R9300 3
H

REMEDIATION OF OIL CONTAMINATED SOIL AT THE FORMER CONDENSATE COLLECTOR LOCATION 1588 DOOLITTLE DRIVE SAN LEANDRO, CALIFORNIA

6/24/93

PREPARED FOR:

AIRCO DISTRUBUTOR GASES
1588 DOOLITTLE DRIVE
SAN LEANDRO, CALIFORNIA

PREPARED BY:

REMEDIATION SERVICES, INC.
1181 QUARRY LANE, BLDG. 350
PLEASANTON, CALIFORNIA

REMEDIATION SERVICES, INC.

REMEDIATION
SERVICES, INC.

ENVIRONMENTAL SERVICES

1181 Quarry Lane
Bldg. 350
Pleasanton, CA 94566
Tel: 510/462-4002
Fax: 510/462-3025

1665 "E" Street
Suite 105
Fresno, CA 93706
Tel: 209/485-2429
Fax: 209/268-7041

June 24, 1993
Job No. R93003

Airco Distributor Gases
1588 Doolittle Drive
San Leandro, California 94577

Attention: Mr. Mark Schappel

Subject: Remediation of Oil Contaminated Soil at the Former Condensate Collector Location
1588 Doolittle Drive, San Leandro, California

Gentlemen:

Remediation Services, Inc. (RS) submits this progress report regarding remediation of oil contaminated soil at the subject location in San Leandro, California for Airco's records. The initial scope of work for this project included:

- Excavation and stockpiling of contaminated soil.
- Sampling and analysis to assess removal of oil contaminated soil.
- Backfill and compaction of the excavation.
- Characterization and disposal of excavated materials.
- Preparation of an Engineer's Report documenting remediation.

On June 14, 1993, as authorized by Airco, the scope of work was expanded to include volatile analyses for ten of the soil samples taken from the excavation.

Background

Airco recently decommissioned an in-ground condensate collector located behind the acetylene manufacturing building. The collector was used to contain condensate from gas compressing operations. The condensate was suspected to contain compressor oil.

On February 4, 1993, RS contacted Mr. Robert Weston of the Alameda County Department of Environmental Health regarding permitting requirements for removal of the collector. Mr. Weston indicated that no permits were required and instructed RS to proceed with the project on a self-directed basis.

RS removed the collector for Airco on February 8, 1993. The collector consisted of a metal cylinder approximately one foot in diameter and four feet long. It appeared to have a perforated bottom. The cylinder was oriented vertically and extended to a depth of three to three and one-half feet below ground surface.

Soil surrounding the collector was observed to be dark and oily smelling. A backhoe was used to obtain two soil samples, one from a depth of approximately four feet below ground surface and the other from approximately eight feet below ground surface. Laboratory analysis of the samples indicated oil and grease concentrations of 720 ppm in the upper sample. Oil and grease was not detected in the lower sample. Laboratory data sheets and chain-of-custody/request-for-analysis documents for the two samples are presented in Appendix A.

Based on findings of soil contamination, RS discussed both assessment and remediation options with Airco. Airco opted to forego further assessment and to proceed with excavation of the oil contaminated soil.

Site Description and Subsurface Conditions

Buildings associated with Airco's acetylene manufacturing operations are located to the west and south of the former condensate collector as shown on Figure 1. Immediately to the southeast is a concrete sump used to contain calcium hydroxide solutions which are a byproduct of the acetylene manufacturing process. An asphalt paved road is located to the north. The area where the condensate collector was formerly located is surfaced with concrete.

Groundwater was not encountered during excavation of oil contaminated soils at the collector site. Based on subsurface data collected in March 1990 during RS's investigation and closure of the west lime impoundment, it is anticipated that the depth to groundwater would be approximately 10 to 15 feet below ground surface.

Site stratigraphy at the former location of the condensate collector includes asphalt pavement (3 inches) or concrete (6-12 inches) underlain by inconsistent thin layers of baserock, lime and clay to a depth of approximately 2 feet below ground surface. A layer of stiff, black clay is present from approximately 2 to 5 feet below ground surface. From 5 feet to 8 feet, which represents the maximum depth of excavation, greyish-green clay soils were observed.

Summary of Project Work

Excavation of oil contaminated soil from the former collector location commenced on June 1, 1993 and was completed on June 3, 1993. Initial work involved breaking and removing concrete and asphalt surfacing materials covering the area to be excavated. Following that, oil contaminated soil was excavated and stockpiled at an adjacent paved storage area. Contaminated materials were stockpiled on and covered with 6-mil plastic sheeting.

The presence of black clayey soils at the site made it difficult to [redacted] the basis of visible staining. The presence of an unusual odor in the soil, which was attributed to reported overflows from the adjacent concrete sump, made it difficult to discern contaminated soil on the basis of smell. Accordingly, excavation was conducted in a phased approach in which soil samples were collected from the excavation and submitted for analysis at the end of each day in order to assess remaining contamination and the need for additional excavation work. Figures 1, 2 and 3 illustrate the progression of excavation work and show the locations of representative soil samples taken to assess contaminated soil removal. Soil sample analytical results for oil and grease are summarized in Table 1. Supporting documents (laboratory data sheets, chain-of-custody/request-for-analysis forms) are presented in Appendix B.

Subsequent to removing oil contaminated soil from the former condensate collector location, the excavation was backfilled with a combination of surplus baserock from a recent impoundment closure and imported Class 2 baserock. Compaction of the backfill materials was monitored by Robert Y. Chew Geotechnical. A copy of the compaction report is presented in Appendix C.

Approximately 25 cubic yards of asphalt and concrete and 80 cubic yards of contaminated soil were excavated during remediation work. In order to characterize these materials for disposal, a 5-point composite sample was taken and submitted for Oil & Grease, PCB, CAM metals, volatile organics and RCI analyses. Analytical results are indicated on the laboratory data sheets presented in Appendix D. Chain-of-custody and request-for-analysis documents are also presented in Appendix D.

Analytical results for the stockpile characterization sample indicate the presence of acetone, methyl ethyl ketone (MEK) and tetrachloroethene in the stockpiled soil. On the basis of this information, Airco authorized volatile organic analyses for soil samples previously taken from the excavation to assess removal of oil contaminated soil. The analytical results are summarized in Table 1 and laboratory data sheets are presented in Appendix B.

Conclusions and Recommendations

Analytical data for soil samples taken from the excavation indicate that oil contaminated soil has been removed from the former condensate collector location. However, during subsequent volatile organic analyses of those same samples, acetone, MEK, benzene and tetrachloroethene were determined to be present in the soil. Based on this information, we recommend that a copy of this report be submitted to Mr. Robert Weston of the Alameda County Department of Environmental Health so that RS may discuss with Mr. Weston requirements for additional investigation and remediation at the site, if any.

Regarding disposal of the excavated contaminated materials presently stockpiled on-site, BFI in Livermore has refused to accept the material on the basis of its acetone and mercury content. Zanker Recovery Systems in San Jose is also unable to accept the material. Forward, Inc. in Stockton has accepted the material. Accordingly, it is recommended that the material be disposed at the Foreward Landfill in Stockton. The manifests should be retained along with this report in Airco's property records.

* * * *

We trust the information presented in this report satisfies your present needs. Please call if you have questions.

Sincerely,

REMEDIATION SERVICES, INC.

John W. Schweizer, P.E.
Manager

JWS/rdf:rpj

Attachments: Appendices A, B, C and D

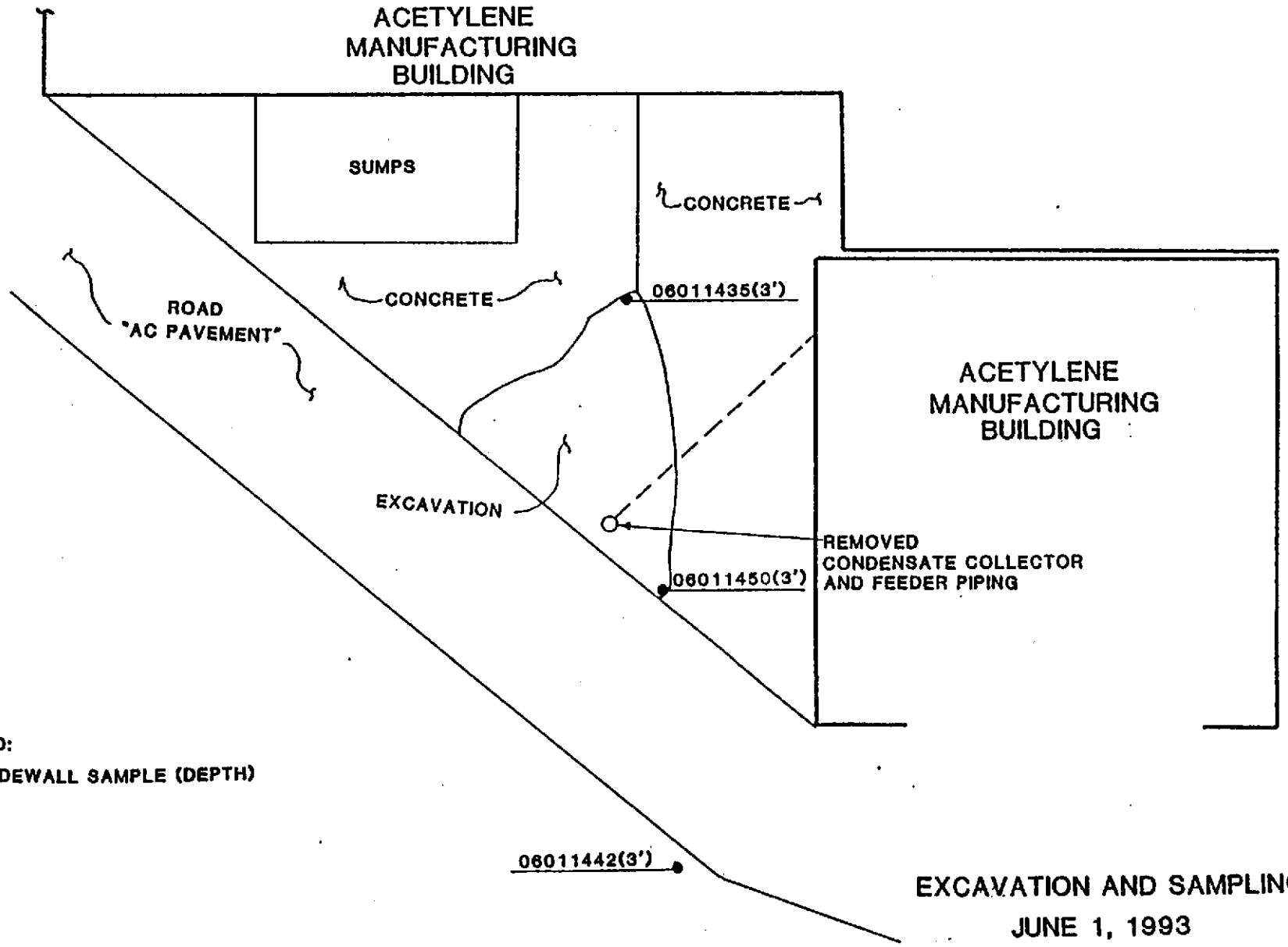
TABLE 1

Soil Sample Analytical Data
(Results in mg/kg)

