



SP ENVIRONMENTAL SYSTEMS, INC.

9719 LINCOLN VILLAGE DR., SUITE 310 SACRAMENTO, CA 95827 (916) 369-8971 FAX (916) 369-8370
91 APR 11 3:32

April 1, 1991

Mr. Lawrence Seto
Division of Hazardous Materials
Alameda County Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

**SUBJECT: Transmittal of Report
Southern Pacific Transportation Company
Adjacent to Curoco Property
536 Cleveland Street
Albany, California
SPEvS Project No. 05294**

Dear Mr. Seto:

On behalf of Southern Pacific Transportation Company (SPTCo), SP Environmental Systems, Inc. (SPEvS) is submitting the enclosed report for the site remediation conducted on the SPTCo right-of-way located adjacent to Curoco Steel Systems property at 536 Cleveland Street in Albany, California.

Two copies of the above referenced report are enclosed for your review. If you have questions regarding this report, or wish to discuss this information in greater detail, please do not hesitate to call Ms. Patricia Curl at your earliest convenience at (916) 369-8971.

Sincerely,

A handwritten signature in cursive script that reads "Patricia Curl".

Patricia Curl
Assistant Project Manager

A handwritten signature in cursive script that reads "Mark S. Dockum".

Mark S. Dockum, R.G.
Project Manager

Enclosures

cc: Mr. David Long, Esq. (without enclosure)
Mr. Ron Mayo



**SOUTHERN PACIFIC TRANSPORTATION COMPANY
ADJACENT TO CUROCO PROPERTY
536 CLEVELAND STREET
ALBANY, CALIFORNIA**

SPEvS Project No. 05294

Prepared for:

Southern Pacific Transportation Co.

One Market Plaza
San Francisco, California 94105

Prepared by:

SP Environmental Systems, Inc.

9719 Lincoln Village Dr., Suite 310
Sacramento, California 95827

March 28, 1991

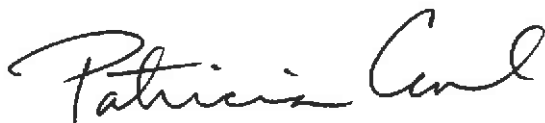
A report prepared for:

Southern Pacific Transportation Company
One Market Plaza
San Francisco, CA 94105

**SOUTHERN PACIFIC TRANSPORTATION COMPANY
ADJACENT TO CUROCO PROPERTY
536 CLEVELAND STREET
ALBANY, CALIFORNIA**

Project No. 05294

Prepared by:

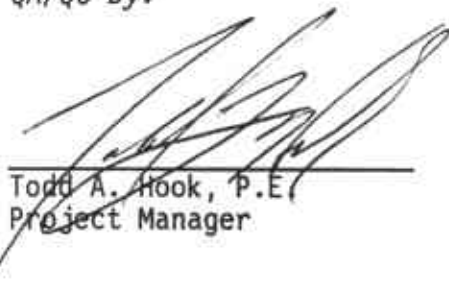


Patricia Curl
Project Hydrologist



Mark S. Dockum, R.G.
Project Manager

QA/QC by:



Todd A. Hook, P.E.
Project Manager

SP Environmental Systems, Inc.
9719 Lincoln Village Drive, Suite 310
Sacramento, California 95827
(916) 369-8971

March 28, 1991

TABLE OF CONTENTS

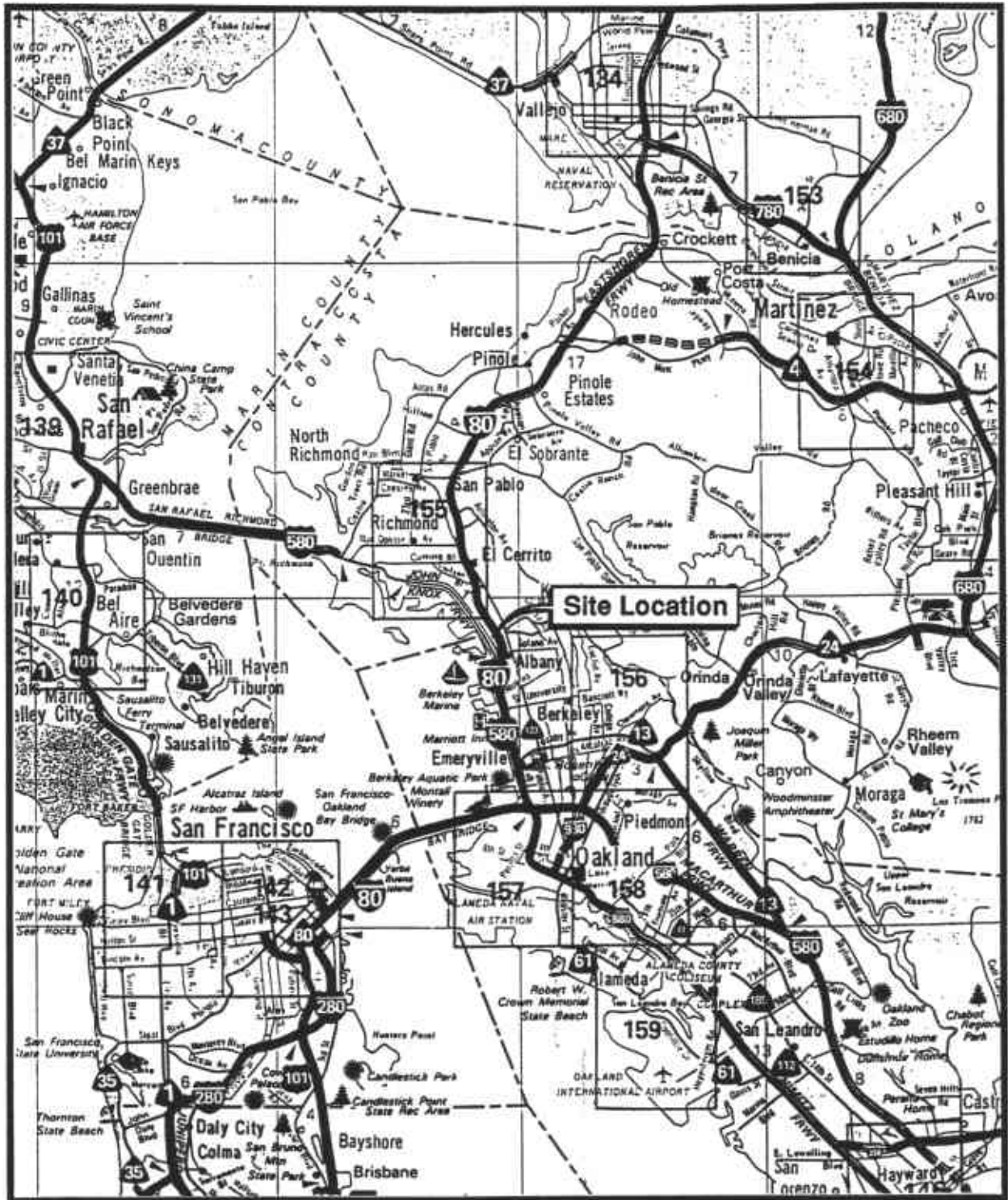
	PAGE
1.0 INTRODUCTION	1
2.0 FIELD ACTIVITIES	3
2.1 Sampling Locations and Procedures	5
3.0 ANALYTICAL RESULTS	8
4.0 DISPOSAL ACTIVITIES	10
5.0 CONCLUSIONS AND RECOMMENDATIONS	11
TABLE 1 Summary of Analytical Results	9
FIGURE 1 Site Location Map	2
FIGURE 2 Site Plan	4
APPENDIX A Laboratory Reports	
APPENDIX B Manifests	

1.0 INTRODUCTION

This report summarizes the excavation activities performed by SP Environmental Systems, Inc. (SPEvS) on Southern Pacific Transportation Company (SPTCo) property adjacent to Curoco Steel Systems in Albany, California. The property location is shown on Figure 1.

Approximately 200 cubic yards (cy) of soil had been excavated to approximately 18 inches below ground surface (BGS) on SPTCo and Curoco Steel Systems (Curoco) property by Curoco's contractor (SITE, Inc.) during Curoco's site remediation project. Curoco's site remediation project was performed to remediate metals impacted soil and was conducted under Alameda County Health Agency oversight. During excavation activities, a corrugated metal pipe (CMP) containing soil and oily sludge was uncovered on the SPTCo right-of-way by SITE, Inc. The CMP was observed to be in poor condition. Several small areas of ponded water near the pipe had a thin oil sheen, and soil along the pipe was visibly stained in places.

SPEvS responded to remediate the area where the CMP was discovered.



