 Attn: Mr. Joel Kloth

Client's Project: Route 90, 08730-06-54

Date Received: 11/05/97
 Date Sampled: 11/05/97
 Date Digested: 11/06/97
 Digestion Method: EPA 3051

Lab No.	Sample I.D.	Analysis	Date Analyzed	Results	Matrix Units	MDL	DLR	Analyst
21482-001	B1-S	EPA 6010 (Lead)	11/07/97	66	Soil, mg/kg	5.0	5.0	CDR
21482-002	B1-1.5	EPA 6010 (Lead)	11/07/97	7.8	Soil, mg/kg	5.0	5.0	CDR
21482-003	B2-S	EPA 6010 (Lead)	11/07/97	289	Soil, mg/kg	5.0	5.0	CDR
21482-004	B2-1.5	EPA 6010 (Lead)	11/07/97	23	Soil, mg/kg	5.0	5.0	CDR
21482-005	T1-S	EPA 6010 (Lead)	11/07/97	354	Soil, mg/kg	5.0	5.0	CDR
21482-006	T1-1.5	EPA 6010 (Lead)	11/07/97	13	Soil, mg/kg	5.0	5.0	CDR
21482-007	B3-S	EPA 6010 (Lead)	11/07/97	1610	Soil, mg/kg	5.0	5.0	CDR
21482-008	B3-1.5	EPA 6010 (Lead)	11/07/97	68	Soil, mg/kg	5.0	5.0	CDR
21482-009	B4-S	EPA 6010 (Lead)	11/07/97	ND	Soil, mg/kg	5.0	5.0	CDR
21482-010	B4-1.5	EPA 6010 (Lead)	11/07/97	ND	Soil, mg/kg	5.0	5.0	CDR
21482-011	B5-S	EPA 6010 (Lead)	11/07/97	122	Soil, mg/kg	5.0	5.0	CDR
21482-012	B5-1.5	EPA 6010 (Lead)	11/07/97	7.6	Soil, mg/kg	5.0	5.0	CDR
21482-013	T2-S	EPA 6010 (Lead)	11/07/97	19	Soil, mg/kg	5.0	5.0	CDR
21482-014	T2-1.5	EPA 6010 (Lead)	11/07/97	6.0	Soil, mg/kg	5.0	5.0	CDR
21482-015	B6-S	EPA 6010 (Lead)	11/07/97	468	Soil, mg/kg	5.0	5.0	CDR
21482-016	B6-1.5	EPA 6010 (Lead)	11/07/97	42	Soil, mg/kg	5.0	5.0	CDR

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DF = Dilution Factor (DLR/MDL)

Reviewed/Approved By: Cheryl De Los Reyes
 Cheryl De Los Reyes
 Department Supervisor

Date: 11/7/97

The cover letter is an integral part of this analytical report.

Client: Geocon Environmental
 Attn: Mr. Mark Wanek

Client's Project: Route 90, 08730-06-54

Date Received: 11/05/97

Date Sampled: 11/05/97

Date Extracted: 11/08/97

Extraction Method: WET (Title 22, CCR, 66261.100 Appendix II)

Lab No.	Sample I.D.	Analysis	Date Analyzed	Results	Matrix, Units	MDL	DLR	Analyst
21482-001	B1-S	EPA 7420 (Lead)	11/10/97	3.8	STLC Extract, mg/L	0.15	0.15	LP/DJ
21482-003	B2-S	EPA 7420 (Lead)	11/10/97	18	STLC Extract, mg/L	0.15	0.75	LP/DJ
21482-005	T1-S	EPA 7420 (Lead)	11/10/97	23	STLC Extract, mg/L	0.15	0.75	LP/DJ
21482-008	B3-1.5	EPA 7420 (Lead)	11/10/97	4.6	STLC Extract, mg/L	0.15	0.15	LP/DJ
21482-011	B5-S	EPA 7420 (Lead)	11/10/97	10	STLC Extract, mg/L	0.15	0.15	LP/DJ
21482-015	B6-S	EPA 7420 (Lead)	11/10/97	43	STLC Extract, mg/L	0.15	1.5	LP/DJ
21482-015D	B6-S	EPA 7420 (Lead)	11/10/97	44	STLC Extract, mg/L	0.15	1.5	LP/DJ

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DF = Dilution Factor (DLR/MDL)

Reviewed/Approved By: Cheryl De Los Reyes
 Cheryl De Los Reyes
 Department Supervisor

Date: 11/10/97

The cover letter is an integral part of this analytical report.