Sample No.	Sample Location	Sample Depth (Feet)	Oil & Grease	Acetone	MEK	Tetrachloroethene	Benzene
06011435	Figure 1	3	ND	1	0.027	ND	ND
06011450	Figure 1	3	ND	35	0.72	ND	ND
06011442	Figure 1	3	ND	NA	NA	NA	ND
06021148	Figure 2	5	ND	39	0.065	ND	ND
06021152	Figure 2	6	1800	NA	NA	NA	ND
06021158	Figure 2	3.67	ND	29	1.1	ND	ND
06021201	Figure 2	4	190	NA	NA	NA	ND
06021208	Figure 2	4.5	ND	0.85	0.054	ND	ND
06021216	Figure 2	5	ND	4	0.051	ND	ND
06021220	Figure 2	6	ND	0.27	0.015	ND	ND
06031158	Figure 3	8.25	ND	0.37	0.018	ND	0.028
*06031204-1	Figure 3	4.5	ND	0.44	0.036	0.0097	ND
*06031204-2	Figure 3	4.5	ND	79	0.25	0.083	0.0075
*06031215-1	Figure 3	5.5	ND	NA	NA	NA	NA
*06031215-2	Figure 3	5.5	ND	NA	NA	NA	NA

* Samples 06031204-1 and 06031204-2 composited for Oil & Grease analyses. Samples 06031215-1 and 06031215-2 composited for Oil & Grease analyses.

ND None Detected
NA Not Analyzed



EXCAVATION AND SAMPLING

JUNE 1, 1993

DATE	BY	DATE	REVISION
DRAWN	EDU	6-4-93	
CHECKED	RDF	6-10-93	
APPROVED	RDF		

REMEDIATION SERVICES, INC.

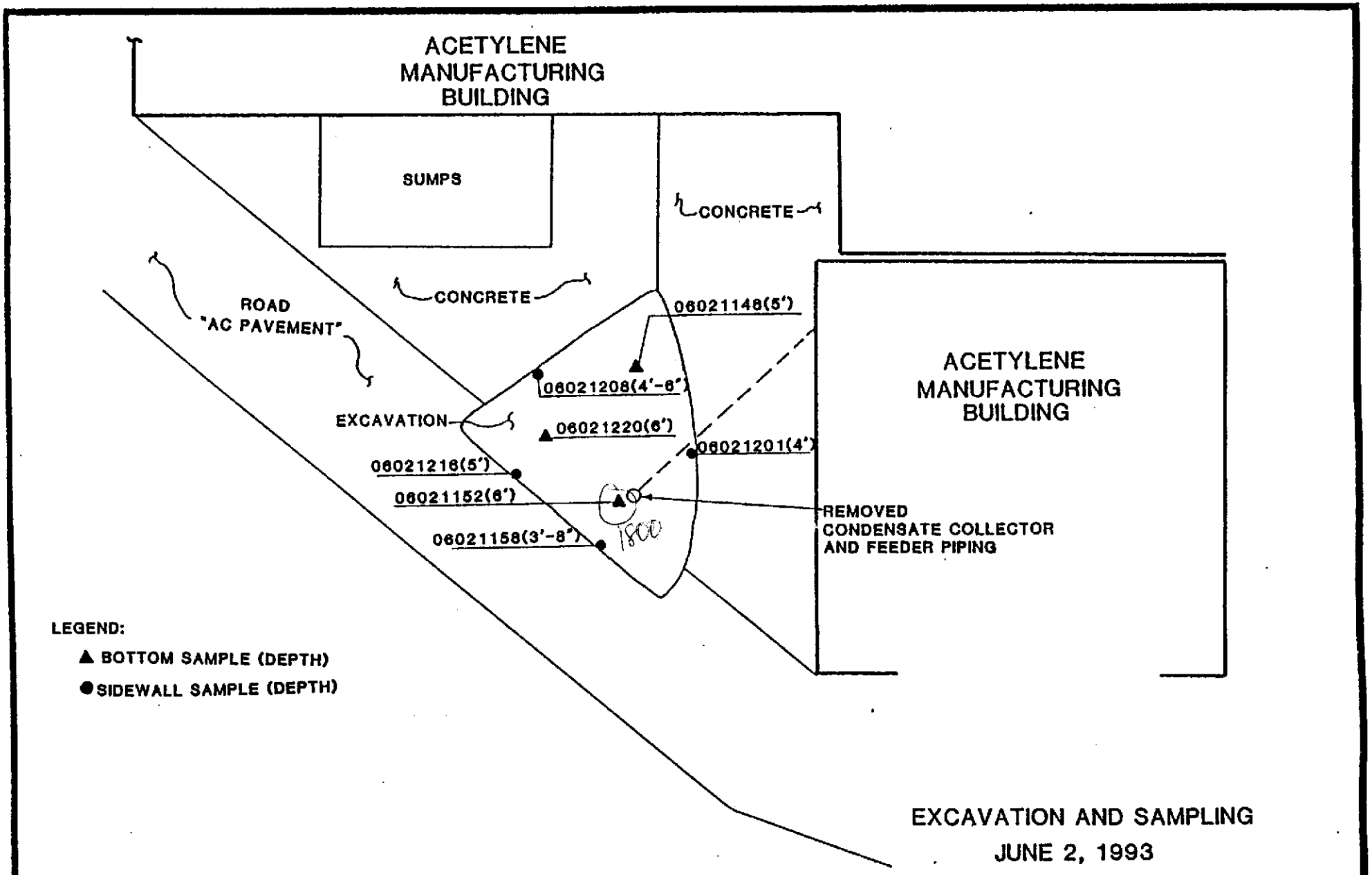
AIRCO DISTRIBUTOR GASES

1588 DOOLITTLE DRIVE SAN LEANDRO, CA

JOB NUMBER R93003

SCALE: 1"=10'

FIGURE 1



EXCAVATION AND SAMPLING

JUNE 2, 1993

DATE	BY	DATE	REVISION
DRAWN	EDU	6-4-93	
CHECKED	RDF	6-10-93	
APPROVED	RDF		

REMEDIATION SERVICES, INC.

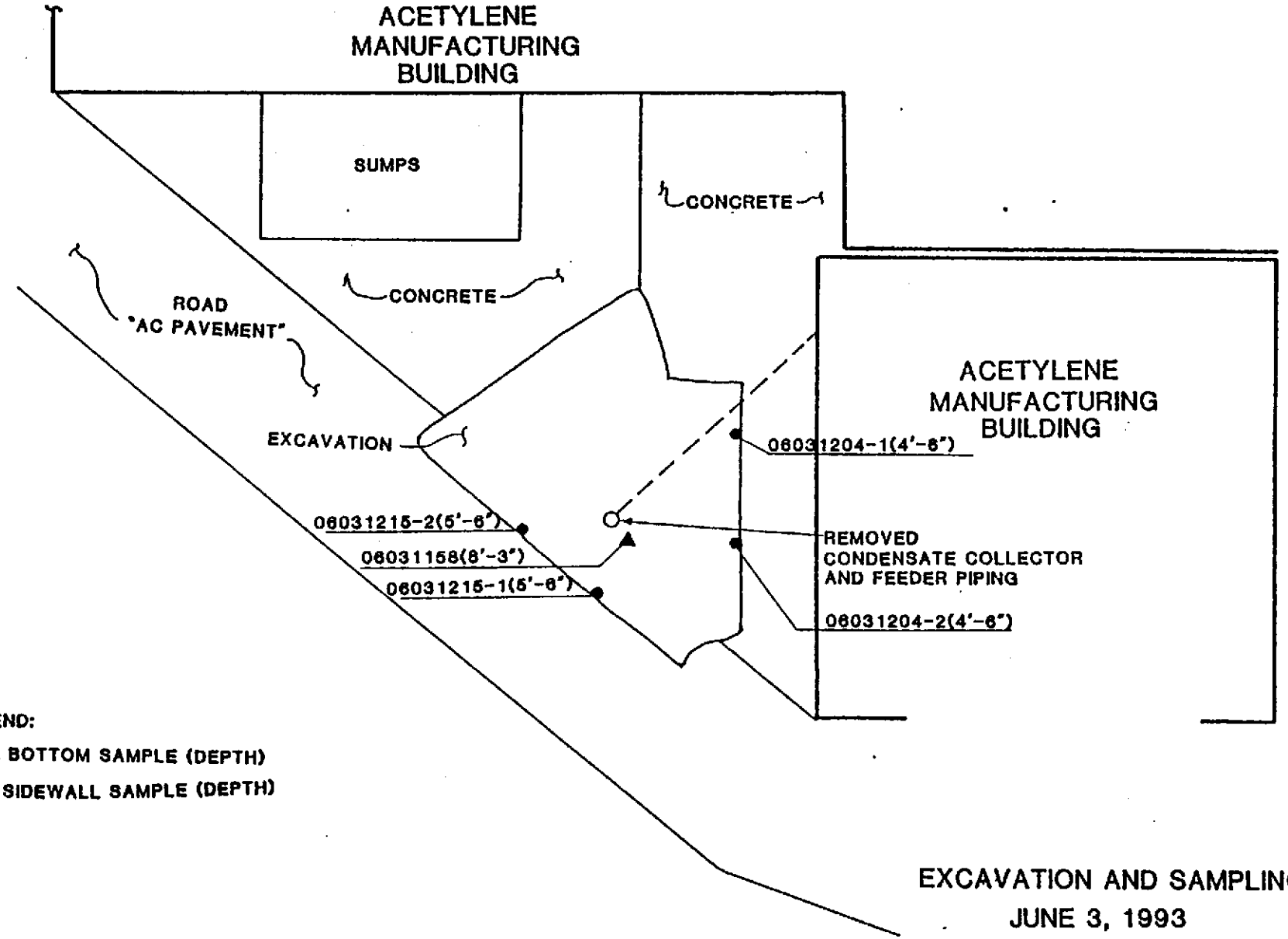
AIRCO DISTRIBUTOR GASES

1588 DOOLITTLE DRIVE
SAN LEANDRO, CA

JOB NUMBER R93003

SCALE: 1"=10'

FIGURE 2



EXCAVATION AND SAMPLING
JUNE 3, 1993

DATE	BY	DATE	REVISION
DRAWN	EDU	6-4-93	
CHECKED	RDF	6-10-93	
APPROVED	RDF		

REMEDIATION SERVICES, INC.