Reference:
Thomas Bros. Map
of California, 1990

APPROXIMATE
SCALE



**SP ENVIRONMENTAL
SYSTEMS, INC.**

PROJECT NO: 05294 DATE: 03/14/91

DRAWN BY: PD CHECKED BY: PC

**SITE LOCATION MAP
SOUTHERN PACIFIC TRANSPORTATION CO.
ADJACENT TO CUROCO PROPERTY
ALBANY, CALIFORNIA**

FIGURE:
1

SCALE:
as shown

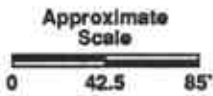
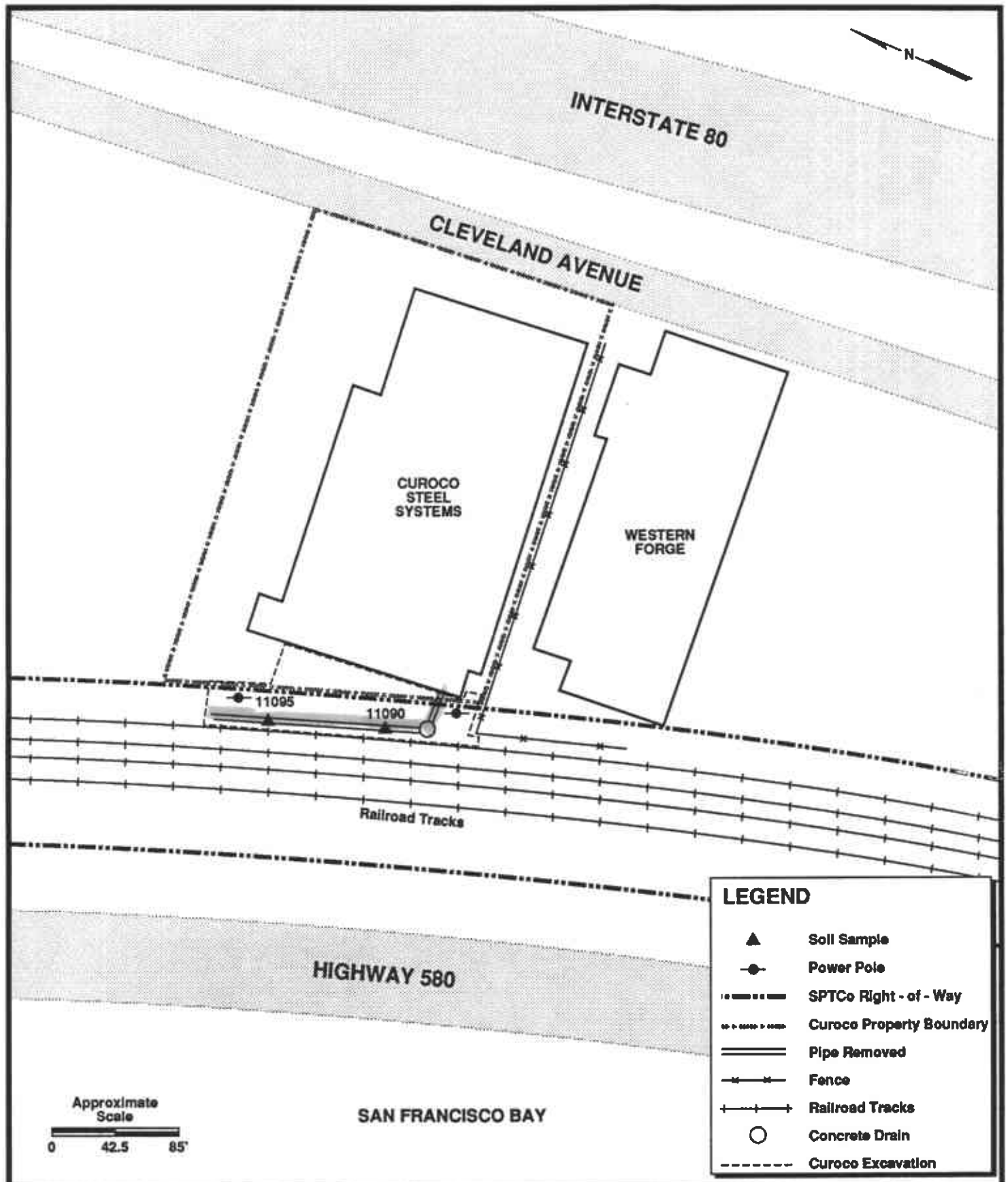
2.0 FIELD ACTIVITIES

A site visit was performed by SPEvS on February 1, 1991, at the Curoco Steel Systems property located at 536 Cleveland Street in Albany, California. The Curoco property is adjacent to SPTCo property (Figure 2).

At the time of SPEvS' visit, SITE Inc., (a hazardous waste subcontractor) was conducting, on behalf of Curoco, onsite treatment of metals-impacted soil (primarily lead, zinc, and chromium) using a chelation treatment method. The metals had apparently originated from previous sand-blasting activities conducted by Curoco. Approximately 200 cy of soil had been excavated to approximately 18 inches BGS on Curoco and SPTCo property (appropriate right-of-entry onto SPTCo property had been acquired by SITE, Inc.). During excavation, a corrugated metal pipe (CMP) containing soil and apparently an oily sludge was uncovered on the SPTCo right-of-way. After removal of the pipe, the overlapping seams of the corrugated metal showed wide gaps and holes were observed in the pipe. Several small areas of ponded water near the pipe had a thin oil sheen, and soil along the pipe was visibly stained in places. Ground water at the site is approximately one to two feet below grade. This property is located approximately 100 yards east of the San Francisco Bay.

Heavy rains on February 2 and 4, 1991, resulted in the formation of a small pond submerging the pipe. A thin film of oil (apparently originating from the pipe) formed on the water of the small pond. SITE, Inc., was contracted by SPEvS to perform emergency response at the site. Abatement of the oil from the water was performed with the use of absorbent booms and pads.

During the period of February 13 through 15, 1991, soil around and covering the drain pipe was excavated. Visibly affected soil was placed on plastic. The water from the excavation was pumped into two 25,000-gallon portable tanks for temporary storage onsite in order to expose the oil-containing pipe. It was then discovered that, at the south end of the property, the pipe is located under the Curoco warehouse and runs toward the railroad tracks and into a concrete drain.



SP ENVIRONMENTAL SYSTEMS, INC.

PROJECT NO: 05294 DATE: 03/08/91

DRAWN BY: PD CHECKED BY: PC

**SITE PLAN
SOUTHERN PACIFIC TRANSPORTATION CO.
ADJACENT TO CUROCO PROPERTY
ALBANY, CALIFORNIA**

FIGURE:
2

SCALE:
as shown

From there the pipe continues northward for approximately 150 feet, parallel to the railroad tracks on the SPTCo right-of-way. The pipe appears to be part of an old drainage system for the area. The portion of the pipe that was removed was approximately two-thirds full of clay soil and oily sludge. The northern extent of the pipe was not excavated. The pipe and contents were then removed from the excavation by means of a backhoe and immediately placed on plastic. The plastic, pipe, soil, and used absorbent booms and pads were then placed into roll-off bins for later disposal. Visibly affected soil was removed from the sides and bottom of the excavation and placed in the roll-off bins. Approximately 36 cy of soil and pipe were excavated. The ends of the remaining pipe were capped with concrete and remained undisturbed. The south end of the pipe at the Curoco building contained a small amount of soil and sludge. The north end of the pipe where it was capped with concrete contained a small amount of soil and sludge. Several gallons per minute of water was flowing from this end of the pipe into the excavation before it was capped. The location of the pipe further northward is unknown.

Mr. Lawrence Seto of the Alameda County Health Agency met with Ms. Patricia Curl of SPEvS, Mr. Ron Mayo of Curoco, Dr. Robert Ellgas of Environ, and Mr. Shawn Sabharwal of SITE, Inc., on March 1, 1991, to discuss the field activities performed at the Curoco and SPTCo properties. Mr. Seto requested a report be submitted by SPEvS documenting field activities, laboratory results, and waste disposal.

2.1 Sampling Locations and Procedures

One oily sludge sample was collected on February 4, 1991, by Environ (contractor to Curoco) on behalf of SPEvS. The sample (Env-1) was collected from the oily sludge inside the pipe and was analyzed for PCBs.

Two oil and two water samples were collected by SITE, Inc. (SITE-1 through SITE-4) on February 7, 1991, on behalf of SPEvS. The oil samples were collected from the floating oil on the ponded water and the water samples were collected from under the oil. All four samples were analyzed for PCBs.

A total of three soil samples (11090, 11095, 001) and one water sample (002) were collected by SPEvS on February 15, 1991. Samples 11090 and 11095 were collected from the native soil below the pipe where the pipe parallels the railroad tracks. Samples 11090 and 11095 were analyzed for total petroleum hydrocarbons (TPH). The samples were collected at approximately 3 feet BGS. The soil under the pipe was thick blue-green clay. No oil or odors were observed. Sample 001 was collected from the water in one of the storage tanks on February 21, 1991, and was analyzed for TPH, PCBs and metals. Sample 002 was collected on February 21, 1991, from the oily sludge inside the pipe after it had been put inside the roll-off bin and was analyzed for TPH, PCBs, and metals. The locations of sample 11090 and 11095 and the removed CMP are shown on Figure 2.

Upon selecting the sampling locations, each sample was obtained by the following procedures:

- A sample of undisturbed oily sludge (Env-1) was collected from inside the CMP by Environ and placed into an 8-oz. glass jar. Two oil samples were collected (SITE-1 and SITE-2) from the oil layer on the surface of the ponded water by SITE, Inc. Two water samples (SITE-3 and SITE-4) were collected from the ponded water. All four samples were collected by dipping a glass jar into the ponded water or oil.
- The backhoe was used to excavate a portion of soil beneath the former pipe location for samples 11090 and 11095. A sample of undisturbed soil was collected from the backhoe bucket and placed into an 8-oz. glass jar.
- Sample 001 was collected from the water inside the tank by lowering a disposable bailer into the tank. The collected water was poured from the bailer into three 16 oz. amber glass bottles and one 500 ml plastic bottle.
- Sample 002 was collected from inside the pipe after the pipe was removed and placed in the roll-off bin for disposal.

All samples, including those collected by Environ and SITE were labeled, logged on a chain-of-custody form, and stored in an iced cooler until delivery to a state-certified analytical laboratory.

Sample Env-1 was analyzed for PCBs (EPA Method 8080) by Curtis & Tompkins, LTD., Analytical Laboratories in Berkeley, California. Samples SITE-1, SITE-2, SITE-3, and SITE-4 were analyzed for PCBs (EPA Method 608) by Anamatrix in San Jose, California.

Samples 11090 and 11095 were analyzed for total petroleum hydrocarbons (TPH) by EPA Method 8015 Modified (extractables). Samples 001 and 002 were analyzed for TPH by EPA Method 8015 modified, PCBs by EPA Method 8080 for soil and by Method 608 for water, and for California Code of Regulations (C.C.R.) Title 22 protocol metals. All analyses performed on samples 11090, 11095, 001, and 002 were analyzed by Enseco, Inc. in Sacramento, California.

3.0 ANALYTICAL RESULTS

Analytical results of sample Env-1 indicated PCB concentrations (Aroclor 1254) of 2.0 mg/kg in the oily sludge. Analytical results from oil samples SITE-1 and SITE-2 indicated PCB concentrations of 39 ug/l and 17 ug/l (Aroclor 1254), respectively. The analytical results from water samples SITE-3 and SITE-4 indicated PCB concentrations below laboratory detection limits.