Spike Recovery and RPD Summary Report

Method: EPA7420
 Analyst: LP/DJ
 Data File: AA71110-1
 QA File: 7314-2

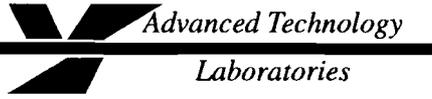
Date Analyzed: 11/10/97
 Date Digested: 11/08/97
 Sample ID: SEE BELOW
 Matrix: SILC EXTRACT

SPL ID	UNITS	LCS Conc	LCS Res	% Rec	METH BLANK	SPL CONC	SPL DU	% Dev	SPK ADDED	MS RESULT	MSD RESULT	%MS REC	%MSD REC	% REC Limit	RPD	RPD Limit	MDL
21481-024	mg/L	5.0	5.1	102	ND	3.3	3.4	3	5.0	6.7	6.6	68	66	50-150	3	50	0.15
21482-015	mg/L	5.0	5.1	102	ND	4.3	4.4	2	5.0	8.3	8.3	80	80	50-150	0	50	0.15
21474-010	mg/L	5.0	5.0	100	ND	2.7	2.9	7	5.0	6.5	6.5	76	76	50-150	0	50	0.15
21474-020	mg/L	5.0	5.0	100	ND	4.2	4.4	5	5.0	7.2	7.4	60	64	50-150	6	50	0.15
21474-025	mg/L	5.0	4.3	86	ND	3.5	3.5	0	5.0	6.6	6.6	62	62	50-150	0	50	0.15

Approved by: Cheryl De Los Reyes
 Cheryl De Los Reyes
 Inorganics Supervisor

Date: 11/10/97

CHAIN OF CUSTODY RECORD



1510 E. 33rd Street
Signal Hill, CA 90807
(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

Batch #: _____ D.O. # _____	Method of Transport Walk-in <input checked="" type="checkbox"/> Courier <input type="checkbox"/> UPS <input type="checkbox"/> FED. EXP. <input type="checkbox"/> ATL <input type="checkbox"/>	Sample Condition Upon Receipt 1. COOLER TEMP °C _____ (2-6) 5. SEALED <input type="checkbox"/> N <input checked="" type="checkbox"/> 2. CHILLED <input type="checkbox"/> N <input checked="" type="checkbox"/> 6. # OF SPLS MATCH COC <input checked="" type="checkbox"/> N <input type="checkbox"/> 3. HEADSPACE (VOA) <input type="checkbox"/> N <input type="checkbox"/> 7. PRESERVED <input type="checkbox"/> N <input checked="" type="checkbox"/> 4. CONTAINER INTACT <input checked="" type="checkbox"/> N <input type="checkbox"/> 8. CONTR. LOT # _____
P.O.#: _____	Logged By: <u>(W)</u> Date: <u>11-5</u> Time: <u>15:00</u>	

Client: <u>Geocon</u>	Address: <u>6970 Flanders Dr</u>	TEL: <u>(619) 558-8437</u>
Attn: <u>Joel Kloth</u>	City: <u>San Diego</u> State: <u>CA</u> Zip Code: <u>92121</u>	FAX: <u>(619) 558-8437</u>