AIRCO DISTRIBUTOR GASES
1588 DOOLITTLE DRIVE
SAN LEANDRO, CA

JOB NUMBER R93003
SCALE: 1"=10'
FIGURE 3

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 16, 1993 ChromaLab File No.: 0293085

REMEDIATION SERVICES, INC.

Attn: R. D. Freitag

RE: Two soil samples for Oil & Grease analysis

Project Name: ARCO
Project Number: R93003 / Control No. C020843C
Date Sampled: Feb. 8, 1993 Date Submitted: Feb. 8, 1993
Date Analyzed: Feb. 12, 1993

RESULTS:

Sample I.D.	Oil & Grease (mg/Kg)
02081100	710
02081122	N.D.
BLANK	N.D.
DETECTION LIMIT	50
METHOD OF ANALYSIS	STD METHOD 5520 E & F

ChromaLab, Inc.

Carolyn M. House
Analyst

Eric Tam
Laboratory Director

cc

2239 Omega Road,#1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

R93003'K

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

February 12, 1993

ChromaLab File # 0293085

REMEDIATION SERVICES, INC.

Attn: R. D. Freitag

Project Name: ARCO
Control No. C020843C
Date Sampled: Feb. 8, 1993
Date Submitted: Feb. 8, 1993
Date of Analysis: Feb. 10, 1993
Sample I.D.: 02081100

Project No: R93003

Method of Analysis: EPA 8010
Matrix: Soil
Reporting Det. Limit: 5.0 µg/Kg
Dilution Factor: None

COMPOUND NAME	µg/Kg	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	117% 108%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TRANS)	N.D.	---
1,2-DICHLOROETHENE (CIS)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	95% 97%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	12	92% 88%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	93% 97%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

ChromaLab, Inc.

Mary Cappelli
Analytical Chemist

Eric Tam
Laboratory Director

cc

2239 Omega Road,#1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

REMEDIATION SERVICES, INC.

CHROMALAB FILE # 293085
ORDER # 10394

CHAIN-OF-CUSTODY RECORD

No. R020893A
C/C Control No. C020893C

PROJECT NAME/NUMBER ARCO / R93003 LAB DESTINATION CHROMALAB

SAMPLE TEAM MEMBERS R.P. FREITAS CARRIER/WAYBILL NO. NA

Sample Number	Sample Location and Description	Date and Time Collected	Sample Type	Container Type	Condition on Receipt (Name and Date)	Disposal Record No.
020811100	COLLECTION 4' DEEP, SOIL	2/8/93 11:00	SOIL	1 120z GLASS JAR		
020811122	" 8' DEEP, SOIL	2/8/93 11:22	SOIL	1 80z GLASS JAR		

Special Instructions:

Possible Sample Hazards:

SIGNATURES: (Name, Company, Date and Time)

1. Relinquished By: R.P. F, RS, 2/8/93, 16:55
   Received By: Gary Cook ChromaLab 2/8/93 16:55
2. Relinquished By:
   Received By:
3. Relinquished By:
   Received By:
4. Relinquished By:
   Received By:

WHITE - To accompany samples
YELLOW - Field copy
PINK - Office copy

Remediation Services, Inc.

REQUEST FOR ANALYSIS

R/A Control No. R020893A
C/C Control No. C020893C

PROJECT NAME: ARCO
PROJECT NUMBER: R93003
PROJECT MANAGER: ROD FREITAG
BILL TO: REMEDIATION SERVICES
1181 QUARRY LN, BLDG. 350
PLEASANTON, CA 94566
PURCHASE ORDER NO.: N/A

DATE SAMPLES SHIPPED: 2-8-93
LAB DESTINATION: CONTROL LABS
LABORATORY CONTACT: PIERRE / ERIC
SEND LAB REPORT TO: ROD FREITAG
DATE REPORT REQUIRED: 2-15-93
PROJECT CONTACT: ROD FREITAG
PROJECT CONTACT PHONE NO.: (510) 462-4002

Sample No.	Sample Type	Sample Volume	Preservative	Requested Testing Program/Instructions
020811100	SOIL	120Z JAR	ICE	8010, HYDROCARBON OIL & GREASE
020811122	SOIL	8OZ JAR	ICE	HYDROCARBON OIL & GREASE

Normal _____ Rush _____ (Subject to rush surcharge) Results Desired By (Date) 2-15-93

POSSIBLE HAZARD IDENTIFICATION: (Please indicate if sample(s) are hazardous materials and/or suspected to contain high levels of hazardous substances.)

Nonhazard _____ Flammable _____ Skin Irritant _____ Highly Toxic _____ Other _____ (Please Specify)

SAMPLE DISPOSAL: (Please indicate disposition of sample following analysis. Lab will charge for packing, shipping and disposal.)

Return to Client _____ Disposal by Lab _____

FOR LAB USE ONLY

Received By _____ Date/Time _____

WHITE - To accompany samples
YELLOW - Field copy
PINK - Office copy

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

June 2, 1993

ChromaLab File No.: 0693009
Submission #:

REMEDIATION SERVICES, INC.

Attn: Rod Freitag

RE: Three soil samples for Oil & Grease analysis

Project Name: AIRCO
Project Number: R93005
Date Sampled: June 1, 1993
Date Submitted: June 1, 1993
Date Analyzed: June 1, 1993

RESULTS:

Sample I.D.	Oil & Grease (mg/Kg)
06011442	N.D.
06011435	N.D.
06011450	N.D.
BLANK	N.D.
DETECTION LIMIT	50
METHOD OF ANALYSIS	STD METHOD 5520 E & F

ChromaLab, Inc.

Carolyn M. House
Analyst

Eric Tam
Laboratory Director

cc

2239 Omega Road,#1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

REMEDIATION SERVICES, INC.

BUBR #: 9306000009
SAMPLE: ~~7473~~ 06011435
CLIENT: REMEDTN
DUE: 06/02/93

order # 11892

CHAIN-OF-CUSTODY RECORD

R/A Control No. [illegible]

C/C Control No. [illegible]

PROJECT NAME/NUMBER Arlee/R93005

LAB DESTINATION Chromalab

SAMPLE TEAM MEMBERS R.D. Frotan

CARRIER/WAYBILL NO.

Sample Number	Sample Location and Description	Date and Time Collected	Sample Type	Container Type	Condition on Receipt (Name and Date)	Disposal Record No.
060114-3	SW SIDE WALL @3' DEEP Soil	6-1-93 14:31	Soil	2"x6" SS Tube		
060114-2	NE SIDE OF THE PAD @3' DEEP	6-1-93 14:42	Soil	2"x6" SS Tube		
060114-5	NW SIDEWALL @ 3' DEEP	6-1-93 14:50	Soil	2"x6" SS Tube		

Special Instructions: "Rush" Results — Oil Fingerprint

Possible Sample Hazards: Combustible Oil

SIGNATURES: (Name, Company, Date and Time)

1. Relinquished By: [signature] PST 6-1-93 15:45
   Received By: [signature] Petromatrix 6-1-93 15:45
2. Relinquished By:
   Received By:
3. Relinquished By:
   Received By:
4. Relinquished By:
   Received By:

WHITE - To accompany samples
YELLOW - Field copy
PINK - Office copy

RS Remediation Services, Inc.

RUSH

REQUEST FOR ANALYSIS

R/A Control No. [illegible]
C/C Control No. [illegible]

PROJECT NAME	ARCO	DATE SAMPLES SHIPPED	6/1/93
PROJECT NUMBER	2930.05	LAB DESTINATION	CHROMALAB
PROJECT MANAGER	ROB FREITAS	LABORATORY CONTACT	ERIC TAM
BILL TO	REMEDIATION SERVICES 1081 QUARRY LN. BLDG 350 PLEASANTON, CA 94566	SEND LAB REPORT TO	ROB FREITAS
PURCHASE ORDER NO.	N/A	DATE REPORT REQUIRED	6/10/93 VERBAL
		PROJECT CONTACT	ROB FREITAS
		PROJECT CONTACT PHONE NO.	510-913-0002

Sample No.	Sample Type	Sample Volume	Preservative	Requested Testing Program/Instructions
060114 35	SOIL	2½" SS TUBE FULL	ICE	OIL & GREASE
060114 42	SOIL	2"x6" SS TUBE FULL	ICE	OIL & GREASE
060114 50	SOIL	2"x6' SS TUBE FULL	ICE	OIL & GREASE

Normal _____ Rush ✓ (Subject to rush surcharge) Results Desired By (Date) _____

POSSIBLE HAZARD IDENTIFICATION: (Please indicate if sample(s) are hazardous materials and/or suspected to contain high levels of hazardous substances.)

Nonhazard _____ Flammable _____ Skin Irritant _____ Highly Toxic _____ Other _____ (Please Specify)

SAMPLE DISPOSAL: (Please indicate disposition of sample following analysis. Lab will charge for packing, shipping and disposal.)

Return to Client _____ Disposal by Lab _____

FOR LAB USE ONLY

Received By [signature] Date/Time 6/2/93 / 15:40

WHITE - To accompany samples
YELLOW - Field copy
PINK - Office copy

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

June 3, 1993

ChromaLab File No.: 9306021
Submission #: 9306000021

REMEDIATION SERVICES, INC.

Attn: ROD FREITAG

RE: Seven soil samples for Oil & Grease analysis

Project Name: AIRCO
Project Number: R93005
Date Sampled: June 2, 1993
Date Submitted: June 2, 1993
Date Analyzed: June 2, 1993

RESULTS:

Sample I.D.	Oil & Grease (mg/Kg)
0602/148	N.D.
0602/152	1800
0602/158	N.D.
0602/201	190
0602/208	N.D.
0602/216	N.D.
0602/220	N.D.
BLANK	N.D.
DETECTION LIMIT	50
METHOD OF ANALYSIS	STD METHOD 5520 E & F

ChromaLab, Inc.

Carolyn M. House
Analyst

Eric Tam
Laboratory Director

cc

2239 Omega Road, #1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

"RUSH" BY 9:00 AM

RS Remediation Services, Inc.