Analytical results of samples 11090 and 11095 from the native soil below the pipe did not detect TPH concentrations above laboratory detection limits in either sample. The analytical results from water sample 001 did not indicate any constituent to be above laboratory detection limits. The analytical results from sludge sample 002 indicated TPH concentrations of 230 mg/kg as diesel and PCB concentrations not above laboratory detection limits. Metals were detected in sample 002, the highest of these concentrations were lead of 62 mg/kg, chromium of 103 mg/kg, and zinc of 676 mg/kg.

Analytical results are summarized in Table 1 and laboratory data sheets are included as Appendix A.

TABLE 1
 Summary of Analytical Results
 SOUTHERN PACIFIC TRANSPORTATION COMPANY
 Adjacent to Curoco Property
 536 Cleveland Street, Albany, California
 February 4 - 21, 1991
 SPEvS Project No. 05294

SAMPLE #	SAMPLE LOCATION	TPH ^d	PCBs ^e	METALS ^f															
				Sb	As	Ba	Bc	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	Ag	Tl	V	Zn
Env-1 ^a	Oil from inside pipe	NA	30 mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SITE-1 ^b	Oil on north pond	NA	38 ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SITE-2 ^b	Oil on south pond	NA	16 ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SITE-3 ^b	Ponded water	NA	<1.1 ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SITE-4 ^b	Ponded water	NA	<1.1 ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
001 ^c	Water from tank	<0.10 mg/l	<5.0 ug/l	<1	<.5	<.5	<.05	<.05	<.5	<.5	<2	<.5	<30	<2	<.2	<.5	<2	<.2	<20
002 ^c	Oily sludge from inside pipe	230 mg/kg	<50 ug/kg	<10	47.0	139	<.75	<1.0	103	<80	61.6	62.0	350	147	<10	<.5	<50	38.7	676
11090 ^c	Soil under south end of pipe	<1.0 mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
11095 ^c	Soil under north end of pipe	<1.0 mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

< Symbol indicates below method detection as listed.
 NA Not Analyzed.

- a Sample collected by Environ. Laboratory report included in Appendix A.
 b Sample collected by SITE, Inc. Laboratory report included in Appendix A.
 c Sample collected by SPEvS. Laboratory reports included in Appendix A.
 d Total Petroleum Hydrocarbons (TPH) analyzed by EPA Method 8015 utilizing gas chromatography/flame ionization detector (GC/FID) procedures.
 e Polychlorinated biphenyls (PCBs) analyzed by EPA Method 8080 for soil and Method 608 for water.
 f Metals analyzed by California Code of Regulations (C.C.R.) Title 22 Protocol. Results are shown as mg/l for water and mg/kg for soil.

Sb = Antimony	Cd = Cadmium	Pb = Lead	Ag = Silver
As = Arsenic	Cr = Chromium	Mo = Molybdenum	Tl = Thallium
Ba = Barium	Co = Cobalt	Ni = Nickel	V = Vanadium
Be = Beryllium	Cu = Copper	Se = Selenium	Zn = Zinc

4.0 DISPOSAL ACTIVITIES

The City of Albany, Alameda County Health Agency, and the Regional Water Quality Control Board (San Francisco Bay Region) were contacted regarding the requirements for discharging the approximately 35,000 gallons of water stored in two onsite tanks. All three agencies stated that if the analytical results indicated all constituents to be below detection limits, then no permits were required and the water could be discharged to the storm sewer. The analytical results from water sample 001 indicated all constituents to be below detection limits; therefore, the water was discharged on February 27, 1991, into the nearby storm sewer. The remaining sediment in the bottom of the tanks was cleaned out and put into the roll-off bins for disposal with the soil, sludge, and CMP.

The CMP, contents of the CMP, and underlying soil were removed for disposal. Approximately 36 cy of soil, sludge, CMP, and used absorbent booms and pads were transported in 3 roll-off-bins on March 7, 1991 under manifest by Erickson, Inc., to Chemical Waste Management's (CWM) Kettleman Hills landfill in Kettleman City, California. The contents of the roll-off-bins were manifested as non-hazardous waste. The bins were sent to the Kettleman Hills landfill because CWM could accept the bins sooner and at a lower cost than Class II landfills in the area. Copies of the manifests for the 3 roll-off bins transported to the landfill are included as Appendix B.

The excavation was partially backfilled with gravel during excavation activities to allow access to areas of the site. It is SPEvS' understanding that Curoco will complete site closure activities as part of its site remediation program which will include backfill compaction to 90% and asphalt pavement.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The CMP removed from the site appeared to be part of an old drainage system for the Albany area. SPEvS believes that the oil in the pipe most likely originated from one or more of the industrial business adjacent to the railroad right-of-way and not from SPTCo operations. The SPTCo property at this location is a right-of-way for four railroad tracks. No other SPTCo operations are conducted at this location.

Very low levels of PCBs were detected in one of the two samples from inside the CMP and from the two oil samples. The affected soils and oil were transported and disposed at the Chemical Waste Management landfill in Kettleman City, California. None of the water samples collected had detectable levels of PCBs, TPH, or metals. The analytical results also indicated that soils underlying the pipe do not contain TPH concentrations above laboratory detection limits.

Analytical results indicate that the remediation of the portion of the SPTCo right-of-way adjacent to the Curoco property is complete. Curoco will complete site backfilling and asphaltting of the Curoco and SPTCo properties. Therefore, SPEvS recommends no further action for this portion of the SPTCo property.

APPENDIX A
LABORATORY REPORTS

ANAMETRIX INC

Environmental & Analytical Chemistry
 961 Concourse Drive, Suite E, San Jose, CA 95131
 (408) 432-8192 - Fax (408) 432-8199



REPORT

MR. SHAWN SABHARWAL
 SJTE
 1240 BAYSHORE HIGHWAY, SUITE 305
 BURLINGAME, CA 94010

Workorder # : 9102068
 Date Received : 02/06/91
 Project ID : ~~67007~~ 2400
 Purchase Order: N/A

The following samples were received at Anamatrix, Inc. for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9102068- 1	001 SITE-1
9102068- 2	002 SITE-2
9102068- 3	003 SITE-3
9102068- 4	004 SITE-4

This report consists of 8 pages not including the cover letter, and is organized in sections according to the specific Anamatrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anamatrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anamatrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anamatrix.

Burt Sutherland
 Burt Sutherland
 Laboratory Director

2-11-91
 Date

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. SHAWN SABHARWAL
SITE
1240 BAYSHORE HIGHWAY, SUITE 305
BURLINGAME, CA 94010

Workorder # : 9102068
Date Received : 02/06/91
Project ID : ~~67007~~ 2400
Purchase Order: N/A
Department : GC
Sub-Department: PEST

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9102068- 1	001 SITE-1	WATER	02/06/91	8080 PCB
9102068- 2	002 SITE-2	WATER	02/06/91	8080 PCB
9102068- 3	003 SITE-3	WATER	02/06/91	8080 PCB
9102068- 4	004 SITE-4	WATER	02/06/91	8080 PCB

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. SHAWN SABHARWAL
SITE
1240 BAYSHORE HIGHWAY, SUITE 305
BURLINGAME, CA 94010

Workorder # : 9102068
Date Received : 02/06/91
Project ID : ~~67007~~ 2700
Purchase Order: N/A
Department : GC
Sub-Department: PEST

QA/QC SUMMARY :

-The surrogate recoveries for samples 003 and 004 were outside control limits due to the extensive acid clean up.
Also, the surrogate recovery for sample 001 was outside control limits due to matrix interference.

Stratos Dimons 2-11-91
Department Supervisor Date

Stephanie N Tran 2-11-91
Chemist Date

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 808/8080
 ANAMETRIX, INC. (408)432-8192

Project ID : 67007 2400
 Sample ID : 001
 Matrix : WATER
 Date Sampled : 2/ 6/91
 Date Extracted : 2/ 6/91
 Amount Extracted : 750.0 mL
 Date Analyzed : 2/ 7/91
 Instrument ID : HP 5

Anamatrix ID : 9102068-01
 Analyst : *CF*
 Supervisor : *SP*

Dilution Factor : 5.00
 Conc. Units : UG/L

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
12674-11-2	Aroclor-1016	3.3	ND	U
11104-28-2	Aroclor-1221	3.3	ND	U
11141-16-5	Aroclor-1232	3.3	ND	U
53469-21-9	Aroclor-1242	3.3	ND	U
12672-29-6	Aroclor-1248	3.3	ND	U
11097-69-1	Aroclor-1254	6.7	38.	U
11096-82-5	Aroclor-1260	6.7	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 608/8080
 ANAMETRIX, INC. (408)432-8192

Project ID : 67007 2700
 Sample ID : 002
 Matrix : WATER
 Date Sampled : 2/ 6/91
 Date Extracted : 2/ 6/91
 Amount Extracted : 800.0 mL
 Date Analyzed : 2/ 7/91
 Instrument ID : HP 5

Anamatrix ID : 9102068-02
 Analyst : ST
 Supervisor : SD

Dilution Factor : 3.00
 Conc. Units : UG/L

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
12674-11-2	Aroclor-1016	1.9	ND	U
11104-28-2	Aroclor-1221	1.9	ND	U
11141-16-5	Aroclor-1232	1.9	ND	U
53469-21-9	Aroclor-1242	1.9	ND	U
12672-29-6	Aroclor-1248	1.9	ND	U
11097-69-1	Aroclor-1254	3.7	16.	U
11096-82-5	Aroclor-1260	3.7	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 608/8080
 ANAMETRIX, INC. (408)432-8192

Project ID : ~~67007~~ 2400
 Sample ID : 003
 Matrix : WATER
 Date Sampled : 2/ 6/91
 Date Extracted : 2/ 6/91
 Amount Extracted : 950.0 mL
 Date Analyzed : 2/ 7/91
 Instrument ID : HP 5

Anamatrix ID : 9102068-03
 Analyst : ~~S~~
 Supervisor : S

Dilution Factor : 1.00
 Conc. Units : UG/L

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
12674-11-2	Aroclor-1016	.53	ND	U
11104-28-2	Aroclor-1221	.53	ND	U
11141-16-5	Aroclor-1232	.53	ND	U
53469-21-9	Aroclor-1242	.53	ND	U
12672-29-6	Aroclor-1248	.53	ND	U
11097-69-1	Aroclor-1254	1.1	ND	U
11096-82-5	Aroclor-1260	1.1	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 600/8080
 ANAMETRIX, INC. (408)432-8192