Project Name: <u>Route 90</u>	Project #: <u>08730-06-54</u>	Sampler: <u>Mark Wanek</u> (Printed Name)	(Signature)
Relinquished by: (Signature and Printed Name) <u>Mark Wanek Mark Wanek</u>	Date: _____ Time: _____	Received by: (Signature and Printed Name) <u>Mark Wanek</u>	Date: <u>11-5-97</u> Time: <u>14:25</u>
Relinquished by: (Signature and Printed Name) _____	Date: _____ Time: _____	Received by: (Signature and Printed Name) _____	Date: _____ Time: _____
Relinquished by: (Signature and Printed Name) _____	Date: _____ Time: _____	Received by: (Signature and Printed Name) _____	Date: _____ Time: _____

SHIP TO LAB: (SUB CONTRACT) _____	I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: <u>Mark Wanek</u> Date: <u>11/05/97</u>	Send Report To: Attn: <u>same Mark Wanek</u>	Special Instructions/Comments: <u>See pg. 1</u>
TEST: _____	Print Name: <u>Mark Wanek</u> Signature: <u>Mark Wanek</u>	Co: <u>same</u>	
ATL #: _____		Address: _____	
DATE: _____		City: _____ State: _____ Zip: _____	
CLIENT I.D.: _____			

Unless otherwise requested, all samples will be disposed 45 days after receipt.	Sample Archive/Disposal: <input type="checkbox"/> Laboratory Standard <input type="checkbox"/> Other _____ <input type="checkbox"/> Return To: _____	Circle or Add Analysis(es) Requested <i>(Diagonally hatched boxes for analysis types)</i>	CIRCLE APPROPRIATE MATRIX <i>(Diagonally hatched boxes for matrix types)</i>	QA/QC
* \$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.		PRESERVATION		
RTNE <input type="checkbox"/>				
RWQCB <input type="checkbox"/>				
WIP <input type="checkbox"/>				
NAVY <input type="checkbox"/>				
CT <input checked="" type="checkbox"/>				
OTHER <input type="checkbox"/>				

ITEM	LAB USE ONLY:		Sample Description				Analysis/Matrix										REMARKS
	Batch #:	Lab No.	Sample I.D.	Date	Time	Container(s)											
		<u>21482-001</u>	<u>B1-S</u>	<u>11/05</u>	<u>11:57</u>	4g-hr J-G											
		<u>002</u>	<u>B1-1.5</u>		<u>12:12</u>												
		<u>003</u>	<u>B2-S</u>		<u>12:21</u>												
		<u>004</u>	<u>B2-1.5</u>		<u>12:22</u>												
		<u>005</u>	<u>T1-S</u>		<u>12:23</u>												
		<u>006</u>	<u>T1-1.5</u>		<u>12:24</u>												
		<u>007</u>	<u>B3-S</u>		<u>12:31</u>												
		<u>008</u>	<u>B3-1.5</u>		<u>12:32</u>												
		<u>009</u>	<u>B4-S</u>		<u>12:36</u>												
		<u>010</u>	<u>B4-1.5</u>		<u>12:43</u>												

• TAT starts 8 a.m. following day if samples received after 5 p.m.	TAT: A= <u>Overnight ≤ 24 hr</u>	B= <u>Emergency Next workday</u>	C= <u>Critical 2 Workdays</u>	D= <u>Urgent 3 Workdays</u>	E= <u>Routine 7 Workdays</u>	Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₈
Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Tedlar G=Glass P=Plastic M=Metal						

CHAIN OF CUSTODY RECEIPT

Advanced Technology Laboratories 1510 E. 33rd Street Signal Hill, CA 90807 (562) 989-4045 • FAX (562) 989-4040	FOR LABORATORY USE ONLY:		Method of Transport		Sample Condition Upon Receipt	
	Batch #: _____ D.O. # _____	Walk-in <input checked="" type="checkbox"/>	1. COOLER TEMP °C _____ (2-6)	5. SEALED	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
	P.O.#: _____	Courier <input type="checkbox"/>	2. CHILLED	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	6. # OF SPLS MATCH COC	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
	Logged By: <u>(Signature)</u>	UPS <input type="checkbox"/>	3. HEADSPACE (VOA)	Y <input type="checkbox"/> N <input type="checkbox"/>	7. PRESERVED	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
Date: <u>11-5</u> Time: <u>1500</u>	FED. EXP. <input type="checkbox"/>	4. CONTAINER INTACT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	8. CONTR. LOT # _____		
ATL <input type="checkbox"/>						