REQUEST FOR ANALYSIS

R/A Control No. R-0602
C/C Control No. C-0602

PROJECT NAME	AIRCO	DATE SAMPLES SHIPPED	6-2-93
PROJECT NUMBER	103005	LAB DESTINATION	CHROMALAB
PROJECT MANAGER	ROD FREITAG	LABORATORY CONTACT	ERIC
BILL TO	REMEDIATION SERVICES INC. 1181 QUAPPY LANE BLDG. 310 PLEASANTON, CA. 94566	SEND LAB REPORT TO	REMEDIATION SERVICES INC.
PURCHASE ORDER NO.	N/A	DATE REPORT REQUIRED	6-3-93
		PROJECT CONTACT	ROD FREITAG
		PROJECT CONTACT PHONE NO.	(510) 462-9502

Sample No.	Sample Type	Sample Volume	Preservative	Requested Testing Program/Instructions
0602 1148	SOIL	FULL	ICE	OIL & GREASE
0602 1153	↓	↓	↓	↓
0602 1158				
0602 1201				
0602 1208				
0602 1216				
0602 1220				

SUBM #: 9306000021
SAMPLE: 7535 0602 1148
CLIENT: REMEDTN
DUE: 06/03/93

Normal ____ Rush X (Subject to rush surcharge) Results Desired By (Date) ____

POSSIBLE HAZARD IDENTIFICATION: (Please indicate if sample(s) are hazardous materials and/or suspected to contain high levels of hazardous substances.)

Nonhazard ____ Flammable ____ Skin Irritant ____ Highly Toxic ____ Other ____ (Please Specify)

SAMPLE DISPOSAL: (Please indicate disposition of sample following analysis. Lab will charge for packing, shipping and disposal.)

Return to Client ____ Disposal by Lab ____

FOR LAB USE ONLY

Received By [illegible] Date/Time [illegible]

WHITE - To accompany samples
YELLOW - Field copy
PINK - Office copy

"RUSH" 6/9:00 A.M.

REMEDIATION SERVICES, INC.

CHAIN-OF-CUSTODY RECORD

R/A Control No. R-0602

C/C Control No. C-0602

PROJECT NAME/NUMBER AIRCO/B93005

LAB DESTINATION CHROMALAB

SAMPLE TEAM MEMBERS R. FREITAG/E. LIEBAND

CARRIER/WAYBILL NO. N/A

Sample Number	Sample Location and Description	Date and Time Collected	Sample Type	Container Type	Condition on Receipt (Name and Date)	Disposal Record No
C602|19B	(a) 5' DEEP	6-2-93 11:48	SOIL	2"xC" SS TUBE		
C602|152	(b) 6' DEEP	6-2-93 11:52				
C602|158	(c) 3'-8" DEEP	6-2-93 11:58				
C602|201	(d) 4' DEEP	6-2-93 12:01				
C602|208	(e) 4 1/2' DEEP	6-2-93 12:08				
C602|210	(f) 5' DEEP	6-2-93 12:16				
C602|220	(g) 6' DEEP	6-2-93 12:20				

Special Instructions: _____

Possible Sample Hazards: _____

SIGNATURES: (Name, Company, Date and Time)

1. Relinquished By: _____ RS 6-2-93 13:05

   Received By: _____ 6-2-93

2. Relinquished By: _____

   Received By: _____

3. Relinquished By: _____

   Received By: _____

4. Relinquished By: _____

   Received By: _____

WHITE - To accompany samples
YELLOW - Field copy
PINK - Office copy

R93003 "K"

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

June 3, 1993

ChromaLab File No.: 9306035
Submission #:

REMEDIATION SERVICES

Attn: Rod Freitag

RE: Three soil samples for Oil & Grease analysis

Project Name: AIRCO
Project Number: R93003
Date Sampled: June 3, 1993
Date Submitted: June 3, 1993
Date Analyzed: June 3, 1993

RESULTS:

Sample I.D.	Oil & Grease (mg/Kg)
06031158	N.D.
06031204-1 & 2 Composite	N.D.
06031215-1 & 2 Composite	N.D.
BLANK	N.D.
DETECTION LIMIT	50
METHOD OF ANALYSIS	STD METHOD 5520 E & F

ChromaLab, Inc.

Carolyn M. House
Analyst

Eric Tam
Laboratory Director

cc

2239 Omega Road, #1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

[redacted] DUE: 06/03/93

11924

RUSH - VERBAL TODAY !!!

REQUEST FOR ANALYSIS

R/A Control No. RCL0213A
C/C Control No. CCL6393C

PROJECT NAME	Aiken R13003	DATE SAMPLES SHIPPED	6/2/93
PROJECT NUMBER	R13003	LAB DESTINATION	Canonsburg
PROJECT MANAGER	Rod Freitag	LABORATORY CONTACT	Carolyn
BILL TO	Remediation Service	SEND LAB REPORT TO	Remediation
PURCHASE ORDER NO.	NA	DATE REPORT REQUIRED	6/3/93
		PROJECT CONTACT	Rod
		PROJECT CONTACT PHONE NO.	(570) 462-4002

Sample No	Sample Type	Sample Volume	Preservative	Requested Testing Program/Instructions
CL6211S4	Soil	250 ml SS Jar	Ice	Oil - Grease
CL6312U4-1	"	"	"	Composite Oil - Grease
CL6312U4-2	"	"	"	
CL6312I5-1	"	"	"	Composite Oil - Grease
CL6312I5-2	"	"	"	

Normal _____ Rush ✓ (Subject to rush surcharge) Results Desired By (Date) _____

POSSIBLE HAZARD IDENTIFICATION: (Please indicate if sample(s) are hazardous materials and/or suspected to contain high levels of hazardous substances.)

Nonhazard _____ Flammable _____ Skin Irritant _____ Highly Toxic _____ Other _____ (Please Specify)

SAMPLE DISPOSAL: (Please indicate disposition of sample following analysis. Lab will charge for packing, shipping and disposal.)

Return to Client _____ Disposal by Lab _____

FOR LAB USE ONLY

Received By [signature] Date/Time 6.3.93 1705

WHITE - To accompany samples
YELLOW - Field copy
PINK - Office copy

RUSH - VERBAL - MAY 1

REMEDIATION SERVICES, INC.

CHAIN-OF-CUSTODY RECORD

R/A Control No. R060593A

C/C Control No. CR060593C

PROJECT NAME/NUMBER Amer / R93003 LAB DESTINATION Chemmasters

SAMPLE TEAM MEMBERS CAV/RDF CARRIER/WAYBILL NO. N/A

Sample Number	Sample Location and Description	Date and Time Collected	Sample Type	Container Type	Condition on Receipt (Name and Date)	Disposal Record No.
060311158	Excavation Bottom 8'-3", Soil	6/3/93, 11:58	Soil	2 x 6 ss Jars		
060312041	Sidewall 4½', "	6/3/93, 12:04	"	"		
060312042	Sidewall 4½', "	6/3/93, 12:04	"	"		
060312151	Sidewall 5½', "	6/3/93, 12:15	"	"		
060312152	Sidewall 5½', "	6/3/93, 12:15	"	"		

Special Instructions:

Possible Sample Hazards: Compressed Air

SIGNATURES: (Name, Company, Date and Time) 17:00

1. Relinquished By: [signature] RSI - 6-3-93
   Received By: [signature] 6-3-93 - 13:05
2. Relinquished By:
   Received By:
3. Relinquished By:
   Received By:
4. Relinquished By:
   Received By:

WHITE - To accompany samples
YELLOW - Field copy
PINK - Office copy

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

June 21, 1993

ChromaLab File # 9306174

REMEDIATION SERVICES, INC.

Attn: Rod Freitag

Project Name: AIRCO
Date Sampled: June 1, 1993
Date Submitted: June 1, 1993
Date of Analysis: June 15, 1993
Sample I.D.: 06011435

Project No: R93005
Method of Analysis: EPA 8240
Matrix: Soil
Reporting Det Limit: 5.0 µg/Kg
Dilution Factor: None

Compound	µg/Kg	Spike Recovery
CHLOROMETHANEN	N.D.	----
VINYL CHLORIDE	N.D.	----
BROMOETHANE	N.D.	----
CHLOROETHANE	N.D.	----
TRICHLOROFLUOROMETHANE	N.D.	----
1,1-DICHLOROETHENE	N.D.	90% 84%
METHYLENE CHLORIDEN	N.D.	----
1,2-DICHLOROETHENE (TOTAL)	N.D.	----
1,1-DICHLOROETHANE	N.D.	----
CHLOROFORM	N.D.	----
1,1,1-TRICHLOROETHANE	N.D.	----
CARBON TETRACHLORIDE	N.D.	----
BENZENE	N.D.	----
1,2-DICHLOROETHANE	N.D.	----
TRICHLOROETHENE	N.D.	99% 98%
1,2-DICHLOROPROPANE	N.D.	----
BROMODICHLOROMETHANE	N.D.	----
2-CHLOROETHYLVINYLETHER	N.D.	----
TRANS-1,3-DICHLOROPROPENE	N.D.	----
TOLUENE	N.D.	----
CIS-1,3-DICHLOROPROPENE	N.D.	----
1,1,2-TRICHLOROETHANE	N.D.	----
TETRACHLOROETHENE	N.D.	117% 126%
DIBROMOCHLOROMETHANE	N.D.	----
CHLOROBENZENE	N.D.	----
ETHYLBENZENE	N.D.	----
BROMOFORM	N.D.	----
1,1,2,2-TETRACHLOROETHANE	N.D.	106% 109%
1,3-DICHLOROBENZENE	N.D.	----
1,4-DICHLOROBENZENE	N.D.	----
1,2-DICHLOROBENZENE	N.D.	----
TOTAL XYLENES	N.D.	----
ACETONE	1000	----
METHYL ETHYL KETONE	27	----
METHYL ISOBUTYL KETONE	N.D.	----

ChromaLab, Inc.

David Wintergrass
Analytical Chemist

Eric Tam
Laboratory Director

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

June 21, 1993

ChromaLab File # 9306174

REMEDIATION SERVICES, INC.

Attn: Rod Freitag

Project Name: AIRCO
Date Sampled: June 1, 1993
Date Submitted: June 1, 1993
Date of Analysis: June 15, 1993
Sample I.D.: 06011450

Project No: R93005
Method of Analysis: EPA 8240
Matrix: Soil
Reporting Det Limit: 5.0 µg/Kg
Dilution Factor: None

Compound	µg/Kg	Spike Recovery
CHLOROMETHANEN	N.D.	----
VINYL CHLORIDE	N.D.	----
BROMOETHANE	N.D.	----
CHLOROETHANE	N.D.	----
TRICHLOROFLUOROMETHANE	N.D.	----
1,1-DICHLOROETHENE	N.D.	90% 84%
METHYLENE CHLORIDEN	N.D.	----
1,2-DICHLOROETHENE (TOTAL)	N.D.	----
1,1-DICHLOROETHANE	N.D.	----
CHLOROFORM	N.D.	----
1,1,1-TRICHLOROETHANE	N.D.	----
CARBON TETRACHLORIDE	N.D.	----
BENZENE	N.D.	----
1,2-DICHLOROETHANE	N.D.	----
TRICHLOROETHENE	N.D.	99% 98%
1,2-DICHLOROPROPANE	N.D.	----
BROMODICHLOROMETHANE	N.D.	----
2-CHLOROETHYLVINYLETHER	N.D.	----
TRANS-1,3-DICHLOROPROPENE	N.D.	----
TOLUENE	N.D.	----
CIS-1,3-DICHLOROPROPENE	N.D.	----
1,1,2-TRICHLOROETHANE	N.D.	----
TETRACHLOROETHENE	N.D.	117% 126%
DIBROMOCHLOROMETHANE	N.D.	----
CHLOROBENZENE	N.D.	----
ETHYLBENZENE	N.D.	----
BROMOFORM	N.D.	----
1,1,2,2-TETRACHLOROETHANE	N.D.	106% 109%
1,3-DICHLOROBENZENE	N.D.	----
1,4-DICHLOROBENZENE	N.D.	----
1,2-DICHLOROBENZENE	N.D.	----
TOTAL XYLENES	N.D.	----
ACETONE	35000	----
METHYL ETHYL KETONE	720	----
METHYL ISOBUTYL KETONE	N.D.	----

ChromaLab, Inc.

David Wintergrass
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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

June 21, 1993

ChromaLab File # 9306175

REMEDIATION SERVICES, INC.

Attn: Rod Freitag

Project Name: AIRCO
Date Sampled: June 2, 1993
Date Submitted: June 2, 1993
Date of Analysis: June 18, 1993
Sample I.D.: 06021148

Project No: R93005
Method of Analysis: EPA 8240
Matrix: Soil
Reporting Det Limit: 5.0 µg/Kg
Dilution Factor: None

Compound	µg/Kg	Spike Recovery
CHLOROMETHANEN	N.D.	----
VINYL CHLORIDE	N.D.	----
BROMOETHANE	N.D.	----
CHLOROETHANE	N.D.	----
TRICHLOROFLUOROMETHANE	N.D.	----
1,1-DICHLOROETHENE	N.D.	90% 84%
METHYLENE CHLORIDEN	N.D.	----
1,2-DICHLOROETHENE (TOTAL)	N.D.	----
1,1-DICHLOROETHANE	N.D.	----
CHLOROFORM	N.D.	----
1,1,1-TRICHLOROETHANE	N.D.	----
CARBON TETRACHLORIDE	N.D.	----
BENZENE	N.D.	----
1,2-DICHLOROETHANE	N.D.	----
TRICHLOROETHENE	N.D.	99% 98%
1,2-DICHLOROPROPANE	N.D.	----
BROMODICHLOROMETHANE	N.D.	----
2-CHLOROETHYLVINYLETHER	N.D.	----
TRANS-1,3-DICHLOROPROPENE	N.D.	----
TOLUENE	N.D.	----
CIS-1,3-DICHLOROPROPENE	N.D.	----
1,1,2-TRICHLOROETHANE	N.D.	----
TETRACHLOROETHENE	N.D.	117% 126%
DIBROMOCHLOROMETHANE	N.D.	----
CHLOROBENZENE	N.D.	----
ETHYLBENZENE	N.D.	----
BROMOFORM	N.D.	----
1,1,2,2-TETRACHLOROETHANE	N.D.	106% 109%
1,3-DICHLOROBENZENE	N.D.	----
1,4-DICHLOROBENZENE	N.D.	----
1,2-DICHLOROBENZENE	N.D.	----
TOTAL XYLENES	N.D.	----
ACETONE	39000	----
METHYL ETHYL KETONE	65	----
METHYL ISOBUTYL KETONE	N.D.	----

ChromaLab, Inc.

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

June 21, 1993

ChromaLab File # 9306175

REMEDIATION SERVICES, INC.

Attn: Rod Freitag

Project Name: AIRCO
Date Sampled: June 2, 1993
Date Submitted: June 2, 1993
Date of Analysis: June 18, 1993
Sample I.D.: 06021158

Project No: R93005
Method of Analysis: EPA 8240
Matrix: Soil
Reporting Det Limit: 5.0 µg/Kg
Dilution Factor: None

Compound	µg/Kg	Spike Recovery
CHLOROMETHANEN	N.D.	----
VINYL CHLORIDE	N.D.	----
BROMOETHANE	N.D.	----
CHLOROETHANE	N.D.	----
TRICHLOROFLUOROMETHANE	N.D.	----
1,1-DICHLOROETHENE	N.D.	90% 84%
METHYLENE CHLORIDEN	N.D.	----
1,2-DICHLOROETHENE (TOTAL)	N.D.	----
1,1-DICHLOROETHANE	N.D.	----
CHLOROFORM	N.D.	----
1,1,1-TRICHLOROETHANE	N.D.	----
CARBON TETRACHLORIDE	N.D.	----
BENZENE	N.D.	----
1,2-DICHLOROETHANE	N.D.	----
TRICHLOROETHENE	N.D.	99% 98%
1,2-DICHLOROPROPANE	N.D.	----
BROMODICHLOROMETHANE	N.D.	----
2-CHLOROETHYLVINYLETHER	N.D.	----
TRANS-1,3-DICHLOROPROPENE	N.D.	----
TOLUENE	N.D.	----
CIS-1,3-DICHLOROPROPENE	N.D.	----
1,1,2-TRICHLOROETHANE	N.D.	----
TETRACHLOROETHENE	N.D.	117% 126%
DIBROMOCHLOROMETHANE	N.D.	----
CHLOROBENZENE	N.D.	----
ETHYLBENZENE	N.D.	----
BROMOFORM	N.D.	----
1,1,2,2-TETRACHLOROETHANE	N.D.	106% 109%
1,3-DICHLOROBENZENE	N.D.	----
1,4-DICHLOROBENZENE	N.D.	----
1,2-DICHLOROBENZENE	N.D.	----
TOTAL XYLENES	N.D.	----
ACETONE	29000	----
METHYL ETHYL KETONE	1100	----
METHYL ISOBUTYL KETONE	N.D.	----

ChromaLab, Inc.

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

June 21, 1993

ChromaLab File # 9306175

REMEDIATION SERVICES, INC.

Attn: Rod Freitag

Project Name: AIRCO
Date Sampled: June 2, 1993
Date Submitted: June 2, 1993
Date of Analysis: June 18, 1993
Sample I.D.: 06021208

Project No: R93005
Method of Analysis: EPA 8240
Matrix: Soil
Reporting Det Limit: 5.0 µg/Kg
Dilution Factor: None

Compound	µg/Kg	Spike Recovery
CHLOROMETHANEN	N.D.	----
VINYL CHLORIDE	N.D.	----
BROMOETHANE	N.D.	----
CHLOROETHANE	N.D.	----
TRICHLOROFLUOROMETHANE	N.D.	----
1,1-DICHLOROETHENE	N.D.	90% 84%
METHYLENE CHLORIDEN	N.D.	----
1,2-DICHLOROETHENE (TOTAL)	N.D.	----
1,1-DICHLOROETHANE	N.D.	----
CHLOROFORM	N.D.	----
1,1,1-TRICHLOROETHANE	N.D.	----
CARBON TETRACHLORIDE	N.D.	----
BENZENE	N.D.	----
1,2-DICHLOROETHANE	N.D.	----
TRICHLOROETHENE	N.D.	99% 98%
1,2-DICHLOROPROPANE	N.D.	----
BROMODICHLOROMETHANE	N.D.	----
2-CHLOROETHYLVINYLETHER	N.D.	----
TRANS-1,3-DICHLOROPROPENE	N.D.	----
TOLUENE	N.D.	----
CIS-1,3-DICHLOROPROPENE	N.D.	----
1,1,2-TRICHLOROETHANE	N.D.	----
TETRACHLOROETHENE	N.D.	117% 126%
DIBROMOCHLOROMETHANE	N.D.	----
CHLOROBENZENE	N.D.	----
ETHYLBENZENE	N.D.	----
BROMOFORM	N.D.	----
1,1,2,2-TETRACHLOROETHANE	N.D.	106% 109%
1,3-DICHLOROBENZENE	N.D.	----
1,4-DICHLOROBENZENE	N.D.	----
1,2-DICHLOROBENZENE	N.D.	----
TOTAL XYLENES	N.D.	----
ACETONE	850	----
METHYL ETHYL KETONE	54	----
METHYL ISOBUTYL KETONE	N.D.	----

ChromaLab, Inc.

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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

June 21, 1993

ChromaLab File # 9306175

REMEDIATION SERVICES, INC.

Attn: Rod Freitag

Project Name: AIRCO
Date Sampled: June 2, 1993
Date Submitted: June 2, 1993
Date of Analysis: June 18, 1993
Sample I.D.: 06021216

Project No: R93005
Method of Analysis: EPA 8240
Matrix: Soil
Reporting Det Limit: 5.0 µg/Kg
Dilution Factor: None

Compound	µg/Kg	Spike Recovery
CHLOROMETHANEN	N.D.	----
VINYL CHLORIDE	N.D.	----
BROMOETHANE	N.D.	----
CHLOROETHANE	N.D.	----
TRICHLOROFLUOROMETHANE	N.D.	----
1,1-DICHLOROETHENE	N.D.	90% 84%
METHYLENE CHLORIDEN	N.D.	----
1,2-DICHLOROETHENE (TOTAL)	N.D.	----
1,1-DICHLOROETHANE	N.D.	----
CHLOROFORM	N.D.	----
1,1,1-TRICHLOROETHANE	N.D.	----
CARBON TETRACHLORIDE	N.D.	----
BENZENE	N.D.	----
1,2-DICHLOROETHANE	N.D.	----
TRICHLOROETHENE	N.D.	99% 98%
1,2-DICHLOROPROPANE	N.D.	----
BROMODICHLOROMETHANE	N.D.	----
2-CHLOROETHYLVINYLETHER	N.D.	----
TRANS-1,3-DICHLOROPROPENE	N.D.	----
TOLUENE	N.D.	----
CIS-1,3-DICHLOROPROPENE	N.D.	----
1,1,2-TRICHLOROETHANE	N.D.	----
TETRACHLOROETHENE	N.D.	117% 126%
DIBROMOCHLOROMETHANE	N.D.	----
CHLOROBENZENE	N.D.	----
ETHYLBENZENE	N.D.	----
BROMOFORM	N.D.	----
1,1,2,2-TETRACHLOROETHANE	N.D.	106% 109%
1,3-DICHLOROBENZENE	N.D.	----
1,4-DICHLOROBENZENE	N.D.	----
1,2-DICHLOROBENZENE	N.D.	----
TOTAL XYLENES	N.D.	----
ACETONE	4000	----
METHYL ETHYL KETONE	51	----
METHYL ISOBUTYL KETONE	N.D.	----

ChromaLab, Inc.

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Eric Tam
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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

June 21, 1993

ChromaLab File # 9306175

REMEDIATION SERVICES, INC.

Attn: Rod Freitag

Project Name: AIRCO
Date Sampled: June 2, 1993
Date Submitted: June 2, 1993
Date of Analysis: June 18, 1993
Sample I.D.: 06021220

Project No: R93005
Method of Analysis: EPA 8240
Matrix: Soil
Reporting Det Limit: 5.0 µg/Kg
Dilution Factor: None

Compound	µg/Kg	Spike Recovery
CHLOROMETHANEN	N.D.	----
VINYL CHLORIDE	N.D.	----
BROMOETHANE	N.D.	----
CHLOROETHANE	N.D.	----
TRICHLOROFLUOROMETHANE	N.D.	----
1,1-DICHLOROETHENE	N.D.	90% 84%
METHYLENE CHLORIDEN	N.D.	----
1,2-DICHLOROETHENE (TOTAL)	N.D.	----
1,1-DICHLOROETHANE	N.D.	----
CHLOROFORM	N.D.	----
1,1,1-TRICHLOROETHANE	N.D.	----
CARBON TETRACHLORIDE	N.D.	----
BENZENE	N.D.	----
1,2-DICHLOROETHANE	N.D.	----
TRICHLOROETHENE	N.D.	99% 98%
1,2-DICHLOROPROPANE	N.D.	----
BROMODICHLOROMETHANE	N.D.	----
2-CHLOROETHYLVINYLETHER	N.D.	----
TRANS-1,3-DICHLOROPROPENE	N.D.	----
TOLUENE	N.D.	----
CIS-1,3-DICHLOROPROPENE	N.D.	----
1,1,2-TRICHLOROETHANE	N.D.	----
TETRACHLOROETHENE	N.D.	117% 126%
DIBROMOCHLOROMETHANE	N.D.	----
CHLOROBENZENE	N.D.	----
ETHYLBENZENE	N.D.	----
BROMOFORM	N.D.	----
1,1,2,2-TETRACHLOROETHANE	N.D.	106% 109%
1,3-DICHLOROBENZENE	N.D.	----
1,4-DICHLOROBENZENE	N.D.	----
1,2-DICHLOROBENZENE	N.D.	----
TOTAL XYLENES	N.D.	----
ACETONE	270	----
METHYL ETHYL KETONE	15	----
METHYL ISOBUTYL KETONE	N.D.	----

ChromaLab, Inc.

David Wintergrass
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Eric Tam
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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

June 21, 1993

ChromaLab File # 9306176

REMEDIATION SERVICES, INC.

Attn: Rod Freitag

Project Name: AIRCO
Date Sampled: June 3, 1993
Date Submitted: June 3, 1993
Date of Analysis: June 18, 1993
Sample I.D.: 06031158

Project No: R93005
Method of Analysis: EPA 8240
Matrix: Soil
Reporting Det Limit: 5.0 µg/Kg
Dilution Factor: None

Compound	µg/Kg	Spike Recovery
CHLOROMETHANEN	N.D.	----
VINYL CHLORIDE	N.D.	----
BROMOETHANE	N.D.	----
CHLOROETHANE	N.D.	----
TRICHLOROFLUOROMETHANE	N.D.	----
1,1-DICHLOROETHENE	N.D.	90% 84%
METHYLENE CHLORIDEN	N.D.	----
1,2-DICHLOROETHENE (TOTAL)	N.D.	----
1,1-DICHLOROETHANE	N.D.	----
CHLOROFORM	N.D.	----
1,1,1-TRICHLOROETHANE	N.D.	----
CARBON TETRACHLORIDE	N.D.	----
BENZENE	28	----
1,2-DICHLOROETHANE	N.D.	----
TRICHLOROETHENE	N.D.	99% 98%
1,2-DICHLOROPROPANE	N.D.	----
BROMODICHLOROMETHANE	N.D.	----
2-CHLOROETHYLVINYLETHER	N.D.	----
TRANS-1,3-DICHLOROPROPENE	N.D.	----
TOLUENE	N.D.	----
CIS-1,3-DICHLOROPROPENE	N.D.	----
1,1,2-TRICHLOROETHANE	N.D.	----
TETRACHLOROETHENE	N.D.	117% 126%
DIBROMOCHLOROMETHANE	N.D.	----
CHLOROBENZENE	N.D.	----
ETHYLBENZENE	N.D.	----
BROMOFORM	N.D.	----
1,1,2,2-TETRACHLOROETHANE	N.D.	106% 109%
1,3-DICHLOROBENZENE	N.D.	----
1,4-DICHLOROBENZENE	N.D.	----
1,2-DICHLOROBENZENE	N.D.	----
TOTAL XYLENES	N.D.	----
ACETONE	370	----
METHYL ETHYL KETONE	18	----
METHYL ISOBUTYL KETONE	N.D.	----

ChromaLab, Inc.

David Wintergrass
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Eric Tam
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CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

June 21, 1993

ChromaLab File # 9306176

REMEDIATION SERVICES, INC.

Attn: Rod Freitag

Project Name: AIRCO
Date Sampled: June 3, 1993
Date Submitted: June 3, 1993
Date of Analysis: June 18, 1993
Sample I.D.: 06031204-1

Project No: R93005
Method of Analysis: EPA 8240
Matrix: Soil
Reporting Det Limit: 5.0 µg/Kg
Dilution Factor: None

Compound	µg/Kg	Spike Recovery
CHLOROMETHANEN	N.D.	----
VINYL CHLORIDE	N.D.	----
BROMOETHANE	N.D.	----
CHLOROETHANE	N.D.	----
TRICHLOROFLUOROMETHANE	N.D.	----
1,1-DICHLOROETHENE	N.D.	90% 84%
METHYLENE CHLORIDEN	N.D.	----
1,2-DICHLOROETHENE (TOTAL)	N.D.	----
1,1-DICHLOROETHANE	N.D.	----
CHLOROFORM	N.D.	----
1,1,1-TRICHLOROETHANE	N.D.	----
CARBON TETRACHLORIDE	N.D.	----
BENZENE	N.D.	----
1,2-DICHLOROETHANE	N.D.	----
TRICHLOROETHENE	N.D.	99% 98%
1,2-DICHLOROPROPANE	N.D.	----
BROMODICHLOROMETHANE	N.D.	----
2-CHLOROETHYLVINYLETHER	N.D.	----
TRANS-1,3-DICHLOROPROPENE	N.D.	----
TOLUENE	N.D.	----
CIS-1,3-DICHLOROPROPENE	N.D.	----
1,1,2-TRICHLOROETHANE	N.D.	----
TETRACHLOROETHENE	9.7	117% 126%
DIBROMOCHLOROMETHANE	N.D.	----
CHLOROBENZENE	N.D.	----
ETHYLBENZENE	N.D.	----
BROMOFORM	N.D.	----
1,1,2,2-TETRACHLOROETHANE	N.D.	106% 109%
1,3-DICHLOROBENZENE	N.D.	----
1,4-DICHLOROBENZENE	N.D.	----
1,2-DICHLOROBENZENE	N.D.	----
TOTAL XYLENES	N.D.	----
ACETONE	440	----
METHYL ETHYL KETONE	36	----
METHYL ISOBUTYL KETONE	N.D.	----

ChromaLab, Inc.

David Wintergrass
Analytical Chemist

Eric Tam
Laboratory Director

cc

2239 Omega Road, #1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

June 21, 1993

ChromaLab File # 9306176

REMEDIATION SERVICES, INC.

Attn: Rod Freitag

Project Name: AIRCO
Date Sampled: June 3, 1993
Date Submitted: June 3, 1993
Date of Analysis: June 18, 1993
Sample I.D.: 06031204-2

Project No: R93005
Method of Analysis: EPA 8240
Matrix: Soil
Reporting Det Limit: 5.0 µg/Kg
Dilution Factor: None

Compound	µg/Kg	Spike Recovery
CHLOROMETHANEN	N.D.	----
VINYL CHLORIDE	N.D.	----
BROMOETHANE	N.D.	----
CHLOROETHANE	N.D.	----
TRICHLOROFLUOROMETHANE	N.D.	----
1,1-DICHLOROETHENE	N.D.	90% 84%
METHYLENE CHLORIDEN	N.D.	----
1,2-DICHLOROETHENE (TOTAL)	N.D.	----
1,1-DICHLOROETHANE	N.D.	----
CHLOROFORM	N.D.	----
1,1,1-TRICHLOROETHANE	N.D.	----
CARBON TETRACHLORIDE	N.D.	----
BENZENE	7.5	----
1,2-DICHLOROETHANE	N.D.	----
TRICHLOROETHENE	N.D.	99% 98%
1,2-DICHLOROPROPANE	N.D.	----
BROMODICHLOROMETHANE	N.D.	----
2-CHLOROETHYLVINYLETHER	N.D.	----
TRANS-1,3-DICHLOROPROPENE	N.D.	----
TOLUENE	N.D.	----
CIS-1,3-DICHLOROPROPENE	N.D.	----
1,1,2-TRICHLOROETHANE	N.D.	----
TETRACHLOROETHENE	83	117% 126%
DIBROMOCHLOROMETHANE	N.D.	----
CHLOROBENZENE	N.D.	----
ETHYLBENZENE	N.D.	----
BROMOFORM	N.D.	----
1,1,2,2-TETRACHLOROETHANE	N.D.	106% 109%
1,3-DICHLOROBENZENE	N.D.	----
1,4-DICHLOROBENZENE	N.D.	----
1,2-DICHLOROBENZENE	N.D.	----
TOTAL XYLENES	N.D.	----
ACETONE	79000	----
METHYL ETHYL KETONE	250	----
METHYL ISOBUTYL KETONE	N.D.	----

ChromaLab, Inc.

David Wintergrass
Analytical Chemist

Eric Tam
Laboratory Director

cc

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(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

Remediation Services, Inc.

ADDITIONAL ANALYSES FOR SOIL SAMPLES SUBMITTED 6/1, 6/2, & 6/3

REQUEST FOR ANALYSIS

R/A Control No. _____
C/C Control No. _____

PROJECT NAME	ARCO	DATE SAMPLES SHIPPED	JUNE 1, 2 & 3
PROJECT NUMBER	93007	LAB DESTINATION	CHROMALAB
PROJECT MANAGER	ROD FREITAG	LABORATORY CONTACT	ERIC TAM
BILL TO	REMEDIATION SERVICES	SEND LAB REPORT TO	
PURCHASE ORDER NO.		DATE REPORT REQUIRED	NORMAL TAT
		PROJECT CONTACT	ROD FREITAG
		PROJECT CONTACT PHONE NO.	510 462-4002

Sample No.	Sample Type	Sample Volume	Preservative	Requested Testing Program/Instructions
D6011435	SOIL	2"x6" SS TUBE	ICE	8240
D6011450	SOIL	"	"	"
D6021148	"	"	"	"
D6021158	"	"	"	"
D6021208	"	"	"	"
D6021216	"	"	"	"
D6021220	"	"	"	"
D6031158	"	"	"	"
D6031204-1	"	"	"	"
D6031204-2	"	"	"	"

Normal ✓ Rush _____ (Subject to rush surcharge) Results Desired By (Date) _____

POSSIBLE HAZARD IDENTIFICATION: (Please indicate if sample(s) are hazardous materials and/or suspected to contain high levels of hazardous substances.)

Nonhazard _____ Flammable _____ Skin Irritant _____ Highly Toxic _____ Other _____ (Please Specify)

SAMPLE DISPOSAL: (Please indicate disposition of sample following analysis. Lab will charge for packing, shipping and disposal.)

Return to Client _____ Disposal by Lab _____

FOR LAB USE ONLY

Received By _____ Date/Time _____

WHITE - To accompany samples
YELLOW - Field copy
PINK - Office copy

ROBERT Y. CHEW
GEOTECHNICAL, INC.

26203 PRODUCTION AVENUE, SUITE 7
HAYWARD, CALIFORNIA 94545
(510) 783-1881
FAX (510) 783-1912

Project No. 91015-A24E1
June 11, 1993

Mr. Rod Freitag
Remediation Services, Inc.
1181 Quarry Lane, Building 350
Pleasanton, California 94566

SUBJECT: Excavated Pit Backfill Observations and Testing
Acetylene Plant
Airco Industrial Gases Facility
1588 Doolittle Drive
San Leandro, California

Dear Mr. Freitag:

As requested, our firm has observed the excavated pit backfilling and performed field density testing at the subject site. The scope of our services included attendance at meetings and discussions with yourself and the grading contractor regarding site preparation requirements, scheduling, and procedures; obtaining a bulk sample of the on-site backfill material for laboratory testing; and observations of placement and subsequent testing of the compacted backfill material.

Our engineering staff made site visits during the period between June 2 to June 4, 1993. During these visits, we recovered a bulk sample of the on-site backfill material for laboratory compaction testing; presented verbal recommendations for backfilling procedures; and observed site preparation, compaction procedures, and performed field density tests. The results of the laboratory compaction test (and the results of a previous laboratory compaction test for the imported aggregate base material) are presented in Table 1. The results of the field density tests are presented in Table 2. The approximate locations of the field density tests are shown on the Site Plan, Figure 1.

The roughly triangular-shaped pit was situated near the eastern corner of the Acetylene Plant Building, located at the southeastern property corner of the Airco Gases Facility. The excavated area forming the pit was approximately 238 square feet and its depth ranged from approximately 6 to 8 feet.

During our site visit on June 3, 1993, we recommended that the pit backfilling procedures consist of "proof-rolling" the exposed grade of the pit. Pumping or soft areas observed during the proof-rolling, if any, should be excavated to firm material. Following the proof-rolling, backfill material should be placed in uniform lifts not exceeding 8 inches in loose thickness, moisture-conditioned, and compacted to at least 90 percent of the maximum dry density, as determined by the ASTM D-1557 test method.

On June 4, 1993, it was observed that the exposed grade of the pit excavation was proof-rolled until firm; the on-site backfill material was then placed in thin (6-8 inches) uniform lifts, moisture conditioned, and compacted to at least 90 percent of the maximum dry density, as determined by the ASTM D-1557 test method; and approximately 6 feet of imported Class II aggregate base (AB) material was subsequently placed in thin lifts over the compacted on-site backfill material, moisture conditioned and compacted to at least 90 percent of the maximum dry density.

Based upon our observations and the results of the field density testing, it is our opinion that the site preparation, moisture conditioning, placement and compaction of the on-site and imported backfill material were performed in substantial conformance with our above stated recommendations.

If you have questions regarding the information contained in this report, please contact us.

Respectfully submitted,

ROBERT Y. CHEW GEOTECHNICAL, INC.

Rod R. Schurman
Project Engineer

Robert Y.C. Chew
Geotechnical Engineer
G.E. 2009

REGISTERED PROFESSIONAL ENGINEER
ROBERT Y.C. CHEW
No. 2009
Exp. 9-30-9[illegible]
GEOTECHNICAL
STATE OF CALIFORNIA

RRS/RYCC:rrs

Enclosures: Tables 1 and 2
Figure 1

Distribution: Remediation Services, Inc.
Attn: Mr. Rod Freitag (4 Copies)

TABLE 1 Project No. 91015-A24E1

SUMMARY OF LABORATORY COMPACTION TEST RESULTS
(ASTM D-1557 Test Method)

Curve No.	Description of Material	Optimum Moisture Content	Maximum Dry Density
9	RECYCLED CLASS II AGGREGATE BASE: grayish tan (Import).	8.0 %	138.0 pcf
10	SANDY GRAVEL: brown; trace to some silt & clay (On-Site Mix).	10.0 %	138.0 pcf

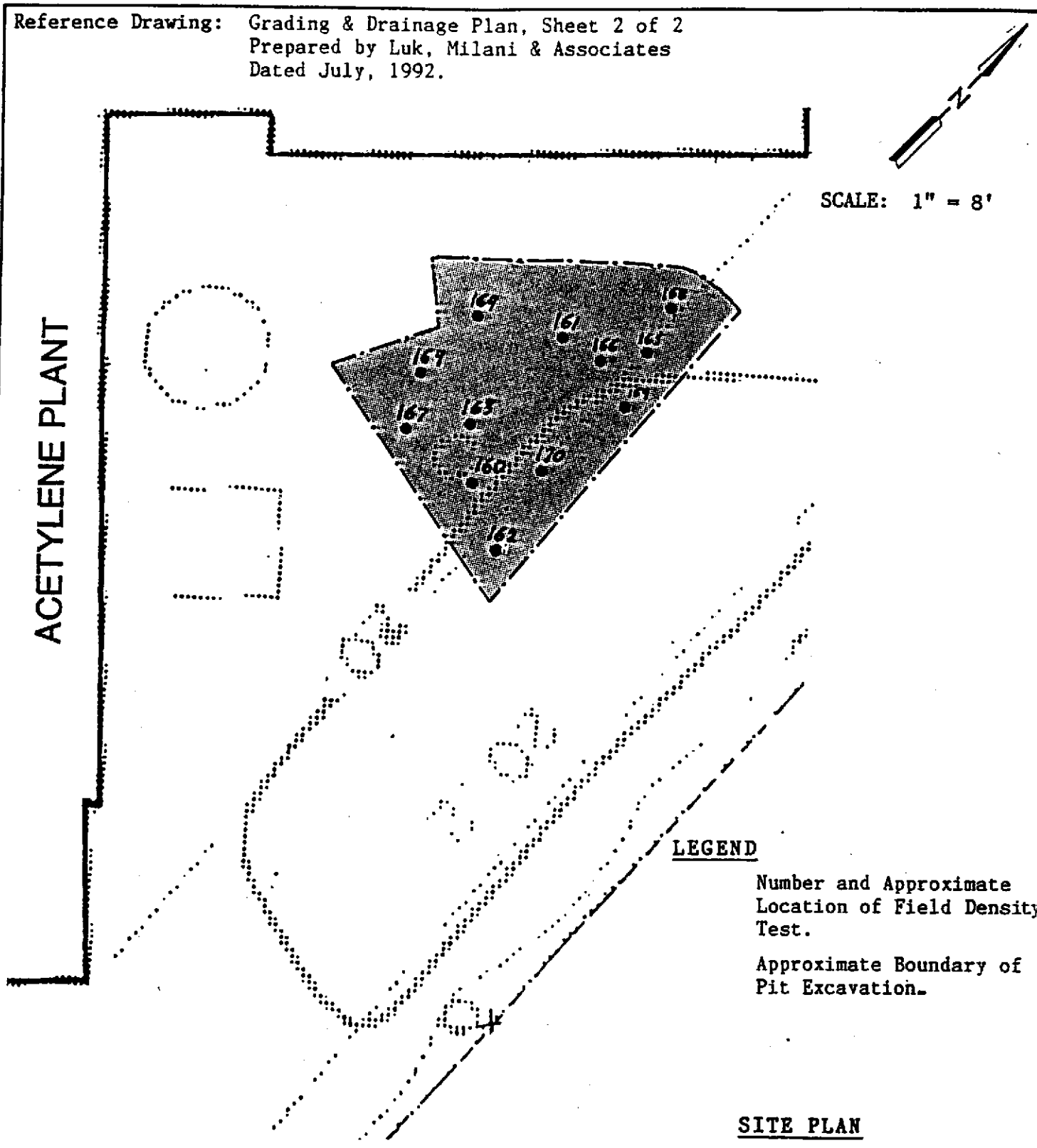
TABLE 2 Project No. 91015-A24E1

SUMMARY OF FIELD DENSITY TEST RESULTS
(ASTM D-2922 Nuclear Test Method)

Test No.	Date Tested	Approximate Referenced Elevation Feet	Moisture Content Percent	Dry Density pcf	Relative Compaction Percent	Reference Curve	Required Compaction Percent	Remarks
159	6/4/93	FSG-6.5	9.8	125	91	10	90	
160	6/4/93	FSG-6.5	10.3	125	90	10	90	
161	6/4/93	FSG-5.0	10.0	124	90	9	90	
162	6/4/93	FSG-5.0	7.3	126	91	9	90	
163	6/4/93	FSG-3.5	7.0	128	92	9	90	
164	6/4/93	FSG-3.5	8.3	129	94	9	90	
165	6/4/93	FSG-3.5	7.5	125	91	9	90	
166	6/4/93	FSG-1.5	8.2	131	95	9	90	
167	6/4/93	FSG-2.0	7.3	129	93	9	90	
168	6/4/93	FSG-0.5	6.9	126	91	9	90	
169	6/4/93	FSG-0.5	7.5	125	91	9	90	
170	6/4/93	FSG-0.5	7.8	124	90	9	90	

FSG-1.0 = One Foot Below Finished Slab Grade (FSG).

Reference Drawing: Grading & Drainage Plan, Sheet 2 of 2
Prepared by Luk, Milani & Associates
Dated July, 1992.



LEGEND

Number and Approximate Location of Field Density Test.

Approximate Boundary of Pit Excavation.

SITE PLAN

Excavated Pit Backfill
Observations & Testing
Acetylene Plant
Airco Industrial Gases Facility
1588 Doolittle Drive
San Leandro, California

Project No. 91015-A24E1
June, 1993

SITE PLAN - Figure 1

ROBERT Y. CHEW GEOTECHNICAL, INC.

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

June 8, 1993

ChromaLab file number: 9306034
Submission #: 9306000034

REMEDIATION SERVICES, INC.

Attn: ROD FREITAG

RE: One soil sample for Total CAM 17 Metals analyses (CA Title 22)

Project Name: AIRCO
Project Number: R93003
Date Sampled: June 3, 1993
Date Received: June 3, 1993
Date Analyzed: June 7, 1993

RESULTS: Sample I.D.: 06031019

Metals	Concentration (mg/Kg)	Detection Limit (mg/Kg)
Antimony (Sb)	0.49	1.00
Arsenic (As)	5.4	0.25
Barium (Ba)	120	0.25
Beryllium (Be)	0.14	0.05
Cadmium (Cd)	1.5	0.05
Cobalt (Co)	9.5	0.50
Chromium (Cr)	39	0.50
Copper (Cu)	19	0.25
Lead (Pb)	6.6	0.50
Mercury (Hg)	0.174	0.05
Molybdenum (Mo)	2.5	0.25
Nickel (Ni)	42	0.50
Selenium (Se)	N.D.	0.50
Silver (Ag)	0.55	0.25
Thallium (Tl)	N.D.	2.00
Vanadium (V)	21	0.50
Zinc (Zn)	65	0.25

Method of Analysis: 3050/6010/7471

ChromaLab, Inc.

Charles Woolley
Analytical Chemist

Refaat A. Mankarious
Inorganic Supervisor

do

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(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

June 22, 1993

ChromaLab File No.: 9306233
Submission #: 9306000233

REMEDIATION SERVICES, INC.

Attn: Rod Freitag

RE: One soil sample for STLC-As, Cr, Hg & V analyses

Project Name: AIRCO
Project Number: R93003
Date Sampled: June 3, 1993
Date Submitted: June 3, 1993
Date Analyzed: June 22, 1993

RESULTS: Sample I.D.: 0603109

Metals	Concentration (mg/L)	Detection Limit (mg/L)
Arsenic (As)	0.18	0.05
Chromium (Cr)	0.5	0.10
Mercury (Hg)	0.047	0.005
Vanadium (V)	1.3	0.10

Method of Analysis: WET/3010/6010/7470

ChromaLab, Inc.

Charles Woolley
Analytical Chemist

Refaat A. Mankarious
Inorganic Supervisor

do

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

June 9, 1993

ChromaLab File No.: 9306034
Submission #: 9306000034

REMEDIATION SERVICES, INC.

Attn: ROD FREITAG

RE: One soil sample for PCB analysis

Project Name: AIRCO
Project Number: R93003
Date Sampled: June 03, 1993
Date Submitted: June 03, 1993
Date Extracted: June 10, 1993
Date Analyzed: June 10, 1993

RESULTS:

Sample I.D.	PCB (mg/Kg)
06031019	N.D.
BLANK	N.D.
DETECTION LIMIT	0.1
METHOD OF ANALYSIS	8080

ChromaLab, Inc.

Alex Tam
Analytical Chemist

Eric Tam
Laboratory Director

2239 Omega Road, #1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

June 9, 1993

ChromaLab File # 9306034
Submission #: 9306000034

REMEDIATION SERVICES, INC.

Attn: ROD FREITAG

Project Name: AIRCO
Date Sampled: June 3, 1993
Date Submitted: June 3, 1993
Date of Analysis: June 7, 1993
Sample I.D.: 06031019

Project No: R93003
Method of Analysis: EPA 8240
Matrix: Soil
Reporting Det Limit: 5.0 µg/Kg
Dilution Factor: None

Compound	µg/Kg	Spike Recovery
CHLOROMETHANE	N.D.	----
VINYL CHLORIDE	N.D.	----
BROMOETHANE	N.D.	----
CHLOROETHANE	N.D.	----
TRICHLOROFLUOROMETHANE	N.D.	----
1,1-DICHLOROETHENE	N.D.	79% 78%
METHYLENE CHLORIDE	N.D.	----
1,2-DICHLOROETHENE (TOTAL)	N.D.	----
1,1-DICHLOROETHANE	N.D.	----
CHLOROFORM	N.D.	----
1,1,1-TRICHLOROETHANE	N.D.	----
CARBON TETRACHLORIDE	N.D.	----
BENZENE	N.D.	----
1,2-DICHLOROETHANE	N.D.	----
TRICHLOROETHENE	N.D.	96% 87%
1,2-DICHLOROPROPANE	N.D.	----
BROMODICHLOROMETHANE	N.D.	----
2-CHLOROETHYLVINYLETHER	N.D.	----
TRANS-1,3-DICHLOROPROPENE	N.D.	----
TOLUENE	N.D.	----
CIS-1,3-DICHLOROPROPENE	N.D.	----
1,1,2-TRICHLOROETHANE	N.D.	----
TETRACHLOROETHENE	18	102% 107%
DIBROMOCHLOROMETHANE	N.D.	----
CHLOROBENZENE	N.D.	----
ETHYLBENZENE	N.D.	----
BROMOFORM	N.D.	----
1,1,2,2-TETRACHLOROETHANE	N.D.	101% 83%
1,3-DICHLOROBENZENE	N.D.	----
1,4-DICHLOROBENZENE	N.D.	----
1,2-DICHLOROBENZENE	N.D.	----
TOTAL XYLENES	N.D.	----
ACETONE	11000	----
METHYL ETHYL KETONE	111	----
METHYL ISOBUTYL KETONE	N.D.	----

ChromaLab, Inc.

David Wintergrass
Analytical Chemist

Eric Tam
Laboratory Director

dt

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

June 10, 1993

ChromaLab File No.: 9306034
Submission #: 9306000034

REMEDIATION SERVICES, INC.

Attn: ROD FREITAG

RE: Soil sample(s) for reactivity, corrosivity, and ignitability (RCI) analyses.

Project Name: AIRCO
Project Number: R93003
Date Sampled: June 3, 1993
Date Analyzed: June 10, 1993

Date Submitted: June 3, 1993

RESULTS:

Sample I.D.	Reactivity	Corrosivity	Ignitability
06031019	No	8.3	No
BLANK	No	pH 7.0	No
METHOD OF ANALYSIS	CA Title SEC.66261.23(1-4)	CA Title SEC.66261.22	CA Title SEC.66261.21

ChromaLab, Inc.

Carolyn M. House
Analyst

Eric Tam
Laboratory Director

do

2239 Omega Road, #1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

SUBM #: 9306000034
CLIENT: REMEDTN
DUE: 06/10/93

Normal TAT

REMED
SERVIC

11923

REQUEST FOR ANALYSIS

R/A Control No. RL060393A
C/C Control No. C060393C

PROJECT NAME: Arco
PROJECT NUMBER: R93003
PROJECT MANAGER: Rod Freitag
BILL TO: Remediation Services
1181 Quarry Ln Bldg 350
Pleasanton, CA
PURCHASE ORDER NO.: NA

DATE SAMPLES SHIPPED: 6/3/93
LAB DESTINATION: Chromalab
LABORATORY CONTACT: Carolyn / Eric
SEND LAB REPORT TO: Remediation Services
DATE REPORT REQUIRED: 6/10/93
PROJECT CONTACT: Rod Freitag
PROJECT CONTACT PHONE NO.: (510) 462-4002

Sample No.	Sample Type	Sample Volume	Preservative	Requested Testing Program/Instructions
06031019	Soil #1	2"x6" SS Tube	ICE	
06031019	Soil #2	"	"	Composite all 5 samples into 1 and analyze for CAM metals, 418.1, 8240, RCI, PCB
06031019	Soil #3	"	"	
06031019	Soil #4	"	"	
06031019	Concrete/Bedrock #5	"	"	

TURNAROUND TIME REQUIRED: (Rush must be approved by the Project Manager.)
Normal V. Rush _____ (Subject to rush surcharge) Results Desired By (Date) _____

POSSIBLE HAZARD IDENTIFICATION: (Please indicate if sample(s) are hazardous materials and/or suspected to contain high levels of hazardous substances.)
Nonhazard _____ Flammable _____ Skin Irritant _____ Highly Toxic _____ Other _____ (Please Specify)

SAMPLE DISPOSAL: (Please indicate disposition of sample following analysis. Lab will charge for packing, shipping and disposal.)
Return to Client _____ Disposal by Lab _____

FOR LAB USE ONLY
Received By _____ Date/Time 6-7-93 13:05

WHITE - To accompany samples
YELLOW - Field copy
PINK - Office copy

NORMAL TAT

REMEDIATION SERVICES, INC.

CHAIN-OF-CUSTODY RECORD

R/A Control No. RD60393A

C/C Control No. C060393C

PROJECT NAME/NUMBER R93003 ARCO

LAB DESTINATION CHROMALAB

SAMPLE TEAM MEMBERS E.A. URBANO, R.D. FREITAG

CARRIER/WAYBILL NO. N/A

Sample Number	Sample Location and Description	Date and Time Collected	Sample Type	Container Type	Condition on Receipt (Name and Date)	Disposal Record No.
060310/17	STOCKPILE, SOIL #1	6/3/93 10[12]	SOIL	2'x6' SS TUBE		
060310/18	" , SOIL #2	6/3/93 10[19]	SOIL	" " "		
060310/19	" , SOIL #3	6/3/93 10[13]	SOIL	" " "		
060310/20	" , SOIL #4	6/3/93 10[19]	SOIL	" " "		
060310/21	" , CONCRETE; BOREHOLE #5	6/3/93 10[19]	CONCRETE; BORING	" " "		

Special Instructions:

Possible Sample Hazards: COMPRESSOR OIL

SIGNATURES: (Name, Company, Date and Time)

1. Relinquished By: [signature] RST 6-3-93 13:00

   Received By: [signature] 6-3-93 13:05

2. Relinquished By:

   Received By:

3. Relinquished By:

   Received By:

4. Relinquished By:

   Received By:

WHITE - To accompany samples
YELLOW - Field copy
PINK - Office copy

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

June 8, 1993

ChromaLab File No.: 9306034
Submission #: 9306000034

REMEDIATION SERVICES, INC.

Attn: ROD FREITAG

RE: One soil samples for Total Recoverable Petroleum Hydrocarbon (TRPH) analysis by EPA 418.1

Project Name: AIRCO
Project Number: R93003
Date Sampled: June 3, 1993
Date Submitted: June 3, 1993
Date Analyzed: June 8, 1993

RESULTS:

Sample I.D.	Total Recoverable Petroleum Hydrocarbon (mg/Kg)
06031019	610
BLANK	N.D.
DETECTION LIMIT	10
METHOD OF ANALYSIS	EPA 418.1

ChromaLab, Inc.

Carolyn M. House
Analyst

Eric Tam
Laboratory Director

do

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(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157