Project ID : ~~67007~~ 2700
 Sample ID : 004
 Matrix : WATER
 Date Sampled : 2/ 6/91
 Date Extracted : 2/ 6/91
 Amount Extracted : 950.0 mL
 Date Analyzed : 2/ 7/91
 Instrument ID : HP 5

Anamatrix ID : 9102068-04
 Analyst : ST
 Supervisor : SD

Dilution Factor : 1.00
 Conc. Units : UG/L

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
12674-11-2	Aroclor-1016	.53	ND	U
11104-28-2	Aroclor-1221	.53	ND	U
11141-16-5	Aroclor-1232	.53	ND	U
53469-21-9	Aroclor-1242	.53	ND	U
12672-29-6	Aroclor-1248	.53	ND	U
11097-69-1	Aroclor-1254	1.1	ND	U
11096-82-5	Aroclor-1260	1.1	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 608/8080
 ANAMETRIX, INC. (408)432-8192

Project ID : 67007 2400
 Sample ID : BLANK
 Matrix : WATER
 Date Sampled : 0/ 0/ 0
 Date Extracted : 2/ 6/91
 Amount Extracted : 1000.0 mL
 Date Analyzed : 2/ 7/91
 Instrument ID : HP 5

Anamatrix ID : PWBLK020691
 Analyst : *SK*
 Supervisor : *SD*

Dilution Factor : 1.00
 Conc. Units : UG/L

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
12674-11-2	Aroclor-1016	.50	ND	U
11104-28-2	Aroclor-1221	.50	ND	U
11141-16-5	Aroclor-1232	.50	ND	U
53469-21-9	Aroclor-1242	.50	ND	U
12672-29-6	Aroclor-1248	.50	ND	U
11097-69-1	Aroclor-1254	1.0	ND	U
11096-82-5	Aroclor-1260	1.0	ND	U

SURROGATE RECOVERY SUMMARY -- EPA METHOD 608/8080
ANAMETRIX, INC. (408)432-8192

Project ID : ~~E7007~~ 2400
Matrix : WATER

Anamatrix ID : 9102068
Analyst : ST
Supervisor : SD

	SAMPLE ID	SU1	TOTAL OUT
1	BLANK	98	0
2	003	27 *	1
3	004	28 *	1
4	001	296 *	1
5	002	96	0
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

QC LIMITS

(43-146)

SU1 = DBC

* Values outside of Anamatrix QC limits



Environmental Health Research and Testing, Inc.

1240 Bayshore Highway, Suite 305
Burlingame, California 94010

CHAIN OF CUSTODY RECORD

APR-02-1991 00:49 FROM

PROJECT NO.: 67007				PROJECT NAME / CROSS STREET:		NUMBER OF CONTAINERS	ANALYSES				REMARKS
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION						
001	2/6	1:00			North Field	Surface oil	1				
002	2/6	1:00			Coronado	Surface oil	1				
003	2/6	1:00			Coronado	Lower Water	1				
004	2/6	1:00			Coronado	Lower Water	1				

Per Dave Boyde
60870 only

RELINQUISHED BY : (Signature)	DATE : TIME :	RECEIVED BY : (Signature)	RELINQUISHED BY : (Signature)	DATE : TIME :	RECEIVED BY : (Signature)
RELINQUISHED BY : (Signature)	DATE : TIME :	RECEIVED BY : (Signature)	RELINQUISHED BY : (Signature)	DATE : TIME :	RECEIVED BY : (Signature)
RELINQUISHED BY COURIER: (Sign.)	DATE : TIME :	RECEIVED BY MOBILE LAB : (Sign.)	RELINQ. BY MOBILE LAB : (Signature)	DATE : TIME :	RECEIVED BY COURIER : (Signature)
METHOD OF SHIPMENT	SHIPPED BY : (Signature) <i>U. Schaefer</i>		RECEIVED FOR LAB : (Signature) <i>Mark Schaefer</i>	DATE : 02/00/91 TIME : 20:15	COURIER FROM AIRPORT : (Signature)

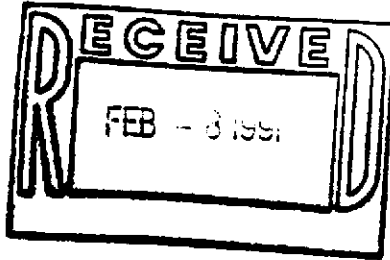
TO 19163698370 P.02

TOTAL P.02



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

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



DATE RECEIVED: 02/04/91

DATE REPORTED: 02/05/91

LAB NUMBER: 102914

CLIENT: ENVIRON

REPORT ON: 1 WASTE SAMPLE

PROJECT ID: 03-1332D
LOCATION: CUROCO

RESULTS: SEE ATTACHED

McPrite

QA/QC Approval

[Signature]

Final Approval

LAB NUMBER: 102914
CLIENT: ENVIRON
PROJECT: 03-1332D/CUROCO
SAMPLE ID: SLUDGE ON FEB 4

DATE RECEIVED: 02/04/91
DATE EXTRACTED: 02/04/91
DATE ANALYZED: 02/05/91
DATE REPORTED: 02/05/91

=====

POLYCHLORINATED BIPHENYLS (PCBs)
ANALYSIS METHOD: EPA 8080
EXTRACTION METHOD: EPA 3580

=====

AROCLOR TYPE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)
AROCLOR 1221	ND	1.0
AROCLOR 1232	ND	1.0
AROCLOR 1016	ND	1.0
AROCLOR 1242	ND	1.0
AROCLOR 1248	ND	1.0
AROCLOR 1254	2.0	1.0
AROCLOR 1260	ND	1.0

ND = Not detected at or above reporting limit.

PROJECT NAME: <u>Civico</u> CASE NO.: <u>03-1332D</u>	COLLECTION DATE	COLLECTED BY (Initials)	MATRIX	TOTAL NO. OF CONTAINERS	ANALYSES: <u>EPA 8210 for PCB</u>	COMMENTS
Sludge on Feb 4	2/4	DS	oil sludge	1	X	results attention Robert Elgas Rush analysis as soon as possible please
TOTAL	X	X	X	1	1	

Relinquished by: [Signature]

Date: 2-4-91

Time: 6:08

Received by: [Signature]

Company: CIT

Date: 2-4-91

Time: 18:08



March 11, 1991
Lab ID: 056940

Patricia Curl
S.P. Environmental
9719 Lincoln Village Dr.
Suite 310
Sacramento, CA 95827

Dear Ms. Curl:

Enclosed is the report for the two soil samples for your Curoco Project # 05294, which were received at Enseco-Cal Lab on 19 February 1991.

The report consists of the following sections:

- I Sample Description
- II Analysis Request
- III Quality Control Report
- IV Analysis Results

If you have any questions, please feel free to call.

Sincerely,

A handwritten signature in cursive script, appearing to read "Robert Weidenfeld".

Robert Weidenfeld
Program Administrator

td

I Sample Description

See the attached Sample Description Information.

The samples were received under chain-of-custody.

II Analysis Request

The following analytical test was requested.

<u>Lab ID</u>	<u>Analysis Description</u>
056940-1, 2	Total Petroleum Hydrocarbons

III Quality Control

- A. Project Specific QC. No project specific QC (i.e., spikes and/or duplicates) was requested.
- B. Method Blank Results. A method blank is a laboratory-generated sample which assesses the degree to which laboratory operations and procedures cause false-positive analytical results for your samples.

No target parameters were detected in the method blanks associated with your samples at the reporting limit levels noted on the attached Method Blank Report.

- C. Laboratory Control Samples - The LCS Program

Duplicate Control Samples. A DCS is a well-characterized matrix (blank water, sand or celite) which is spiked with certain target parameters and analyzed at approximately 10% of the sample load in order to establish method-specific control limits. The DCS results associated with your samples are on the attached Duplicate Control Sample Report.

Accuracy is measured by Percent Recovery as in:

$$\% \text{ recovery} = \frac{(\text{measured concentration})}{(\text{actual concentration})} \times 100$$

Precision is measured using duplicate tests by Relative Percent Difference (RPD) as in:

$$\text{RPD} = \frac{(\% \text{ recovery test 1} - \% \text{ recovery test 2})}{(\% \text{ recovery test 1} + \% \text{ recovery test 2})/2} \times 100$$

Control limits for accuracy (percent recovery) are based on the average, historical percent recovery +/-3 standard deviation units. Control limits for precision (relative percent difference) range from 0 (identical duplicate DCS results) to the average, historical relative percent

difference + 3 standard deviation units. In cases where there is not enough historical data, EPA limits or advisory limits are set, with the approval of the Quality Assurance department.

IV Analysis Results

Test methods may include minor modifications of published EPA Methods such as reporting limits or parameter lists. Reporting limits are adjusted to reflect dilution of the sample, when appropriate. Solid and waste samples are reported on an "as received" basis; i.e., no correction is made for moisture content, unless the method requires or the client requests that such correction be made.

Results are on the attached data sheets.

SAMPLE DESCRIPTION INFORMATION
for
SP Environmental

Lab ID	Client ID	Matrix	Sampled Date	Time	Received Date
056940-0001-SA	11090	SOIL	15 FEB 91	09:00	19 FEB 91
056940-0002-SA	11095	SOIL	15 FEB 91	14:30	19 FEB 91

METHOD BLANK REPORT
Semivolatile Organics by GC

Analyte	Result	Units	Reporting Limit
Test: TPH-GC-D-HPNS-S			
Matrix: SOIL			
QC Lot: 20 FEB 91-A QC Run: 20 FEB 91-A			
Diesel Fuel	ND	ug/kg	1000

QC LOT ASSIGNMENT REPORT
Semivolatile Organics by GC

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK)
056940-0001-SA	SOIL	TPH-D-HP-S	20 FEB 91-A	20 FEB 91-A
056940-0002-SA	SOIL	TPH-D-HP-S	20 FEB 91-A	20 FEB 91-A

DUPLICATE CONTROL SAMPLE REPORT
Semivolatile Organics by GC

Analyte	Concentration Spiked	Concentration Measured		AVG	Accuracy Average(%)		Precision (RPD)		
		DCS1	DCS2		DCS	Limits	DCS	Limit	
Category: TPH-D-HP-S Matrix: SOIL QC Lot: 20 FEB 91-A Concentration Units: ug/kg									
Diesel Fuel	100000	92900	88900	90900	91	50-150	4.4	50	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Total Petroleum Hydrocarbons by GC

Method TPH-GC/FID

Client Name: SP Environmental
Client ID: 11095
Lab ID: 056940-0002-SA
Matrix: SOIL
Authorized: 19 FEB 91

Sampled: 15 FEB 91
Prepared: 20 FEB 91

Received: 19 FEB 91
Analyzed: 06 MAR 91

Parameter	Result	Units	Reporting Limit
Diesel Fuel	ND	ug/kg	1000

ND = Not detected
NA = Not applicable

Reported By: Kris Rogers

Approved By: Tom MacClanahan

The cover letter is an integral part of this report.
Rev 230787



February 28, 1991
Lab ID: 056990

Patricia Curl
S. P. Environmental
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

Dear Ms. Curl:

Enclosed is the report for the two samples, one aqueous and one soil, for your Curoco Project, Number 05294, which were received at Enseco-Cal Lab on 21 February 1991.

The report consists of the following sections:

- I Sample Description
- II Analysis Request
- III Quality Control Report
- IV Analysis Results

These data were previously reported by facsimile on 25 February 1991.

If you have any questions, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert W. Weidenfeld".

Robert W. Weidenfeld
Program Administrator

gwm/ak

I Sample Description

See the attached Sample Description Information.

The samples were received under chain-of-custody.

II Analysis Request

The following analytical tests were requested.

<u>Lab ID</u>	<u>Analysis Description</u>
056990-0001, 2	PCBs Total Petroleum Hydrocarbons C.C.R. Metals

III Quality Control

- A. Project Specific QC. No project specific QC (i.e., spikes and/or duplicates) was requested.
- B. Method Blank Results. A method blank is a laboratory-generated sample which assesses the degree to which laboratory operations and procedures cause false-positive analytical results for your samples.

No target parameters were detected in the method blanks associated with your samples at the reporting limit levels noted in the attached Method Blank Report.

C. Laboratory Control Samples - The LCS Program

Duplicate Control Samples. A DCS is a well-characterized matrix (blank water, sand or celite) which is spiked with certain target parameters and analyzed at approximately 10% of the sample load in order to establish method-specific control limits. The DCS results associated with your samples are on the attached Duplicate Control Sample Report.

Single Control Samples. An SCS consists of a control matrix that is spiked with surrogate compounds appropriate to the method being used. In cases where no surrogate is available, (e.g. metals or conventional analyses) a single control sample identical to the DCS serves as the control sample. An SCS is prepared for each sample lot. Accuracy is calculated identically to the DCS. The SCS results associated with your samples are on the attached Single Control Sample Report.

Accuracy is measured by Percent Recovery as in:

$$\% \text{ recovery} = \frac{(\text{measured concentration})}{(\text{actual concentration})} \times 100$$

Precision is measured using duplicate tests by Relative Percent Difference (RPD) as in:

$$\text{RPD} = \frac{(\% \text{ recovery test 1} - \% \text{ recovery test 2})}{(\% \text{ recovery test 1} + \% \text{ recovery test 2})/2} \times 100$$

Control limits for accuracy (percent recovery) are based on the average, historical percent recovery +/-3 standard deviation units. Control limits for precision (relative percent difference) range from 0 (identical duplicate DCS results) to the average, historical relative percent difference + 3 standard deviation units. In cases where there is not enough historical data, EPA limits or advisory limits are set, with the approval of the Quality Assurance department.

IV Analysis Results

Test methods may include minor modifications of published EPA Methods such as reporting limits or parameter lists. Reporting limits are adjusted to reflect dilution of the sample, when appropriate. Solid and waste samples are reported on an "as received" basis; i.e., no correction is made for moisture content, unless the method requires or the client requests that such correction be made.

Results are on the attached data sheets.

SAMPLE DESCRIPTION INFORMATION
for
SP Environmental

Lab ID	Client ID	Matrix	Sampled Date	Time	Received Date
056990-0001-SA	# 1	AQUEOUS	21 FEB 91	09:30	21 FEB 91
056990-0002-SA	# 2	SOIL	21 FEB 91	10:00	21 FEB 91

QC LOT ASSIGNMENT REPORT
Semivolatile Organics by GC

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK)
056990-0001-SA	AQUEOUS	PCB-A	22 FEB 91-A	22 FEB 91-A
056990-0001-SA	AQUEOUS	TPH-D-A	22 FEB 91-A	22 FEB 91-A
056990-0002-SA	SOIL	PCB-S	12 FEB 91-A	22 FEB 91-A
056990-0002-SA	SOIL	TPH-D-S	22 FEB 91-A	22 FEB 91-A

METHOD BLANK REPORT
Semivolatile Organics by GC

Analyte	Result	Units	Reporting Limit
Test: 608-PCB-A			
Matrix: AQUEOUS			
QC Lot: 22 FEB 91-A QC Run: 22 FEB 91-A			
Aroclor 1016	ND	ug/L	0.065
Aroclor 1221	ND	ug/L	0.065
Aroclor 1232	ND	ug/L	0.065
Aroclor 1242	ND	ug/L	0.065
Aroclor 1248	ND	ug/L	0.065
Aroclor 1254	ND	ug/L	0.50
Aroclor 1260	ND	ug/L	0.50

Test: TPH-GC-D-A
Matrix: AQUEOUS
QC Lot: 22 FEB 91-A QC Run: 22 FEB 91-A

Kerosene	ND	mg/L	0.10
Stoddard Solvent	ND	mg/L	0.10
Aviation Fuel (JP4)	ND	mg/L	0.10
Diesel Fuel	ND	mg/L	0.10
Unknown hydrocarbon	ND	mg/L	0.10

Test: 8080-PCB-S
Matrix: SOIL
QC Lot: 12 FEB 91-A QC Run: 22 FEB 91-A

Aroclor 1016	ND	ug/kg	50
Aroclor 1221	ND	ug/kg	50
Aroclor 1232	ND	ug/kg	50
Aroclor 1242	ND	ug/kg	50
Aroclor 1248	ND	ug/kg	50
Aroclor 1254	ND	ug/kg	50
Aroclor 1260	ND	ug/kg	50

Test: TPH-GC-D-S
Matrix: SOIL
QC Lot: 22 FEB 91-A QC Run: 22 FEB 91-A

Kerosene	ND	mg/kg	10
Stoddard Solvent	ND	mg/kg	10
Aviation Fuel (JP4)	ND	mg/kg	10
Diesel Fuel	ND	mg/kg	10

METHOD BLANK REPORT
Semivolatile Organics by GC (cont.)

Analyte	Result	Units	Reporting Limit
Test: TPH-GC-D-S			
Matrix: SOIL			
QC Lot: 22 FEB 91-A QC Run: 22 FEB 91-A			
Unknown hydrocarbon	ND	mg/kg	10

DUPLICATE CONTROL SAMPLE REPORT
Semivolatile Organics by GC

Analyte	Concentration Spiked	Concentration Measured		AVG	Accuracy Average(%)		Precision (RPD)		
		DCS1	DCS2		DCS	Limits	DCS	Limit	
Category: PCB-A Matrix: AQUEOUS QC Lot: 22 FEB 91-A Concentration Units: ug/L									
Aroclor 1254	5.0	4.37	4.38	4.38	88	52-136	0.2	36	
Category: TPH-D-A Matrix: AQUEOUS QC Lot: 22 FEB 91-A Concentration Units: mg/L									
Diesel Fuel	5.0	6.42	5.93	6.18	124	50-130	7.9	40	
Category: PCB-S Matrix: SOIL QC Lot: 12 FEB 91-A Concentration Units: ug/kg									
Aroclor 1254	167	156	166	161	96	48-127	6.2	24	
Category: TPH-D-S Matrix: SOIL QC Lot: 22 FEB 91-A Concentration Units: ug/kg									
Diesel Fuel	100	117	114	116	116	52-128	2.6	35	

Calculations are performed before rounding to avoid round-off errors in calculated results.

SINGLE CONTROL SAMPLE REPORT
Semivolatile Organics by GC

Analyte	Concentration		Accuracy(%)	
	Spiked	Measured	SCS	Limits
Category: PCB-S				
Matrix: SOIL				
QC Lot: 12 FEB 91-A				
QC Run: 22 FEB 91-A				
Concentration Units: ug/kg				
Aroclor 1254	167	156	93	48-127

Calculations are performed before rounding to avoid round-off errors in calculated results.

QC LOT ASSIGNMENT REPORT
Metals Analysis and Preparation

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK)
056990-0001-SA	AQUEOUS	ICP-AT	22 FEB 91-B	22 FEB 91-B
056990-0002-SA	SOIL	ICP-S	22 FEB 91-N	22 FEB 91-N

METHOD BLANK REPORT
Metals Analysis and Preparation

Analyte	Result	Units	Reporting Limit
Test: ICP-CAMT-AT			
Matrix: AQUEOUS			
QC Lot: 22 FEB 91-B QC Run: 22 FEB 91-B			
Antimony	ND	mg/L	1.0
Arsenic	ND	mg/L	0.50
Barium	ND	mg/L	5.0
Beryllium	ND	mg/L	0.050
Cadmium	ND	mg/L	0.050
Chromium	ND	mg/L	0.50
Cobalt	ND	mg/L	5.0
Copper	ND	mg/L	2.0
Lead	ND	mg/L	0.50
Molybdenum	ND	mg/L	30.0
Nickel	ND	mg/L	2.0
Selenium	ND	mg/L	0.20
Silver	ND	mg/L	0.50
Thallium	ND	mg/L	2.0
Vanadium	ND	mg/L	2.0
Zinc	ND	mg/L	20.0

Test: ICP-CAMT-HI-S
Matrix: SOIL
QC Lot: 22 FEB 91-N QC Run: 22 FEB 91-N

Antimony	ND	mg/kg	15.0
Arsenic	ND	mg/kg	10.0
Barium	ND	mg/kg	100
Beryllium	ND	mg/kg	0.75
Cadmium	ND	mg/kg	1.0
Chromium	ND	mg/kg	5.0
Cobalt	ND	mg/kg	80.0
Copper	ND	mg/kg	25.0
Lead	ND	mg/kg	5.0
Molybdenum	ND	mg/kg	350
Nickel	ND	mg/kg	20.0
Silver	ND	mg/kg	5.0
Thallium	ND	mg/kg	50.0
Vanadium	ND	mg/kg	24.0
Zinc	ND	mg/kg	250

DUPLICATE CONTROL SAMPLE REPORT
Metals Analysis and Preparation

Analyte	Concentration			AVG	Accuracy		Precision	
	Spiked	DCS1	Measured DCS2		Average(%) DCS	Limits	(RPD) DCS	Limit
Category: ICP-AT								
Matrix: AQUEOUS								
QC Lot: 22 FEB 91-B								
Concentration Units: mg/L								
Aluminum	2.00	1.84	1.86	1.85	93	85-115	1.2	10
Antimony	0.50	0.431	0.424	0.428	86	85-115	1.6	10
Arsenic	0.5	0.473	0.464	0.469	94	85-115	2.1	10
Barium	2.0	1.91	1.92	1.91	96	85-115	0.7	10
Beryllium	0.050	0.0470	0.0475	0.0473	95	80-115	1.0	10
Boron	1.0	0.995	0.995	0.995	99	85-115	0.0	10
Cadmium	0.050	0.0503	0.0504	0.0504	101	81-118	0.3	10
Calcium	100	102	104	103	103	85-115	1.3	10
Chromium	0.20	0.183	0.182	0.182	91	85-115	0.6	10
Cobalt	0.50	0.458	0.464	0.461	92	85-115	1.3	10
Copper	0.25	0.243	0.241	0.242	97	85-115	1.1	10
Iron	1.0	0.953	0.955	0.954	95	85-115	0.2	10
Lead	0.50	0.468	0.467	0.468	94	85-115	0.1	10
Lithium	0.20	0.209	0.200	0.205	102	85-115	4.5	10
Magnesium	50	48.8	49.0	48.9	98	85-115	0.4	10
Manganese	0.50	0.460	0.464	0.462	92	85-115	1.0	10
Molybdenum	0.20	0.191	0.188	0.190	95	85-115	1.9	10
Nickel	0.50	0.454	0.465	0.460	92	83-115	2.6	10
Potassium	50	50.4	50.5	50.4	101	83-115	0.1	10
Selenium	2.0	1.99	2.00	1.99	100	85-115	0.8	10
Silver	0.050	0.0456	0.0462	0.0459	92	56-116	1.3	35
Sodium	100	99.1	99.1	99.1	99	85-115	0.0	10
Thallium	2.0	1.92	1.95	1.94	97	84-118	1.6	10
Tin	4.0	3.55	3.58	3.56	89	80-115	1.0	15
Titanium	0.20	0.149	0.150	0.150	75#	85-115	0.9	10
Vanadium	0.50	0.476	0.479	0.477	95	82-115	0.8	20
Zinc	0.50	0.464	0.465	0.464	93	80-115	0.3	20

Category: ICP-S
Matrix: SOIL
QC Lot: 22 FEB 91-N
Concentration Units: mg/kg

Aluminum	200	183	183	183	91	84-115	0.2	11
Antimony	50	51.4	51.6	51.5	103	81-115	0.3	10
Arsenic	50	51.6	50.5	51.1	102	82-115	2.1	10
Barium	200	189	191	190	95	85-115	0.9	10
Beryllium	5.0	4.66	4.72	4.69	94	70-110	1.4	10
Boron	100	99.2	103	101	101	85-115	3.9	10

= Recovery outside QC Limits

Calculations are performed before rounding to avoid round-off errors in calculated results.

DUPLICATE CONTROL SAMPLE REPORT
Metals Analysis and Preparation (cont.)

Analyte	Concentration		AVG	Accuracy Average(%)		Precision (RPD)	
	Spiked	Measured		DCS	Limits	DCS	Limit
	DCS1	DCS2					
Category:	ICP-S						
Matrix:	SOIL						
QC Lot:	22 FEB 91-N						
Concentration Units:	mg/Kg						
Cadmium	5.0	4.45	4.55	4.50	90	81-118	2.2 15
Calcium	10000	9520	9610	9560	96	85-115	0.9 10
Chromium	20	18.4	18.6	18.5	92	84-115	1.0 17
Cobalt	50	47.5	47.2	47.3	95	80-115	0.6 10
Copper	25	24.3	24.4	24.4	98	81-115	0.4 10
Iron	100	96.2	96.7	96.5	96	85-115	0.5 14
Lead	50	47.1	48.8	47.9	96	80-115	3.6 11
Lithium	20.0	18.7	18.7	18.7	93	85-115	0.3 10
Magnesium	5000	4970	4980	4980	100	85-115	0.2 10
Manganese	50.0	47.5	47.8	47.7	95	80-115	0.6 10
Molybdenum	20.0	18.2	18.4	18.3	92	85-115	1.4 10
Nickel	50.0	47.2	46.9	47.1	94	80-115	0.7 10
Potassium	5000	4790	4760	4780	96	82-115	0.6 10
Selenium	200.0	182	191	187	93	84-115	4.8 10
Silver	5.0	4.55	4.50	4.52	90	62-115	1.2 10
Sodium	10000	9620	9620	9620	96	85-115	0.0 10
Thallium	200	183	184	184	92	68-110	0.4 10
Tin	400	347	346	347	87	80-122	0.3 10
Titanium	20.0	12.8	13.0	12.9	65#	85-115	1.1 10
Vanadium	50.0	48.0	48.2	48.1	96	85-115	0.4 10
Zinc	50	49.0	48.9	48.9	98	82-115	0.1 10

= Recovery outside QC Limits

Calculations are performed before rounding to avoid round-off errors in calculated results.

PCBs

Method 608

Client Name: SP Environmental
Client ID: # 1
Lab ID: 056990-0001-SA
Matrix: AQUEOUS
Authorized: 21 FEB 91

Sampled: 21 FEB 91
Prepared: 22 FEB 91

Received: 21 FEB 91
Analyzed: 25 FEB 91

Parameter	Result	Units	Reporting Limit
Aroclor 1016	ND	ug/L	5.0
Aroclor 1221	ND	ug/L	5.0
Aroclor 1232	ND	ug/L	5.0
Aroclor 1242	ND	ug/L	5.0
Aroclor 1248	ND	ug/L	5.0
Aroclor 1254	ND	ug/L	5.0
Aroclor 1260	ND	ug/L	5.0

ND = Not detected
NA = Not applicable

Reported By: John Mitchell

Approved By: Tom MacClanahan

The cover letter is an integral part of this report.
Rev 230787

PCBs

Method 8080

Client Name: SP Environmental
Client ID: # 2
Lab ID: 056990-0002-SA
Matrix: SOIL
Authorized: 21 FEB 91

Sampled: 21 FEB 91
Prepared: 22 FEB 91

Received: 21 FEB 91
Analyzed: 25 FEB 91

Parameter	Result	Wet wt. Units	Reporting Limit	
Aroclor 1016	ND	ug/kg	50	
Aroclor 1221	ND	ug/kg	50	
Aroclor 1232	ND	ug/kg	50	
Aroclor 1242	ND	ug/kg	50	
Aroclor 1248	ND	ug/kg	50	
Aroclor 1254	ND	ug/kg	150	G
Aroclor 1260	ND	ug/kg	50	

Note G : Reporting Limit raised due to matrix interference.

ND = Not detected
NA = Not applicable

Reported By: John Mitchell

Approved By: Tom MacClanahan

The cover letter is an integral part of this report.
Rev 230787

Total Petroleum Hydrocarbons

Method 3510/GC/FID

Client Name: SP Environmental
Client ID: # 1
Lab ID: 056990-0001-SA
Matrix: AQUEOUS
Authorized: 21 FEB 91

Sampled: 21 FEB 91
Prepared: 22 FEB 91

Received: 21 FEB 91
Analyzed: 22 FEB 91

Parameter	Result	Units	Reporting Limit
Kerosene	ND	mg/L	0.10
Stoddard Solvent	ND	mg/L	0.10
Aviation Fuel (JP4)	ND	mg/L	0.10
Diesel Fuel	ND	mg/L	0.10
Unknown hydrocarbon	ND	mg/L	0.10

ND = Not detected
NA = Not applicable

Reported By: Kris Rogers

Approved By: Tom MacClanahan

The cover letter is an integral part of this report.

Rev 230787

Total Petroleum Hydrocarbons

Method GC/FID

Client Name: SP Environmental
 Client ID: # 2
 Lab ID: 056990-0002-SA
 Matrix: SOIL
 Authorized: 21 FEB 91

Sampled: 21 FEB 91
 Prepared: 22 FEB 91

Received: 21 FEB 91
 Analyzed: 23 FEB 91

Parameter	Result	Units	Reporting Limit	
Kerosene	ND	mg/kg	50	R
Stoddard Solvent	ND	mg/kg	50	
Aviation Fuel (JP4)	ND	mg/kg	50	
Diesel Fuel	ND	mg/kg	50	
Unknown hydrocarbon	230	mg/kg	10	1

Note R : Raised reporting limit(s) due to high analyte level(s).

Note 1 : This sample contains an unknown hydrocarbon pattern in the approximate range of C-7 to C-30. Quantitation was based on a Diesel reference.

ND = Not detected
 NA = Not applicable

Reported By: Kris Rogers

Approved By: Tom MacClanahan

The cover letter is an integral part of this report.

Rev 230787

C.C.R. METALS
California Title 22 (Title 26) Protocol
Water Sample

Client Name: SP Environmental
Client ID: # 1
Lab ID: 056990-0001-SA
Matrix: AQUEOUS
Authorized: 21 FEB 91

Sampled: 21 FEB 91
Prepared: See Below

Received: 21 FEB 91
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Antimony	ND	mg/L	1.0	200.7	22 FEB 91	22 FEB 91
Arsenic	ND	mg/L	0.50	200.7	22 FEB 91	22 FEB 91
Barium	ND	mg/L	5.0	200.7	22 FEB 91	22 FEB 91
Beryllium	ND	mg/L	0.050	200.7	22 FEB 91	22 FEB 91
Cadmium	ND	mg/L	0.050	200.7	22 FEB 91	22 FEB 91
Chromium	ND	mg/L	0.50	200.7	22 FEB 91	22 FEB 91
Cobalt	ND	mg/L	5.0	200.7	22 FEB 91	22 FEB 91
Copper	ND	mg/L	2.0	200.7	22 FEB 91	22 FEB 91
Lead	ND	mg/L	0.50	200.7	22 FEB 91	22 FEB 91
Molybdenum	ND	mg/L	30.0	200.7	22 FEB 91	22 FEB 91
Nickel	ND	mg/L	2.0	200.7	22 FEB 91	22 FEB 91
Selenium	ND	mg/L	0.20	200.7	22 FEB 91	22 FEB 91
Silver	ND	mg/L	0.50	200.7	22 FEB 91	22 FEB 91
Thallium	ND	mg/L	2.0	200.7	22 FEB 91	22 FEB 91
Vanadium	ND	mg/L	2.0	200.7	22 FEB 91	22 FEB 91
Zinc	ND	mg/L	20.0	200.7	22 FEB 91	22 FEB 91

ND = Not detected
NA = Not applicable

Reported By: Evin Mckinney

Approved By: Barry Votaw

The cover letter is an integral part of this report.
Rev 230787

C.C.R. METALS
California Title 22 (Title 26) Protocol
TTL (Total) Data Sheet

Amended

Client Name: SP Environmental
Client ID: # 2
Lab ID: 056990-0002-SA
Matrix: SOIL
Authorized: 21 FEB 91

Sampled: 21 FEB 91
Prepared: See Below

Received: 21 FEB 91
Analyzed: See Below

Parameter	Result	Wet wt. Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Antimony	ND	mg/kg	15.0	6010	22 FEB 91	22 FEB 91
Arsenic	47.0	mg/kg	10.0	6010	22 FEB 91	22 FEB 91
Barium	139	mg/kg	100	6010	22 FEB 91	22 FEB 91
Beryllium	ND	mg/kg	0.75	6010	22 FEB 91	22 FEB 91
Cadmium	ND	mg/kg	1.0	6010	22 FEB 91	22 FEB 91
Chromium	103	mg/kg	5.0	6010	22 FEB 91	22 FEB 91
Cobalt	ND	mg/kg	80.0	6010	22 FEB 91	22 FEB 91
Copper	61.6	mg/kg	25.0	6010	22 FEB 91	22 FEB 91
Lead	62.0	mg/kg	5.0	6010	22 FEB 91	22 FEB 91
Molybdenum	ND	mg/kg	350	6010	22 FEB 91	22 FEB 91
Nickel	147	mg/kg	20.0	6010	22 FEB 91	22 FEB 91
Selenium	ND	mg/kg	10.0	6010	22 FEB 91	22 FEB 91
Silver	ND	mg/kg	5.0	6010	22 FEB 91	22 FEB 91
Thallium	ND	mg/kg	50.0	6010	22 FEB 91	22 FEB 91
Vanadium	38.7	mg/kg	24.0	6010	22 FEB 91	22 FEB 91
Zinc	676	mg/kg	250	6010	22 FEB 91	22 FEB 91

ND = Not detected
NA = Not applicable

Reported By: Evin McKinney

Approved By: Barry Votaw

The cover letter is an integral part of this report.
Rev 230787



SP - EvS

CHAIN-OF-CUSTODY RECORD

No. 10195

SP - Environmental Systems, Inc. • 9719 Lincoln Village Drive, Ste. 310 • Sacramento, CA 95827 • Phone 916-369-8971 • FAX 916-369-8370

PROJECT NAME CUROCO		PROJECT LOCATION ALBANY, CA		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)
PROJ. NO. 05294	PROJECT CONTACT PATRICIA CURL	PROJECT TELEPHONE NO. 369-8971			
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR			

*TH-805M extractable
PEB-8050 (PEB 90%)
CAM NALS (high)*

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE LOCATION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED	REMARKS
1	1	2/21/91	0930		X	WATER FROM TANK	4	X X X	Rec'd in good COND.
2	2	2/21/91	1000		X	SOIL	1	X X X	
3									
4									
5									
6									
7									
8									
9									
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-2	Patricia Curl	[Signature]	2/21/91	1400	48 hr turn around
2						
3						
4						

SAMPLER'S NAME: **CURL**
 SAMPLER'S SIGNATURE: *Patricia Curl*

APPENDIX B
MANIFESTS

Please print or type. Form designed for use on elite (12-pitch typewriter).

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-952-7550

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. 0AD00091320600001		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
		3. Generator's Name and Mailing Address SOUTHERN PACIFIC TRANS Co. ONE MARKET PLAZA SAN FRANCISCO, CA 94105 916 369 8971		6. US EPA ID Number 0AD0009405392		C. State Transporter's ID 1141030009030		A. State Manifest Document Number 90520514	
4. Generator's Phone		5. Transporter 1 Company Name ERICKSON INC		7. Transporter 2 Company Name		D. Transporter's Phone 919 415 235 1393		B. State Generator's ID	
9. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT PO BOX 471- OLD SKYLINE RD KETTLEMAN CITY, CA 93239		10. US EPA ID Number 0AD003980718		11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) a. SOIL WITH OILY SLUDGE & CORRUGATED PIPE. NON-HAZARDOUS		12. Containers No. Type 001 DM		13. Total Quantity 12 Y	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		14. Unit Wt/Vol		15. State Waste No. 611		E. State Transporter's ID		G. State Facility's ID 003905	
12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		15. State Waste No.		H. Facility's Phone 509-222-2964	
15. State Waste No.		16. EPA/Other		17. State		18. EPA/Other		19. State	
16. EPA/Other		17. State		18. EPA/Other		19. State		20. EPA/Other	
17. State		18. EPA/Other		19. State		20. EPA/Other		21. State	
18. EPA/Other		19. State		20. EPA/Other		21. State		22. EPA/Other	
19. State		20. EPA/Other		21. State		22. EPA/Other		23. State	
20. EPA/Other		21. State		22. EPA/Other		23. State		24. EPA/Other	
21. State		22. EPA/Other		23. State		24. EPA/Other		25. State	
22. EPA/Other		23. State		24. EPA/Other		25. State		26. EPA/Other	
23. State		24. EPA/Other		25. State		26. EPA/Other		27. State	
24. EPA/Other		25. State		26. EPA/Other		27. State		28. EPA/Other	
25. State		26. EPA/Other		27. State		28. EPA/Other		29. State	
26. EPA/Other		27. State		28. EPA/Other		29. State		30. EPA/Other	
27. State		28. EPA/Other		29. State		30. EPA/Other		31. State	
28. EPA/Other		29. State		30. EPA/Other		31. State		32. EPA/Other	
29. State		30. EPA/Other		31. State		32. EPA/Other		33. State	
30. EPA/Other		31. State		32. EPA/Other		33. State		34. EPA/Other	
31. State		32. EPA/Other		33. State		34. EPA/Other		35. State	
32. EPA/Other		33. State		34. EPA/Other		35. State		36. EPA/Other	
33. State		34. EPA/Other		35. State		36. EPA/Other		37. State	
34. EPA/Other		35. State		36. EPA/Other		37. State		38. EPA/Other	
35. State		36. EPA/Other		37. State		38. EPA/Other		39. State	
36. EPA/Other		37. State		38. EPA/Other		39. State		40. EPA/Other	
37. State		38. EPA/Other		39. State		40. EPA/Other		41. State	
38. EPA/Other		39. State		40. EPA/Other		41. State		42. EPA/Other	
39. State		40. EPA/Other		41. State		42. EPA/Other		43. State	
40. EPA/Other		41. State		42. EPA/Other		43. State		44. EPA/Other	
41. State		42. EPA/Other		43. State		44. EPA/Other		45. State	
42. EPA/Other		43. State		44. EPA/Other		45. State		46. EPA/Other	
43. State		44. EPA/Other		45. State		46. EPA/Other		47. State	
44. EPA/Other		45. State		46. EPA/Other		47. State		48. EPA/Other	
45. State		46. EPA/Other		47. State		48. EPA/Other		49. State	
46. EPA/Other		47. State		48. EPA/Other		49. State		50. EPA/Other	
47. State		48. EPA/Other		49. State		50. EPA/Other		51. State	
48. EPA/Other		49. State		50. EPA/Other		51. State		52. EPA/Other	
49. State		50. EPA/Other		51. State		52. EPA/Other		53. State	
50. EPA/Other		51. State		52. EPA/Other		53. State		54. EPA/Other	
51. State		52. EPA/Other		53. State		54. EPA/Other		55. State	
52. EPA/Other		53. State		54. EPA/Other		55. State		56. EPA/Other	
53. State		54. EPA/Other		55. State		56. EPA/Other		57. State	
54. EPA/Other		55. State		56. EPA/Other		57. State		58. EPA/Other	
55. State		56. EPA/Other		57. State		58. EPA/Other		59. State	
56. EPA/Other		57. State		58. EPA/Other		59. State		60. EPA/Other	
57. State		58. EPA/Other		59. State		60. EPA/Other		61. State	
58. EPA/Other		59. State		60. EPA/Other		61. State		62. EPA/Other	
59. State		60. EPA/Other		61. State		62. EPA/Other		63. State	
60. EPA/Other		61. State		62. EPA/Other		63. State		64. EPA/Other	
61. State		62. EPA/Other		63. State		64. EPA/Other		65. State	
62. EPA/Other		63. State		64. EPA/Other		65. State		66. EPA/Other	
63. State		64. EPA/Other		65. State		66. EPA/Other		67. State	
64. EPA/Other		65. State		66. EPA/Other		67. State		68. EPA/Other	
65. State		66. EPA/Other		67. State		68. EPA/Other		69. State	
66. EPA/Other		67. State		68. EPA/Other		69. State		70. EPA/Other	
67. State		68. EPA/Other		69. State		70. EPA/Other		71. State	
68. EPA/Other		69. State		70. EPA/Other		71. State		72. EPA/Other	
69. State		70. EPA/Other		71. State		72. EPA/Other		73. State	
70. EPA/Other		71. State		72. EPA/Other		73. State		74. EPA/Other	
71. State		72. EPA/Other		73. State		74. EPA/Other		75. State	
72. EPA/Other		73. State		74. EPA/Other		75. State		76. EPA/Other	
73. State		74. EPA/Other		75. State		76. EPA/Other		77. State	
74. EPA/Other		75. State		76. EPA/Other		77. State		78. EPA/Other	
75. State		76. EPA/Other		77. State		78. EPA/Other		79. State	
76. EPA/Other		77. State		78. EPA/Other		79. State		80. EPA/Other	
77. State		78. EPA/Other		79. State		80. EPA/Other		81. State	
78. EPA/Other		79. State		80. EPA/Other		81. State		82. EPA/Other	
79. State		80. EPA/Other		81. State		82. EPA/Other		83. State	
80. EPA/Other		81. State		82. EPA/Other		83. State		84. EPA/Other	
81. State		82. EPA/Other		83. State		84. EPA/Other		85. State	
82. EPA/Other		83. State		84. EPA/Other		85. State		86. EPA/Other	
83. State		84. EPA/Other		85. State		86. EPA/Other		87. State	
84. EPA/Other		85. State		86. EPA/Other		87. State		88. EPA/Other	
85. State		86. EPA/Other		87. State		88. EPA/Other		89. State	
86. EPA/Other		87. State		88. EPA/Other		89. State		90. EPA/Other	
87. State		88. EPA/Other		89. State		90. EPA/Other		91. State	
88. EPA/Other		89. State		90. EPA/Other		91. State		92. EPA/Other	
89. State		90. EPA/Other		91. State		92. EPA/Other		93. State	
90. EPA/Other		91. State		92. EPA/Other		93. State		94. EPA/Other	
91. State		92. EPA/Other		93. State		94. EPA/Other		95. State	
92. EPA/Other		93. State		94. EPA/Other		95. State		96. EPA/Other	
93. State		94. EPA/Other		95. State		96. EPA/Other		97. State	
94. EPA/Other		95. State		96. EPA/Other		97. State		98. EPA/Other	
95. State		96. EPA/Other		97. State		98. EPA/Other		99. State	
96. EPA/Other		97. State		98. EPA/Other		99. State		100. EPA/Other	
97. State		98. EPA/Other		99. State		100. EPA/Other		101. State	
98. EPA/Other		99. State		100. EPA/Other		101. State		102. EPA/Other	
99. State		100. EPA/Other		101. State		102. EPA/Other		103. State	
100. EPA/Other		101. State		102. EPA/Other		103. State		104. EPA/Other	
101. State		102. EPA/Other		103. State		104. EPA/Other		105. State	
102. EPA/Other		103. State		104. EPA/Other		105. State		106. EPA/Other	
103. State		104. EPA/Other		105. State		106. EPA/Other		107. State	
104. EPA/Other		105. State		106. EPA/Other		107. State		108. EPA/Other	
105. State		106. EPA/Other		107. State		108. EPA/Other		109. State	
106. EPA/Other		107. State		108. EPA/Other		109. State		110. EPA/Other	
107. State		108. EPA/Other		109. State		110. EPA/Other		111. State	
108. EPA/Other		109. State		110. EPA/Other		111. State		112. EPA/Other	
109. State		110. EPA/Other		111. State		112. EPA/Other		113. State	
110. EPA/Other		111. State		112. EPA/Other		113. State		114. EPA/Other	
111. State		112. EPA/Other		113. State		114. EPA/Other		115. State	
112. EPA/Other		113. State		114. EPA/Other		115. State		116. EPA/Other	
113. State		114. EPA/Other		115. State		116. EPA/Other		117. State	
114. EPA/Other		115. State		116. EPA/Other		117. State		118. EPA/Other	
115. State		116. EPA/Other		117. State		118. EPA/Other		119. State	
116. EPA/Other		117. State		118. EPA/Other		119. State		120. EPA/Other	
117. State		118. EPA/Other		119. State		120. EPA/Other		121. State	
118. EPA/Other		119. State		120. EPA/Other		121. State		122. EPA/Other	
119. State		120. EPA/Other		121. State		122. EPA/Other		123. State	
120. EPA/Other		121. State		122. EPA/Other		123. State		124. EPA/Other	
121. State		122. EPA/Other		123. State		124. EPA/Other		125. State	
122. EPA/Other		123. State		124. EPA/Other		125. State		126. EPA/Other	
123. State		124. EPA/Other		125. State		126. EPA/Other		127. State	
124. EPA/Other		125. State		126. EPA/Other		127. State		128. EPA/Other	
125. State		126. EPA/Other		127. State		128. EPA/Other		129. State	
126. EPA/Other		127. State		128. EPA/Other		129. State		130. EPA/Other	
127. State		128. EPA/Other		129. State		130. EPA/Other		131. State	
128. EPA/Other		129. State		130. EPA/Other		131. State		132. EPA/Other	
129. State		130. EPA/Other		131. State		132. EPA/Other		133. State	
130. EPA/Other		131. State		132. EPA/Other		133. State		134. EPA/Other	
131. State		132. EPA/Other		133. State		134. EPA/Other		135. State	
132. EPA/Other		133. State		134. EPA/Other		135. State		136. EPA/Other	
133. State		134. EPA/Other		135. State		136. EPA/Other		137. State	
134. EPA/Other		135. State		136. EPA/Other		137. State		138. EPA/Other	
135. State		136. EPA/Other		137. State		138. EPA/Other		139. State	
136. EPA/Other		137. State		138. EPA/Other		139. State		140. EPA/Other	
137. State		138. EPA/Other		139. State		140. EPA/Other		141. State	
138. EPA/Other		139. State		140. EPA/Other		141. State		142. EPA/Other	
139. State		140. EPA/Other		141. State		142. EPA/Other		143. State	
140. EPA/Other		141. State		142. EPA/Other		143. State		144. EPA/Other	
141. State		142. EPA/Other		143. State		144. EPA/Other		145. State	
142. EPA/Other		143. State		144. EPA/Other		145. State		146. EPA/Other	
143. State		144. EPA/Other		145. State		146. EPA/Other		147. State	
144. EPA/Other		145. State		146. EPA/Other		147. State		148. EPA/Other	
145. State		146. EPA/Other		147. State		148. EPA/Other		149. State	
146. EPA/Other		147. State		148. EPA/Other		149. State		150. EPA/Other	
147. State		148. EPA/Other		149. State		150. EPA/Other		151. State	
148. EPA/Other		149. State		150. EPA/Other		151. State		152. EPA/Other	
149. State		150. EPA/Other		151. State		152. EPA/Other		153. State	
150. EPA/Other		151. State		152. EPA/Other		153. State		154. EPA/Other	
151. State		152. EPA/Other		153. State		154. EPA/Other		155. State	
152. EPA/Other		153. State		154. EPA/Other		155. State		156. EPA/Other	
153. State		154. EPA/Other		155. State		156. EPA/Other		157. State	
154. EPA/Other		155. State		156. EPA/Other		157. State		158. EPA/Other	
155. State		156. EPA/Other		157. State		158. EPA/Other		159. State	

Please print or type. Form designed for use on elite (12-pitch typewriter).

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address SOUTHERN PACIFIC TRANS CO ONE MARKET PLAZA SAN FRANCISCO, CA 94105 4. Generator's Phone 916 389-8971		CA 000691320600003		A. State Manifest Document Number 90520513		B. State Generator's ID HYH436009030	
5. Transporter 1 Company Name ERICKSON INC		6. US EPA ID Number CA 1101291466392		C. State Transporter's ID 106242		D. Transporter's Phone 415 28-1383	
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone	
9. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC PO BOX 471 - OLD SKYLINE RD KETTLEMAN CITY, CA 93239 93239 CA 000319867118		10. US EPA ID Number		G. State Facility's ID 003905		H. Facility's Phone 800-222-2964	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)			12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	
a. NON HAZARDOUS SOIL WITH OIL SLUDGE + CORRUGATED PIPE			001 CM	1112	Y	State 611 EPA/Other	
b.						State EPA/Other	
c.						State EPA/Other	
d.						State EPA/Other	
J. Additional Descriptions for Materials Listed Above CURECO PROPERTY - 536 CLEVELAND ST SPENS # 05294 - ALBANY, CA CWM PROFILE K-23771			K. Handling Codes for Wastes Listed Above a. b. c. d.				
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name Mark S. Dickum		Signature <i>Mark S. Dickum</i>		Month Day Year 030791			
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name K. Badfield		Signature <i>K. Badfield</i>		Month Day Year 030791			
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year			
19. Discrepancy Indication Space							
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.							
Printed/Typed Name		Signature		Month Day Year			

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8902. WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR

TRANSPORTER

FACILITY

3032

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA120016913206101009	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address SOUTHERN PACIFIC TRANSPORTATION COMPANY ONE MARKET PLAZA SAN FRANCISCO, CA 94105				A. State Manifest Document Number 90520515		
4. Generator's Phone 916 269-5971				B. State Generator's ID H1V1H4716101910701		
5. Transporter 1 Company Name ERICKSON, INC		6. US EPA ID Number 10A1200194616392		C. State Transporter's ID 07106258		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 415-275-1293		
9. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC PO BOX 471 - OLD SKYLINE RD KATHLMAN CITY, CA 93239		10. US EPA ID Number 10A12001398167118		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID 010797059101000046117		
				H. Facility's Phone 800-222-2964		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	1. Waste No.	
a. SOIL WITH OILY SLUDGE AND CORRUGATED PIPE - NON-HAZARDOUS		001	12	Y	State 611	
b.					EPA/Other	
c.					State	
d.					EPA/Other	
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above		
				a. 03		
				b.		
				c.		
				d.		
15. Special Handling Instructions and Additional Information Curoco Property - 536 Cleveland St, ALBANY, CA SPEIS # 05294 CWM K-23771 PROFILE						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name MARK S. DICKUM		Signature <i>[Signature]</i>		Month Day Year 030791		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name Robee A. DART		Signature <i>[Signature]</i>		Month Day Year 031091		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year		
19. Discrepancy Indication Space						
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.						
Printed/Typed Name ALAN MANDY		Signature <i>[Signature]</i>		Month Day Year 1030791		

90520515
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802. WITHIN CALIFORNIA CALL 1-800-852-7650

Do Not Write Below This Line

289904-16