Client: <u>Geacon</u>	Address: <u>6970 Flanders</u>	TEL: (619) 558-6100
Attn: <u>Joel Kloth</u>	City: <u>San Diego</u> State: <u>CA</u> Zip Code: <u>92121</u>	FAX: (619) 558-8437

Project Name: <u>Route 90</u>	Project #: <u>08130-06-54</u>	Sample: <u>Mark Waneck</u> (Printed Name)	(Signature) <u>Mark Waneck</u>
Relinquished by: (Signature and Printed Name) <u>Mark Waneck Mark Waneck</u>	Date: _____ Time: _____	Received by: (Signature and Printed Name) <u>Joel Kloth</u>	Date: <u>11-5-97</u> Time: <u>14:25</u>
Relinquished by: (Signature and Printed Name) _____	Date: _____ Time: _____	Received by: (Signature and Printed Name) _____	Date: _____ Time: _____
Relinquished by: (Signature and Printed Name) _____	Date: _____ Time: _____	Received by: (Signature and Printed Name) _____	Date: _____ Time: _____

SHIP TO LAB: (SUB CONTRACT) _____	I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: <u>Mark Waneck</u> Date: <u>11/05/97</u>	Send Report To: Attn: <u>Mark Waneck</u>	Special Instructions/Comments: <u>See pg. 1</u>
TEST: _____	Print Name: <u>Mark Waneck</u>	Co: <u>same</u>	
ATL #: _____	Date: <u>11/05/97</u>	Address: _____	
DATE: _____	Signature: <u>Mark Waneck</u>	City: _____ State: _____ Zip: _____	
CLIENT I.D. _____			

Unless otherwise requested, all samples will be disposed 45 days after receipt.	Sample Archive/Disposal: <input type="checkbox"/> Laboratory Standard <input type="checkbox"/> Other <input type="checkbox"/> Return To: _____ * \$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.	Circle or Add Analysis(es) Requested 601/8010 (Halogenated Volatiles-GC) 602/8020/BTEX (Aromatic Volatiles-GC) 603/8030 (Pesticides/PCB-GC) 624/8240 (Volatiles-GC/MS) 625/8250 (Volatiles-GC/MS) 801/8M (BNA-GC/MS) 801/8M TPH/GBTEX (COMBINATION) 418.1 (TPH-HR) Metals Total (CAC 601/801000)	CIRCLE APPROPRIATE MATRIX SOLID • <u>601</u> • SLUDGE OIL • SOLVENT • LIQUID WATER • WASTEWATER DRINKING WATER AIR WIPE • FILTER OTHER	PRESERVATION RTNE <input type="checkbox"/> RWQCB <input type="checkbox"/> WIP <input type="checkbox"/> NAVY <input type="checkbox"/> CT <input checked="" type="checkbox"/> OTHER
LAB USE ONLY: Batch #:	Sample Description			
Lab No.	Sample I.D.	Date	Time	Container(s) TAT # Type
<u>21482-011</u>	<u>B5-S</u>	<u>11/5</u>	<u>12:44</u>	<u>48 hr 1 J G</u>
<u>012</u>	<u>B5-1.5</u>	<u>*</u>	<u>12:50</u>	<u>1 J G</u>
<u>013</u>	<u>T2-S</u>		<u>12:55</u>	<u>1 J G</u>
<u>014</u>	<u>T2-1.5</u>		<u>12:57</u>	<u>1 J G</u>

• TAT starts 8 a.m. following day if samples received after 5 p.m.	TAT: A= Overnight ≤ 24 hr	B= Emergency Next workday	C= Critical 2 Workdays	D= Urgent 3 Workdays	E= Routine 7 Workdays	Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal						