

**REPORT
SITE INVESTIGATION
OAKLAND BAY BRIDGE
East Bay Span
Oakland, California
Volume II of II**

APEX Project No. 153DT

Contract No. 53U495

Task Order No. 04-04343K-01

Prepared For

**STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DISTRICT 4
111 Grand Avenue
Oakland, CA 94623**

PREPARED BY

**APEX ENVIRONMENTAL RECOVERY, INC.
5772 Bolsa Avenue, Suite 230
Huntington Beach, California 92649**

**Nevin Murtha
Project Manager**

**Gerald L. Kirkpatrick
Project Manager
Registered Civil Engineer
(C-18500)**

March 22, 1994

Appendix C: Laboratory Reports and Chain-of-Custody Records

Client: Apex Environmental Recovery, Inc.
Address: 5772 Bolsa Avenue, Ste. 230
Huntington Beach, CA 92649
Attn: Ms. Jane Campbell

Lab No.: See Below
Date Sampled: 12/30/93
Date Received: 01/04/94

Project: Bay Bridge 153 DT Oakland, CA
Caltrans TO#: 04-04343K-01
Matrix: Soil

EPA METHOD 418.1 (TRPH)					
LAB NO.	SAMPLE ID	DATE ANALYZED	RESULTS	UNITS	DLR
940104-008	B24C1-0	01/12/94	32	mg/kg	4
940104-008 Dup	B24C1-0	01/13/94	44	mg/kg	4
940104-009	B24C1-0	01/12/94	600	mg/kg	200
940104-010	B24C1-3	01/12/94	756	mg/kg	100
940104-011	B25C1-0	01/12/94	588	mg/kg	100
940104-012	B25C1-0	01/13/94	253	mg/kg	100
940104-013	B25C1-7	01/13/94	1280	mg/kg	100
940104-014	B26C1-0	01/13/94	152	mg/kg	100
940104-015	B26C1-3	01/13/94	145	mg/kg	50
940104-016	B27C1-0	01/13/94	400	mg/kg	100
940104-017	B27C1-5	01/13/94	6500	mg/kg	1000

ND = Not Detected. Below indicated limit of detection.

Reviewed and Approved By:



Chris Duncan
Assistant Laboratory Director

Date:

1/17/94

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


Client: Apex Environmental Recovery, Inc.
Address: 5772 Bolsa Avenue, Ste. 230
Huntington Beach, CA 92649
Attn: Ms. Jane Campbell

Lab No.: See Below
Date Sampled: 12/30/93
Date Received: 01/04/94

Project: Bay Bridge 153 DT Oakland, CA
Caltrans TO#: 04-04343K-01
Matrix: Soil

EPA METHOD 418.1 (TRPH)					
LAB NO.	SAMPLE ID	DATE ANALYZED	RESULTS	UNITS	DLR
940104-018	B27C1-8	01/13/94	7800	mg/kg	1000
940104-019	B29C1-0	01/13/94	1300	mg/kg	100
940104-020	B29C1-3	01/13/94	11	mg/kg	4
940104-020 Dup	B29C1-3	01/13/94	4.8	mg/kg	4
940104-021	B29C1-16	01/13/94	ND	mg/kg	4
940104-022	B24C2-0	01/13/94	108	mg/kg	50
940104-023	B24C2-7	01/13/94	50	mg/kg	4
940104-024	B24C2-11	01/13/94	590	mg/kg	100
940104-025	B25C2-3	01/13/94	135	mg/kg	50
940104-026	B26C2-0	01/13/94	2340	mg/kg	200
940104-027	B27C2-3	01/13/94	940	mg/kg	100

ND = Not Detected. Below indicated limit of detection.

Reviewed and Approved By: 
Chris Duncan
Assistant Laboratory Director

Date: 1/17/94

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Address: 5772 Bolsa Avenue, Ste. 230
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Attn: Ms. Jane Campbell

Lab No.: See Below
Date Sampled: 12/30/93
Date Received: 01/04/94

Project: Bay Bridge 153 DT Oakland, CA
Caltrans TO#: 04-04343K-01
Matrix: Soil

EPA METHOD 418.1 (TRPH)					
LAB NO.	SAMPLE ID	DATE ANALYZED	RESULTS	UNITS	DLR
940104-028	B27C2-7	01/13/94	8.4	mg/kg	4
940104-029	B27C2-11	01/13/94	ND	mg/kg	4
940104-030	B29C2-0	01/13/94	4100	mg/kg	1000
940104-031	B29C2-3	01/13/94	ND	mg/kg	4
940104-031 Dup	B29C2-3	01/13/94	ND	mg/kg	4
940104-032	B29C2-16	01/13/94	ND	mg/kg	4
940104-033	B30C2-0	01/13/94	2100	mg/kg	200
940104-034	B30C2-3	01/13/94	ND	mg/kg	4
940104-035	B30C2-16	01/13/94	4.4	mg/kg	4

ND = Not Detected. Below indicated limit of detection.

Reviewed and Approved By: Chris Duncan
Chris Duncan
Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: See Below
 Date Sampled: 12/29/93
 Date Received: 01/03/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans TO#: 04-04343K-01
 Matrix: Soil

EPA METHOD 418.1 (TRPH)					
LAB NO.	SAMPLE ID	DATE ANALYZED	RESULTS	UNITS	DLR
940103-001	B36C1-0	01/07/94	400	mg/kg	40
940103-001 Dup	B36C1-0	01/07/94	456	mg/kg	40
940103-002	B36C1-3	01/07/94	ND	mg/kg	4
940103-003	B36C1-14	01/07/94	ND	mg/kg	4
940103-004	B33C1-0	01/07/94	256	mg/kg	20
940103-005	B33C1-3	01/07/94	ND	mg/kg	4
940103-006	B33C1-14	01/07/94	4.8	mg/kg	4
940103-007	B32C1-0	01/07/94	16	mg/kg	4
940103-008	B32C1-3	01/07/94	ND	mg/kg	4
940103-009	B32C1-9	01/07/94	21	mg/kg	4
940103-010	B32C1-15	01/07/94	244	mg/kg	20

ND = Not Detected. Below indicated limit of detection.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: See Below
 Date Sampled: 12/29/93
 Date Received: 01/03/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans TO#: 04-04343K-01
 Matrix: Soil

EPA METHOD 418.1 (TRPH)					
LAB NO.	SAMPLE ID	DATE ANALYZED	RESULTS	UNITS	DLR
940103-012	B31C2-0	01/07/94	3440	mg/kg	400
940103-013	B31C2-3	01/07/94	8.0	mg/kg	4
940103-013 Dup	B31C2-3	01/07/94	8.8	mg/kg	4
940103-014	B31C2-15	01/07/94	ND	mg/kg	4
940103-015	B31C1-0	01/07/94	42	mg/kg	4
940103-016	B31C1-3	01/07/94	12	mg/kg	4
940103-017	B30C1-0	01/07/94	34	mg/kg	4
940103-018	B30C1-3	01/07/94	4.4	mg/kg	4
940103-021	B31C1-9	01/07/94	ND	mg/kg	4
940103-022	B31C1-15	01/07/94	ND	mg/kg	4

ND = Not Detected. Below indicated limit of detection.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Spike Recovery and RPD Summary Report

Method: 418.1
 Analyst: IG
 File No: 4007QA/APEX

Date: 01/07/94
 Sample ID: BLANK
 Matrix: SOIL

ANALYTE	UNITS	LCS CONC	LCS RESULT	% REC	METH BLANK	SPL CONC	SPK ADDED	MS RESULT	MSD RESULT	%MS REC	%MSD REC	% REC Limit	RPD	RPD Limit	DLR
TRPH	mg/kg	10	10	100	ND	ND	40	36	35	91	87	80-120	4	20	4
TRPH	mg/kg	10	11	110	ND	ND	40	36	36	90	91	80-120	1	20	4

Approved by: Tim L. Lebkuecher
 Tim L. Lebkuecher
 QA Officer

Date: 1/17/94

Ship To: A.T.L.
 Attn: Puri
Signal Hill, CA

Page 1 of 2
 Project Name: Bay Bridge
 Project No.: 153 07
 Site Location: Oakland, CA
 Date: Dec 129, 93

CHAIN OF CUSTODY RECORD


Col Trans TO
04-04343K-01

Boring/Well No.	Sample No.	Depth	Date	Time	Sample Type			Comp.	Grab.	Sample Containers				Analysis	Remarks			
					Water	Solid	Other			Vol.	No.	Type	Pros					
B36C1	-0	0	12/29			✓				1			X	X	X	X	X	
B36C1	-3	3				✓				1								
B36C1	-14	14				✓				1								
B33C1	-0	0				✓				1								
B33C1	-3	3				✓				1								
B33C1	-14	14				✓				1								
B32C1	-0	0				✓				1								
B32C1	-3	3				✓				1								
B32C1	-9	9				✓				1								
B32C1	-15	15				✓				1			X	X	X	X		
B32C1	W					✓				1			X	X	X	X		1 VOA (All recovered)
B32C2	-0	0				✓				1			X	X	X	X		
B32C2	-3	3				✓				1								

Total Number of Samples Shipped: _____ Shipper's Signature: AD Kelypat

Signature	Company	Date	Time
Relinquished by: <u>AD Kelypat</u>	<u>APEX</u>	<u>12-30-93</u>	<u>10:00</u>
Received by:	<u>United Couriers</u>	<u>12-30-93</u>	<u>10:00</u>
Relinquished by:			
Received by: <u>Kim Schultz</u>	<u>ATL</u>	<u>01-03-94</u>	<u>10:24 am</u>
Relinquished by:			
Received by:			

Special Instructions / Shipment / Handling / Storage Requirements:
 * Selected Metals (Pb, Zn, As, Cr, Cd) only
 ** Full Scan
 Supply WET if 10 times STLC
 Supply Sample Analysis Chromatograph



SMARTER SOLUTIONS FOR A CLEANER TOMORROW

15661 Producer Lane, Suite N
 Huntington Beach, California 90269

Ship To: A.T.L.
 Attn: Pur.
Signal Hill, CA

Page 2 of 2
 Project Name: Bay Bridge
 Project No.: 153 OT
 Site Location: Oakland CA
 Date: Dec 29 93

CHAIN OF CUSTODY RECORD

Analysis	
6010*	8080
8240	8250/70
6010**	718.1

Caltrans TO
04-04343K-01

Boring/Well No.	Sample No.	Depth	Date	Time	Sample Type			Comp.	Grab.	Sample Containers										
					Water	Solid	Other			Vol.	No.	Type	Pros							
B32 C2	-15	15	12/29			X				1										
B31 C1	-0	0				✓				1										
B31 C1	-3	3				✓				1										
B30 C1	-0	0				✓				1										
B30 C1	-3	3				✓				1		X	X	X	X					
3050	N	0				✓				1						X				
32/3350	N	0				✓				1						X				
B31 C1	-9	9				✓				1		X	X	X	X					
B31 C1	-15	15				✓				1		X	X	X	X					

Remarks

Total Number of Samples Shipped:

Shipper's Signature: [Signature]

Signature	Company	Date	Time
Relinquished by: <u>[Signature]</u>	<u>APEX</u>	<u>12-30-93</u>	<u>10 am</u>
Received by:	<u>United Carriers</u>	<u>12-30-93</u>	<u>10 am</u>
Relinquished by:			
Received by: <u>[Signature]</u>	<u>ATL</u>	<u>01-03-94</u>	<u>10:24 am</u>
Relinquished by:			
Received by:			

Special Instructions / Shipment / Handling / Storage Requirements:
 * Selected Metals (Pb, Zn, As, Cr, Cd) only
 ** Full Scan
 Supply WET if 10 time STLC
 Supply Sample Analysis Chromatograph



15661 Producer Lane, Suite N
 Huntington Beach, California 90269

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: See Below
 Date Sampled: 12/31/93
 Date Received: 01/04/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans TO#: 04-04343K-01
 Matrix: Soil

EPA METHOD 418.1 (TRPH)					
LAB NO.	SAMPLE ID	DATE ANALYZED	RESULTS	UNITS	DLR
940104-042	B28C2-0	01/14/94	228	mg/kg	50
940104-042 Dup	B28C2-0	01/14/94	228	mg/kg	50
940104-043	B28C2-2	01/14/94	65	mg/kg	4
940104-044	B32C2-0	01/14/94	ND	mg/kg	4
940104-045	B32C2-3	01/14/94	6.0	mg/kg	4
940104-045 Dup	B32C2-3	01/14/94	4.4	mg/kg	4
940104-046	B32C2-9	01/14/94	48	mg/kg	4
940104-047	B33C2-0	01/14/94	316	mg/kg	100
940104-048	B33C2-3	01/14/94	22	mg/kg	4
940104-049	B33C2-9	01/14/94	ND	mg/kg	4
940104-050	B36C2-0	01/14/94	8.0	mg/kg	4
940104-051	B36C2-3	01/14/94	4.0	mg/kg	4
940104-052	B36C2-6	01/14/94	ND	mg/kg	4

ND = Not Detected. Below indicated limit of detection.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Spike Recovery and RPD Summary Report

Method: 418.1
Analyst: KS
File No: 4014-4

Date: 01/14/94
Sample ID: 940104-045
Matrix: Soil

ANALYTE	UNITS	LCS CONC	LCS RESULT	% REC	METH BLANK	SPL CONC	SPK ADDED	MS RESULT	MSD RESULT	%MS REC	%MSD REC	% REC Limit	RPD	RPD Limit	DLR
TRPH	mg/kg	10	9.3	93	ND	6.0	40	34	35	70	73	50-120	4	30	4.0

Approved by: Tim L. Lebkuecher
Tim L. Lebkuecher
QA Officer

Date: 1/17/94

Spike Recovery and RPD Summary Report

Method: 418.1
 Analyst: KS
 File No: 4014-3

Date: 01/14/94
 Sample ID: 940104-042
 Matrix: Soil

ANALYTE	UNITS	LCS CONC	LCS RESULT	% REC	METH BLANK	SPL CONC	SPK ADDED	MS RESULT	MSD RESULT	%MS REC	%MSD REC	% REC Limit	RPD	RPD Limit	DLR
TRPH	mg/kg	10	10	100	ND	228	555	733	722	91	89	50-120	2	30	50

Approved by: Tim L. Lebkuecher
 Tim L. Lebkuecher
 QA Officer

Date: 1/17/94

Ship To: A.T.L. Page 1 of 1
 Attn: Puri Project Name: Bay Bridge
Signal Hill, CA Project No.: 153DT
 Site Location: Oakland
 Date: 12/31/93

CHAIN OF CUSTODY RECORD

Analysis					
6010*	8080	8240	8250/70	6010*	418.1

Caltrans TO
04-04343K-01

NO OTHER
KAS
B3162-0
B3162-3

Boring/Well No.	Sample No.	Depth	Date	Time	Sample Type			Comp	Grab	Sample Containers				Remarks				
					Water	Solid	Other			Vol.	No.	Type	Pros					
B28C2	-0	0	12/31			X				1			X	X	X	X	X	
B28C2	-2	2				X				1			X	X	X	X	X	
B32C2	-0	0				X				1			X	X	X	X	X	
B32C2	-3	3				X				1			X	X	X	X	X	
B32C2	-9	9				X				1			X	X	X	X	X	
B33C2	-0	0				X				1			X	X	X	X	X	
B33C2	-3	3				X				1			X	X	X	X	X	
B33C2	-9	9				X				1			X	X	X	X	X	
B36C2	-0	0				X				1			X	X	X	X	X	
B36C2	-3	3				X				1			X	X	X	X	X	
B36C2	-6	6				X				1			X	X	X	X	X	
Decon	1					X				4			X	X				Decon H ₂ O 4 1/2 Hr

Total Number of Samples Shipped: _____ Shipper's Signature: Ash Kurlantsev

Signature	Company	Date	Time
Relinquished by: <u>Ash Kurlantsev</u>	<u>APEX</u>	<u>1-3-94</u>	
Received by: <u>O. Wimal</u>	<u>United Carriers</u>	<u>1-3-94</u>	<u>1:20</u>
Relinquished by:			
Received by: <u>Kim Schultz</u>	<u>ATL</u>	<u>1/4/93</u>	<u>11AM</u>
Relinquished by:			
Received by:			

Special Instructions / Shipment / Handling / Storage Requirements:
 * Selected Metals (Pb, Zn, As, Cr, Cd) only
 ** Full Scan
 Supply WET 10 times STLC
 Supply Sample Analysis Chromatographs

APEX ENVIRONMENTAL RECOVERY
 SMARTER SOLUTIONS FOR A CLEANER TOMORROW
 15661 Producer Lane, Suite N
 Huntington Beach, California 90269

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-008
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/12/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B24C1-0

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____

Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-009
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/12/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B24C1-0

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-010
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/12/94
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B24C1-3

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/12/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-022
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/13/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B24C2-0

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell


Lab No.: 940104-011
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/12/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B25C1-0

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/12/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell


Lab No.: 940104-012
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/12/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B25C1-0

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/12/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-013
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/12/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B25C1-7

EPA Method 8240

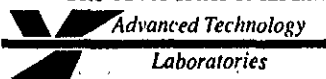
ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/12/94

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



Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-015
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/12/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B26C1-3

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/12/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-026
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/14/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B26C2-0

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-016
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/12/94
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B27C1-0

EPA Method 8240

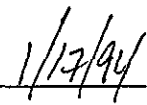
ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____



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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-017
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/12/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B27C1-5

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/7/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-018
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/12/94
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B27C1-8

EPA Method 8240

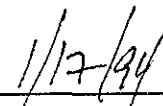
ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____



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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-028
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/15/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B27C2-7

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-019
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/12/94
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B29C1-0

EPA Method 8240

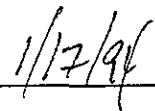
ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____



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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-020 Dup
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/12/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B29C1-3

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-020
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/12/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B29C1-3

EPA Method 8240

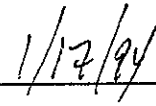
ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____



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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-021
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/13/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B29C1-16

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-033
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/15/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B30C2-0

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-034
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/15/94
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B30C2-3

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-035
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/15/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B30C2-16

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: 

Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-035 Dup
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/15/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B30C2-16

EPA Method 8240

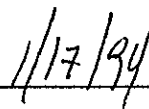
ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____



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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-Blank 3
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/14/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-042
 Date Sampled: 12/29/93
 Date Received: 01/04/94
 Date Analyzed: 01/14/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B28C2-0

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-043
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Analyzed: 01/14/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B28C2-2

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Advanced Technology

Laboratories

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-044
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Analyzed: 01/14/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B32C2-0

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-045
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Analyzed: 01/14/94
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B32C2-3

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-046
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Analyzed: 01/14/94
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B32C2-9

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Advanced Technology

Laboratories

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-047
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Analyzed: 01/14/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B33C2-0

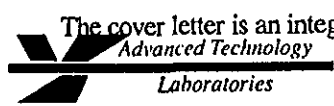
EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94



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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-048
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Analyzed: 01/14/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B33C2-3

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-049
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Analyzed: 01/14/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B33C2-9

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/12/94

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell


Lab No.: 940104-050
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Analyzed: 01/14/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B36C2-0

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-051
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Analyzed: 01/14/94
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B36C2-3

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell


Lab No.: 940104-052
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Analyzed: 01/14/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B36C2-6

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-052 Dup
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Analyzed: 01/14/94
 Dilution Factor: 1

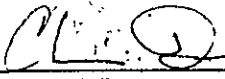
Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B36C2-6

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	50
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-Blank
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Analyzed: 01/14/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrofein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-LCS
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Analyzed: 01/14/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil

EPA Method 8240

ANALYTE	Results, ug/kg	% Recovery	ANALYTE	Results, ug/kg	% Recovery
Acetone	49	98	1,1-Dichloroethene	52	104
Acrolein	NA	NA	cis-1,2-Dichloroethene	53	106
Acrylonitrile	123	123	trans-1,2-Dichloroethene	52	104
Benzene	51	102	1,2-Dichloropropane	50	100
Bromodichloromethane	49	98	cis-1,3-Dichloropropene	50	100
Bromoform	52	104	trans-1,3-Dichloropropene	50	100
Bromomethane	43	86	Ethylbenzene	51	102
2-Butanone	31	62	2-Hexanone	51	102
Carbon Disulfide	49	98	Methylene Chloride	54	108
Carbon tetrachloride	49	98	4-Methyl-2-Pentanone	53	106
Chlorobenzene	51	102	Styrene	51	102
Chloroethane	51	102	1,1,2,2-Tetrachloroethane	54	108
2-Chloroethyl Vinyl Ether	NA	NA	Tetrachloroethene	49	98
Chloroform	52	104	Toluene	51	102
Chloromethane	52	104	1,1,1-Trichloroethane	50	100
1,2-Dichlorobenzene *	51	102	1,1,2-Trichloroethane	52	104
1,3-Dichlorobenzene *	50	100	Trichloroethene	50	100
1,4-Dichlorobenzene *	51	102	Trichlorofluoromethane	51	102
Dibromochloromethane	50	100	Vinyl Acetate	47	94
1,1-Dichloroethane	51	102	Vinyl Chloride	53	106
1,2-Dichloroethane	54	108	Xylenes (total)	152	102

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____

Chris Duncan

Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Advanced Technology

Laboratories

QA/QC FOR 01/14/94

Spike Recovery and RPD Summary Report - SOIL (ug/kg)

Method : C:\HPCHEM\1\METHODS\8240X.M
Title : VOA 8240-624 TCL
Response via : Continuing Calibration

Non-Spiked Sample: V0494.D 940104-052

Spike Sample	Spike Duplicate Sample
File ID : VS496.D	VS497.D
Sample : 940104-052 MS	940104-052 MSD
Acq Time: 14 Jan 94 6:16 pm	14 Jan 94 6:48 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
1,1-Dichloroethene	0.0	50	45	45	89	91	2	22	59-172
Benzene	0.0	50	44	45	89	89	0	14	84-117
Trichloroethene	0.0	50	43	44	87	87	1	15	80-106
Toluene	0.0	50	53	49	99	91	8	17	82-128
Chlorobenzene	0.0	50	47	47	95	93	2	18	76-117

Reviewed/Approved By: Tim L. Lebkuecher
Tim Lebkuecher
QA/QC Officer

Date: 1/17/94

QA/QC FOR 01/13/94

Spike Recovery and RPD Summary Report - SOIL (ug/kg)

Method : C:\HPCHEM\1\METHODS\8240X.M
Title : VOA 8240-624 TCL
Response via : Continuing Calibration

Non-Spiked Sample: V0468.D

Spike Sample	Spike Duplicate Sample
File ID : VS470.D	VS471.D
Sample : 940103-018 MS	940103-018 MSD
Acq Time: 13 Jan 94 7:27 pm	13 Jan 94 7:59 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
1,1-Dichloroethene	0.0	50	46	41	91	82	10	22	59-172
Benzene	0.0	50	49	46	97	91	7	14	84-117
Trichloroethene	0.0	50	47	44	94	87	8	15	80-106
Toluene	10.0	50	56	51	93	83	12	17	82-128
Chlorobenzene	0.0	50	49	45	98	90	9	18	76-117

Reviewed/Approved By: Tim L. Lebkuecher
Tim Lebkuecher
QA/QC Officer

Date: 1/17/94

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-001
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/22/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B24C2-7

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/24/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-002
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/22/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B24C2-11

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____



Chris Duncan
 Assistant Laboratory Director

Date: _____

1/24/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-003
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/22/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B25C2-3

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: 

Chris Duncan
 Assistant Laboratory Director

Date: 1/24/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-004
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/22/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B26C2-0

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: 1/24/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-005
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/22/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B27C2-3

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: 1/24/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-007
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/22/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B27C2-11

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: 1/24/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-008
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/22/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B29C2-0

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: CLD

Chris Duncan
 Assistant Laboratory Director

Date: 1/24/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-009
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/22/94
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B29C2-3

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: 1/24/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-010
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/22/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B29C2-16

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/24/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-011
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/22/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B30C1-0

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: 1/24/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-012
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/22/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B30C1-3

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/24/94

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Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-013
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/22/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B30C2-0

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/24/94

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Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-014
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/22/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B30C2-3

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: 1/24/94

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Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-015
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/22/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B30C2-16

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: 

Chris Duncan
 Assistant Laboratory Director

Date: 1/24/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-016
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/23/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B31C1-0

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/24/94

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Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-017
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/23/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B31C1-3

EPA Method 8240

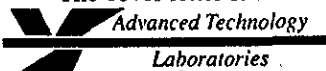
ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/24/94

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



Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-018
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/23/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B31C1-9

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: 1/24/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-019
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/23/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B31C1-15

EPA Method 8240

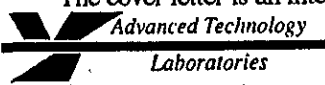
ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/24/94

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



Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-020
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/23/94
 Dilution Factor: 1

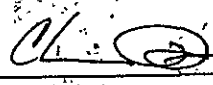
Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B31C2-0

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: 1/24/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-021
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/23/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B31C2-3

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: 1/24/94

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Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-022
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/23/94
 Dilution Factor: 1

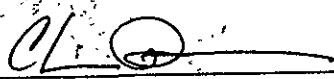
Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B31C2-15

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/24/94

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Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-023
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/23/94
 Dilution Factor: 1

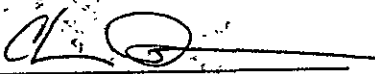
Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B32C1-0

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/24/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-024
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/23/94
 Dilution Factor: 1

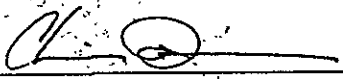
Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B32C1-3

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/24/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-025
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/23/94
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B32C1-9

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/24/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-026
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/23/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B32C1-15

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/24/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-027
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/23/94
 Dilution Factor: 1

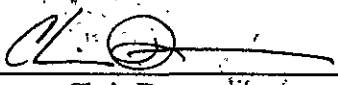
Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B33C1-14

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/24/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-LCS 2
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/23/94
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil

EPA Method 8240

ANALYTE	Results, ug/kg	% Recovery	ANALYTE	Results, ug/kg	% Recovery
Acetone	63	126	1,1-Dichloroethene	49	98
Acrolein	NA	NA	cis-1,2-Dichloroethene	44	88
Acrylonitrile	76	76	trans-1,2-Dichloroethene	45	90
Benzene	51	102	1,2-Dichloropropane	51	102
Bromodichloromethane	51	102	cis-1,3-Dichloropropene	51	102
Bromoform	55	110	trans-1,3-Dichloropropene	53	106
Bromomethane	47	94	Ethylbenzene	50	100
2-Butanone	51	102	2-Hexanone	59	118
Carbon Disulfide	47	94	Methylene Chloride	50	100
Carbon tetrachloride	49	98	4-Methyl-2-Pentanone	55	110
Chlorobenzene	50	100	Styrene	49	98
Chloroethane	46	92	1,1,2,2-Tetrachloroethane	61	122
2-Chloroethyl Vinyl Ether	NA	NA	Tetrachloroethene	50	100
Chloroform	45	90	Toluene	53	106
Chloromethane	45	90	1,1,1-Trichloroethane	49	98
1,2-Dichlorobenzene *	53	106	1,1,2-Trichloroethane	56	112
1,3-Dichlorobenzene *	46	96	Trichloroethene	50	100
1,4-Dichlorobenzene *	50	100	Trichlorofluoromethane	52	104
Dibromochloromethane	51	102	Vinyl Acetate	56	112
1,1-Dichloroethane	45	90	Vinyl Chloride	49	98
1,2-Dichloroethane	49	98	Xylenes (total)	150	100

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/24/94

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Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-Blank 2
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/23/94
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/29/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-020 Dup
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/23/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B31C2-0

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/24/94

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

QA/QC FOR 01/22/94

Spike Recovery and RPD Summary Report - SOIL (ug/kg)

Method : C:\HPCHEM\1\METHODS\8240X.M
 Title : VOA 8240-624 TCL
 Response via : Continuing Calibration

Non-Spiked Sample: V0600.D 940122-010

Spike Sample	Spike Duplicate Sample
File ID : VS602.D	VS603.D
Sample : 940122-010 MS	940122-010 MSD
Acq Time: 22 Jan 94 11:30 pm	23 Jan 94 12:02 am

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
1,1-Dichloroethene	0.0	50	44	41	88	83	6	22	59-172
Benzene	0.0	50	46	44	92	89	3	14	84-117
Trichloroethene	0.0	50	44	44	89	88	1	15	80-106
Toluene	0.0	50	47	47	93	94	1	17	82-128
Chlorobenzene	0.0	50	48	46	96	92	4	18	76-117

Reviewed/Approved By: Tim J. Lebeck

Date: 1/24/94

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-LCS 1
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/22/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil

EPA Method 8240

ANALYTE	Results, ug/kg	% Recovery	ANALYTE	Results, ug/kg	% Recovery
Acetone	59	118	1,1-Dichloroethene	54	108
Acrolein	NA	NA	cis-1,2-Dichloroethene	47	94
Acrylonitrile	60	120	trans-1,2-Dichloroethene	48	96
Benzene	53	106	1,2-Dichloropropane	56	112
Bromodichloromethane	56	112	cis-1,3-Dichloropropene	56	112
Bromoform	57	114	trans-1,3-Dichloropropene	57	114
Bromomethane	48	96	Ethylbenzene	54	108
2-Butanone	50	100	2-Hexanone	63	126
Carbon Disulfide	53	106	Methylene Chloride	54	108
Carbon tetrachloride	55	116	4-Methyl-2-Pentanone	53	106
Chlorobenzene	54	108	Styrene	53	106
Chloroethane	48	96	1,1,2,2-Tetrachloroethane	56	106
2-Chloroethyl Vinyl Ether	NA	NA	Tetrachloroethene	55	110
Chloroform	49	98	Toluene	55	110
Chloromethane	47	94	1,1,1-Trichloroethane	55	110
1,2-Dichlorobenzene *	55	110	1,1,2-Trichloroethane	55	110
1,3-Dichlorobenzene *	54	108	Trichloroethene	55	110
1,4-Dichlorobenzene *	55	110	Trichlorofluoromethane	59	118
Dibromochloromethane	55	110	Vinyl Acetate	55	110
1,1-Dichloroethane	49	98	Vinyl Chloride	47	94
1,2-Dichloroethane	51	102	Xylenes (total)	161	107

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/24/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-Blank 1
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/22/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: 1/24/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-010 Dup
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/22/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B29C2-16

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____



Chris Duncan
 Assistant Laboratory Director

Date: _____

1/24/94

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

QA/QC FOR 01/23/94 (I)

Spike Recovery and RPD Summary Report - SOIL (ug/kg)

Method : C:\HPCHEM\1\METHODS\8240X.M
 Title : VOA 8240-624 TCL
 Response via : Continuing Calibration

Non-Spiked Sample: V0623.D 940122-027

Spike Sample	Spike Duplicate Sample
File ID : VS625.D	VS626.D
Sample : 940122-027 MS	940122-027 MSD
Acq Time: 23 Jan 94 6:22 pm	23 Jan 94 6:54 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
1,1-Dichloroethene	0.0	50	48	45	96	89	7	23	59-172
Benzene	0.0	50	49	47	97	95	3	14	84-117
Trichloroethene	0.0	50	47	46	93	91	2	15	80-106
Toluene	0.0	50	50	49	100	98	1	17	82-128
Chlorobenzene	0.0	50	49	48	99	97	2	18	76-117

Reviewed/Approved By: Jim P. Albrecht

Date: 1/24/94

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-LCS 3
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/22/94
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil

EPA Method 8240

ANALYTE	Results, ug/kg	% Recovery	ANALYTE	Results, ug/kg	% Recovery
Acetone	59	118	1,1-Dichloroethene	49	98
Acrolein	NA	NA	cis-1,2-Dichloroethene	45	90
Acrylonitrile	73	73	trans-1,2-Dichloroethene	44	88
Benzene	51	102	1,2-Dichloropropane	52	104
Bromodichloromethane	51	102	cis-1,3-Dichloropropene	51	102
Bromoform	58	116	trans-1,3-Dichloropropene	54	108
Bromomethane	46	92	Ethylbenzene	50	100
2-Butanone	55	110	2-Hexanone	47	94
Carbon Disulfide	47	94	Methylene Chloride	51	102
Carbon tetrachloride	48	96	4-Methyl-2-Pentanone	54	108
Chlorobenzene	50	100	Styrene	49	98
Chloroethane	45	96	1,1,2,2-Tetrachloroethane	61	122
2-Chloroethyl Vinyl Ether	NA	NA	Tetrachloroethene	49	98
Chloroform	44	88	Toluene	50	100
Chloromethane	44	88	1,1,1-Trichloroethane	49	98
1,2-Dichlorobenzene *	52	104	1,1,2-Trichloroethane	56	112
1,3-Dichlorobenzene *	50	100	Trichloroethene	50	100
1,4-Dichlorobenzene *	51	102	Trichlorofluoromethane	51	102
Dibromochloromethane	53	106	Vinyl Acetate	51	102
1,1-Dichloroethane	44	88	Vinyl Chloride	47	94
1,2-Dichloroethane	47	94	Xylenes (total)	150	100

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/24/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-Blank 3
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/22/94
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/24/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-027 Dup
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Analyzed: 01/23/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B33C1-14

EPA Method 8240

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

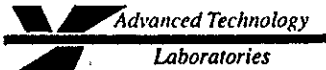
Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: _____

1/24/94

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



QA/QC FOR 01/23/94

Spike Recovery and RPD Summary Report - SOIL (ug/kg)

Method : C:\HPCHEM\1\METHODS\8240X.M
Title : VOA 8240-624 TCL
Response via : Continuing Calibration

Non-Spiked Sample: V0613.D 940122-020

Spike Sample	Spike Duplicate Sample
File ID : VS615.D	VS616.D
Sample : 940122-020 MS	940122-020 MSD
Acq Time: 23 Jan 94 1:00 pm	23 Jan 94 1:32 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
1,1-Dichloroethene	0.0	50	46	44	93	89	5	22	59-172
Benzene	0.0	50	49	46	98	91	7	14	84-117
Trichlorobenzene	0.0	50	48	44	95	88	8	15	80-106
Toluene	0.0	50	49	46	99	92	7	17	82-128
Chlorobenzene	0.0	50	50	46	99	92	8	18	76-117

Reviewed/Approved By: Jim P. Lechner

Date: 1/24/94

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell


Lab No.: 940122-LCS
 Date Sampled: 01/22/94
 Date Received: 01/22/94
 Date Extracted: 01/24/94
 Date Analyzed: 01/24/94
 Extraction Method: 3510
 Extraction Material: Methylene
 Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343k-01
 Matrix: Water

EPA Method 8080

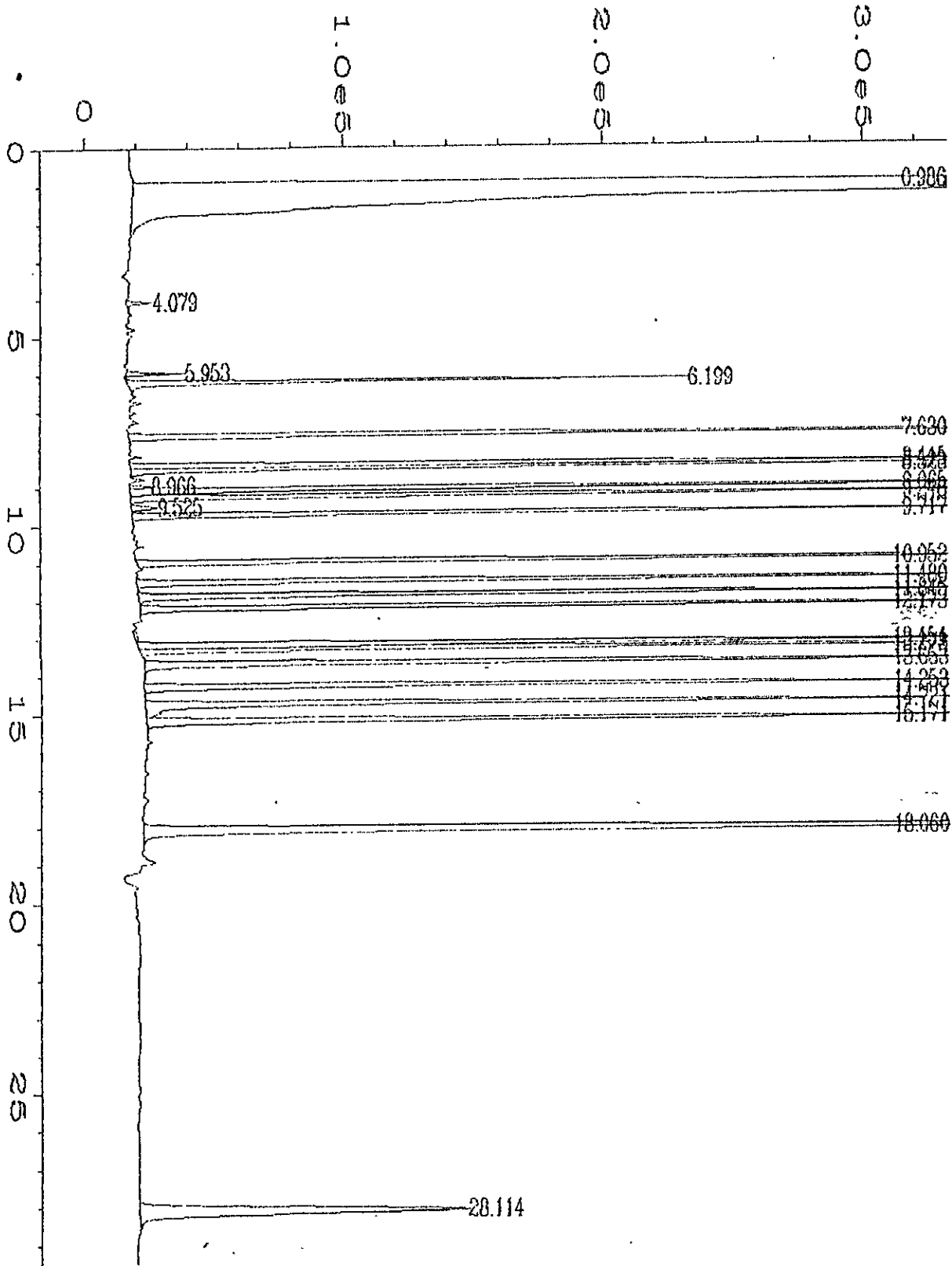
ANALYTE	Results, ug/kg	% Recovery	ANALYTE	Results, ug/kg	% Recovery
Alpha-BHC	1.4	70	Aroclor-1016	NA	NA
Gamma-BHC (Lindane)	1.5	75	Aroclor-1221	NA	NA
Beta-BHC	1.5	75	Aroclor-1232	NA	NA
Heptachlor	1.4	70	Aroclor-1242	NA	NA
Delta-BHC	1.6	80	Aroclor-1248	NA	NA
Aldrin	1.5	75	Aroclor-1254	2	100
Heptachlor Epoxide	1.6	80	Aroclor-1260	NA	NA
Endosulfan I	1.6	80	Aroclor-1262	NA	NA
4,4'-DDE	1.7	85			
Dieldrin	1.7	85			
Endrin	1.8	90			
4,4'-DDD	1.7	85			
Endosulfan II	1.7	85			
4,4'-DDT	1.8	90			
Endrin Aldehyde	1.5	75			
Endosulfan Sulfate	1.8	90			
Methoxychlor	7.3	92			
Chlordane	NA	NA			
Toxaphene	NA	NA			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor
 All analytes were spiked at 2.0 ug/l except methoxychlor which was spiked at 8.0 ug/l.
 Aroclor 1254 was spiked at 2.0 ug/l.

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/25/94

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

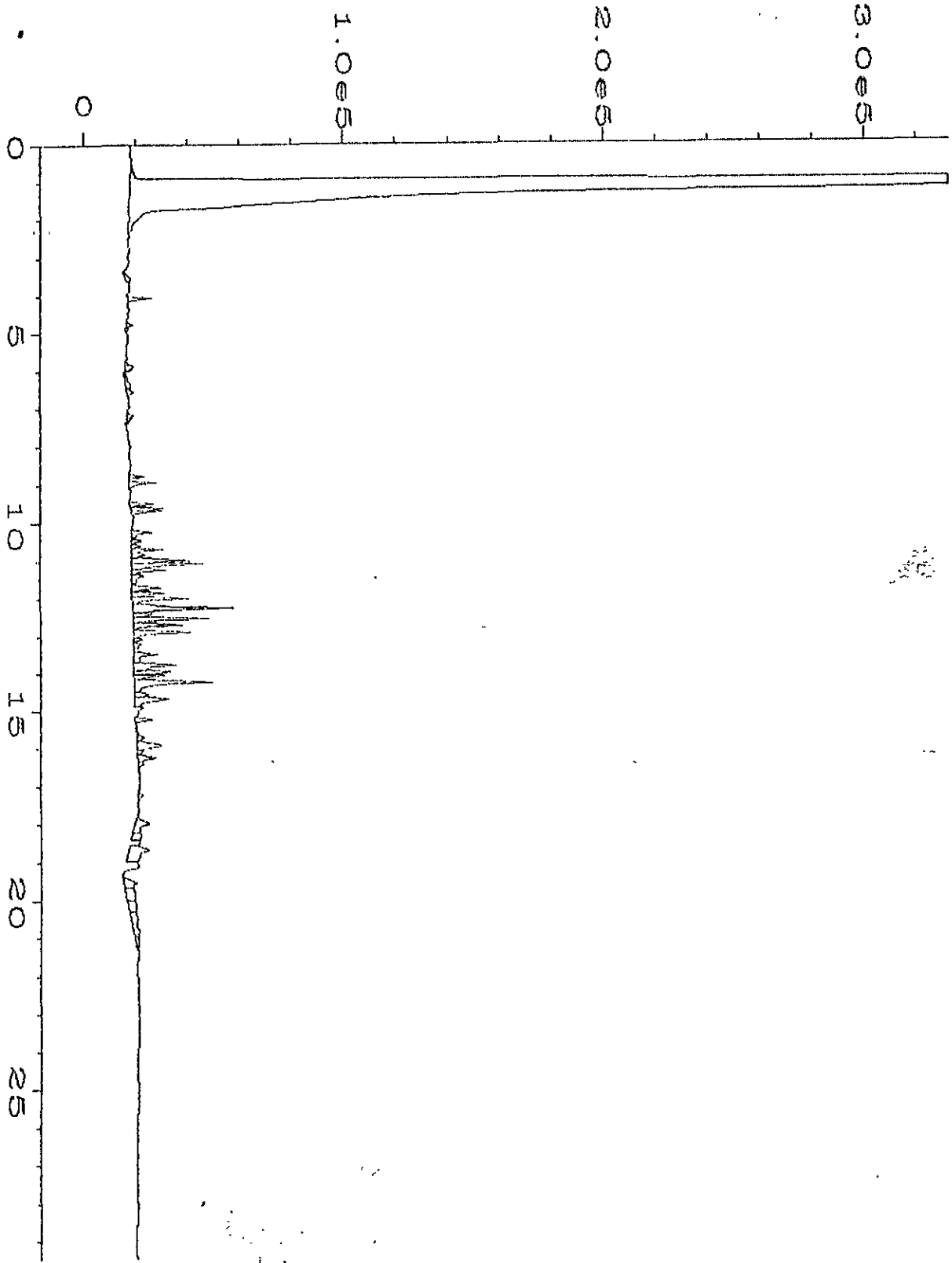


```

Data File Name      : C:\HPCHEM\1\DATA\01-24-94\014R0101.D
Operator           : BI
Instrument          : PCB GC
Sample Name        : 608 PEST LCS 1:5
Run Time Bar Code  :
Acquired on       : 24 Jan 94 03:13 PM
Report Created on  : 24 Jan 94 04:29 PM
Last Recalib on   : 24 JAN 94 10:57 AM
Multiplier        : 1

Page Number        : 1
Vial Number        : 14
Injection Number   : 1
Sequence Line      : 1
Instrument Method   : PCBPEST.MTH
Analysis Method    : PCBPEST.MTH
Sample Amount      : 0
ISTD Amount        :

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Data File Name	: C:\HPCHEM\1\DATA\01-24-94\017R0101.D	Page Number	: 1
Operator	: BI	Vial Number	: 17
Instrument	: PCB GC	Injection Number	: 1
Sample Name	: 608 PCB LCS 1:5	Sequence Line	: 1
Run Time Bar Code	:	Instrument Method	: PCBPEST.MTH
Acquired on	: 24 Jan 94 04:49 PM	Analysis Method	: PCB54.MTH
Report Created on	: 24 Jan 94 05:21 PM	Sample Amount	: 0
Last Recalib on	: 24 JAN 94 02:21 PM	ISTD Amount	:
Multiplier	: 1		

Spike Recovery and RPD Summary Report

Method: 200.7
 Analyst: CDR
 QA File: 4024
 Data File: 40124-1

Analysis Date: 01/24/94
 Digestion Date: 01/24/94
 Sample ID: Blank
 Matrix: Water
 Dilution Factor: (100/100)

ANALYTE	UNITS	LCS CONC	LCS RESULT	%REC	METH BLANK	SPL CONC*	SPK ADDED*	MS RESULT*	MSD RESULT*	%MS REC	%MSD REC	% RECLimit	RPD	RPD Limit	DLR
Arsenic	mg/L	5.0	5.6	112	ND	ND	5.0	6.1	6.0	122	120	70-130	2	0-30	0.01
Cadmium	mg/L	5.0	5.6	112	ND	ND	5.0	6.0	5.8	120	116	80-120	3	0-20	0.1
Chromium, T.	mg/L	5.0	5.5	110	ND	ND	5.0	6.0	5.8	120	116	80-120	3	0-20	0.4
Lead	mg/L	5.0	5.6	112	ND	ND	5.0	5.9	5.8	118	116	80-120	2	0-20	0.5
Zinc	mg/L	5.0	5.3	106	ND	ND	5.0	5.4	5.4	108	108	80-120	0	0-20	0.3

* Sample and spike concentrations must be multiplied by the dilution factor to obtain final result.

Reviewed/Approved by:

Tim L. Lebkuecher

Tim L. Lebkuecher
 QA Officer

Date:

1/25/94

Spike Recovery and RPD Summary Report

Method: 8080(PCB)
 Analyst: BI
 Data File: 024-WAT

Date: 01/24/94
 Sample ID: BLANK
 Matrix: WATER

ANALYTE	UNITS	LCS	MEIH BLANK	SPL CONC	SPK ADDED	MS RESULT	MSD RESULT	%MS REC	%MSD REC	%REC Limit	RPD	RPD Limit	DLR
PCB 1254	ug/L	NA	ND	ND	2.0	2.1	2.0	105	100	45-102	5	12	1

Approved by: Tim L. Lebkuecher
 Tim Lebkuecher
 QA/QC Officer

Date: 1/25/94

Spike Recovery and RPD Summary Report

Method: 8080(PEST)
 Analyst: BI
 Data File: 024-WAT

Date: 01/24/94
 Sample ID: BLANK
 Matrix: WATER

ANALYTE	UNITS	LCS	MEIH BLANK	SPL CONC	SPIKE ADDED	MS RESULT	MSD RESULT	%MS REC	%MSD REC	%REC Limit	RPD	RPD Limit	DLR
g-BHC	ug/L	NA	ND	ND	0.20	0.19	0.15	95	75	34-116	24	24	0.05
Heptachlor	ug/L	NA	ND	ND	0.20	0.13	0.13	65	65	27-134	0	28	0.05
Aldrin	ug/L	NA	ND	ND	0.20	0.15	0.15	75	75	39-149	0	17	0.05
Dieldrin	ug/L	NA	ND	ND	0.40	0.31	0.31	78	78	39-118	0	15	0.1
Endrin	ug/L	NA	ND	ND	0.40	0.37	0.36	93	90	37-121	3	21	0.1
4,4'-DDT	ug/L	NA	ND	ND	0.40	0.35	0.34	88	85	40-118	3	13	0.1

Approved by: Tim L. Lebkuecher
 Tim Lebkuecher
 QA/QC Officer

Date: 1/25/94

Ship To: A.T.L. Page 31 of 3
 Attn: Pur Project Name: Bay Bridge
Signal Hill, CA Project No.: 153 DT
 Site Location: Oakland
 Date: 1/20/94

CHAIN OF CUSTODY RECORD

Analysis

*Caltrans TO
04-04343K-01*

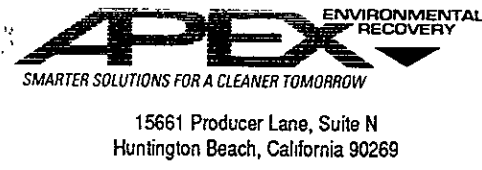
B240

Boring/Well No.	Sample No.	Depth	Date	Time	Sample Type			Comp.	Grab.	Sample Containers				Remarks
					Water	Solid	Other			Vol.	No.	Type	Pros	
B24C2	7	7'	1/20			X				1			X	
B24C2	11	11'				X				1			X	
B25C2	3	3'				X				1			X	
B26C2	0	0'				X				1			X	
B27C2	3	3'				X				1			X	
B27C2	7	7'				X				1			X	
B27C2	11	11'				X				1			X	
B29C2	0	0'				X				1			X	
B29C2	3	3'				X				1			X	
B29C2	16	16'				X				1			X	
B30C1	0	0'				X				1			X	
B30C1	3	3'				X				1			X	
B30C2	0	0'				X				1			X	

Total Number of Samples Shipped: 31 Shipper's Signature: [Signature]

Signature	Company	Date	Time
Relinquished by: <u>[Signature]</u>	<u>APEX</u>	<u>1-21-94</u>	
Received by: <u>Rathay Ruff</u>	<u>United Caines-</u>	<u>1-21-94</u>	
Relinquished by:			
Received by: <u>[Signature]</u>	<u>ATL</u>	<u>1-22-94</u>	<u>13:29</u>
Relinquished by:			
Received by:			

Special Instructions / Shipment / Handling / Storage Requirements:
Supply Sample Analysis Chromatograph



Ship To: A.T.L
 Attn: Puri
Signal Hill, CA

Page 2 of 3
 Project Name: Bay Bridge
 Project No.: 153 DT
 Site Location: Oakland
 Date: 1/20/94

CHAIN OF CUSTODY RECORD

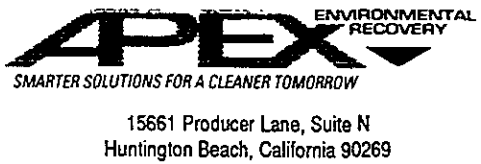
Analysis
8240
Caltrans TO
04-04343K-01

Boring/Well No.	Sample No.	Depth	Date	Time	Sample Type			Comp.	Grab.	Sample Containers			Remarks
					Water	Solid	Other			Vol.	No.	Type	
B30C2	3	3'	1/20			X				1			X
B30C2	16	16'				X				1			X
B31C1	0	0'				X				1			X
B31C1	3	3'				X				1			X
B31C1	9	9'				X				1			X
B31C1	15	15'				X				1			X
B31C2	0	0'				X				1			X
B31C2	3	3'				X				1			X
B31C2	15	15'				X				1			X
B32C1	0	0'				X				1			X
B32C1	3	3'				X				1			X
B32C1	9	9'				X				1			X
B32C1	15	15'				X				1			X

Total Number of Samples Shipped: _____ Shipper's Signature: ATL

Signature	Company	Date	Time
Relinquished by: <u>ATL</u>	<u>APEX</u>	<u>1-21-94</u>	
Received by: <u>Kathy Dell</u>	<u>United Carriers</u>	<u>1-21-94</u>	
Relinquished by:			
Received by: <u>Cl. D.</u>	<u>ATL</u>	<u>1-22-94</u>	<u>13:29</u>
Relinquished by:			
Received by:			

Special Instructions / Shipment / Handling / Storage Requirements:
Supply Sample Analysis Chromatograph



Ship To: A.T.L.
 Attn: Puri
Signal Hill, CA

Page 3 of 3
 Project Name: Bay Bridge
 Project No.: 153 DT
 Site Location: Oakland
 Date: 1, 20, 94

CHAIN OF CUSTODY RECORD

Analysis		Remarks
Vol.	No.	
X	1	Caltrans TO 04-04343K-01
X	4	

Boring/Well No.	Sample No.	Depth	Date	Time	Sample Type			Comp.	Grab.	Sample Containers			
					Water	Solid	Other			Vol.	No.	Type	Pros
B33C1	14	14'	1/20		X					1			
DECON	1		1/20		X					4			

Analysis		Remarks
Vol.	No.	
X	1	Decon H ₂ O 4-1/2 ltr. Bottl. (6 metals only)
X	4	

Total Number of Samples Shipped:

Shipper's Signature: [Signature]

Signature	Company	Date	Time
Relinquished by: <u>[Signature]</u>	APEX	1-21-94	
Received by: <u>[Signature]</u>	United Couriers	1-21-94	
Relinquished by:			
Received by: <u>[Signature]</u>	ATL	1-22-94	13:29
Relinquished by:			
Received by:			

Special Instructions / Shipment / Handling / Storage Requirements:
Supply Sample Analysis Chromatographs
* Selected Metals - (Pb, Zn, As, Cr, Cd) only



15661 Producer Lane, Suite N
 Huntington Beach, California 90269

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-008
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/12/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B24C1-0

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	1050	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	737	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	643	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: 1/12/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B24C1-0

Lab No.: 940104-009
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/12/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 2

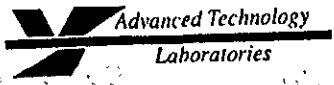
EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	660	3-Nitroaniline	ND	3300
bis(2-Chloroethyl)ether	ND	660	Acenaphthene	ND	660
2-Chlorophenol	ND	660	2,4-Dinitrophenol	ND	3300
1,3-Dichlorobenzene	ND	660	Dibenzofuran	ND	660
1,4-Dichlorobenzene	ND	660	4-Nitrophenol	ND	3300
Benzyl Alcohol	ND	1320	2,4-Dinitrotoluene	ND	660
1,2-Dichlorobenzene	ND	660	Fluorene	ND	660
2-Methylphenol	ND	660	Diethylphthalate	ND	660
bis(2-chloroisopropyl)ether	ND	660	4-Chlorophenyl-phenyl ether	ND	660
n-Nitroso-di-n-propylamine	ND	660	4-Nitroaniline	ND	3300
4-Methylphenol	ND	660	4,6-Dinitro-2-methylphenol	ND	3300
Hexachloroethane	ND	660	n-Nitrosodiphenylamine	ND	660
Nitrobenzene	ND	660	4-Bromophenyl-phenyl ether	ND	660
Isophorone	ND	660	Hexachlorobenzene	ND	660
2-Nitrophenol	ND	660	Pentachlorophenol	ND	3300
2,4-Dimethylphenol	ND	660	Phenanthrene	ND	660
bis(2-Chloroethoxy)methane	ND	660	Anthracene	ND	660
2,4-Dichlorophenol	ND	660	Di-n-butylphthalate	ND	660
Benzoic Acid	ND	3300	Fluoranthene	ND	660
1,2,4-Trichlorobenzene	ND	660	Pyrene	ND	660
Naphthalene	ND	660	Butylbenzylphthalate	ND	660
4-Chloroaniline	ND	1320	Benzo[a]anthracene	ND	660
Hexachlorobutadiene	ND	660	3,3'-Dichlorobenzidine	ND	1320
4-Chloro-3-methylphenol	ND	1320	Chrysene	ND	660
2-Methylnaphthalene	ND	660	bis(2-Ethylhexyl)phthalate	ND	660
Hexachlorocyclopentadiene	ND	1320	Di-n-octylphthalate	ND	660
2,4,6-Trichlorophenol	ND	660	Benzo[b]fluoranthene	ND	660
2,4,5-Trichlorophenol	ND	1000	Benzo[k]fluoranthene	ND	660
2-Chloronaphthalene	ND	660	Benzo[a]pyrene	ND	660
2-Nitroaniline	ND	3300	Indeno[1,2,3-cd]pyrene	ND	660
Dimethylphthalate	ND	660	Dibenz[a,h]anthracene	ND	660
Acenaphthylene	ND	660	Benzo[g,h,i]perylene	ND	660
2,6-Dinitrotoluene	ND	660			

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

Reviewed/Approved By:  Date: 1/17/94
 Chris Duncan
 Assistant Laboratory Director

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




Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell
 Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B24C1-3

Lab No.: 940104-010
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/06/94
 Date Analyzed: 01/07/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 2

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	660	3-Nitroaniline	ND	3300
bis(2-Chloroethyl)ether	ND	660	Acenaphthene	ND	660
2-Chlorophenol	ND	660	2,4-Dinitrophenol	ND	3300
1,3-Dichlorobenzene	ND	660	Dibenzofuran	ND	660
1,4-Dichlorobenzene	ND	660	4-Nitrophenol	ND	3300
Benzyl Alcohol	ND	1320	2,4-Dinitrotoluene	ND	660
1,2-Dichlorobenzene	ND	660	Fluorene	ND	660
2-Methylphenol	ND	660	Diethylphthalate	ND	660
bis(2-chloroisopropyl)ether	ND	660	4-Chlorophenyl-phenyl ether	ND	660
n-Nitroso-di-n-propylamine	ND	660	4-Nitroaniline	ND	3300
4-Methylphenol	ND	660	4,6-Dinitro-2-methylphenol	ND	3300
Hexachloroethane	ND	660	n-Nitrosodiphenylamine	ND	660
Nitrobenzene	ND	660	4-Bromophenyl-phenyl ether	ND	660
Isophorone	ND	660	Hexachlorobenzene	ND	660
2-Nitrophenol	ND	660	Pentachlorophenol	ND	3300
2,4-Dimethylphenol	ND	660	Phenanthrene	ND	660
bis(2-Chloroethoxy)methane	ND	660	Anthracene	ND	660
2,4-Dichlorophenol	ND	660	Di-n-butylphthalate	ND	660
Benzoic Acid	ND	3300	Fluoranthene	ND	660
1,2,4-Trichlorobenzene	ND	660	Pyrene	ND	660
Naphthalene	ND	660	Butylbenzylphthalate	ND	660
4-Chloroaniline	ND	1320	Benzo[a]anthracene	ND	660
Hexachlorobutadiene	ND	660	3,3'-Dichlorobenzidine	ND	1320
4-Chloro-3-methylphenol	ND	1320	Chrysene	ND	660
2-Methylnaphthalene	ND	660	bis(2-Ethylhexyl)phthalate	ND	660
Hexachlorocyclopentadiene	ND	1320	Di-n-octylphthalate	ND	660
2,4,6-Trichlorophenol	ND	660	Benzo[b]fluoranthene	ND	660
2,4,5-Trichlorophenol	ND	1000	Benzo[k]fluoranthene	ND	660
2-Chloronaphthalene	ND	660	Benzo[a]pyrene	ND	660
2-Nitroaniline	ND	3300	Indeno[1,2,3-cd]pyrene	ND	660
Dimethylphthalate	ND	660	Dibenz[a,h]anthracene	ND	660
Acenaphthylene	ND	660	Benzo[g,h,i]perylene	ND	660
2,6-Dinitrotoluene	ND	660			

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

Reviewed/Approved By:  Date: 1/7/94
 Chris Duncan
 Assistant Laboratory Director

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-011
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/12/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 4

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B25C1-0

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	1320	3-Nitroaniline	ND	6600
bis(2-Chloroethyl)ether	ND	1320	Acenaphthene	ND	1320
2-Chlorophenol	ND	1320	2,4-Dinitrophenol	ND	6600
1,3-Dichlorobenzene	ND	1320	Dibenzofuran	ND	1320
1,4-Dichlorobenzene	ND	1320	4-Nitrophenol	ND	6600
Benzyl Alcohol	ND	2640	2,4-Dinitrotoluene	ND	1320
1,2-Dichlorobenzene	ND	1320	Fluorene	ND	1320
2-Methylphenol	ND	1320	Diethylphthalate	ND	1320
bis(2-chloroisopropyl)ether	ND	1320	4-Chlorophenyl-phenyl ether	ND	1320
n-Nitroso-di-n-propylamine	ND	1320	4-Nitroaniline	ND	6600
4-Methylphenol	ND	1320	4,6-Dinitro-2-methylphenol	ND	6600
Hexachloroethane	ND	1320	n-Nitrosodiphenylamine	ND	1320
Nitrobenzene	ND	1320	4-Bromophenyl-phenyl ether	ND	1320
Isophorone	ND	1320	Hexachlorobenzene	ND	1320
2-Nitrophenol	ND	1320	Pentachlorophenol	ND	6600
2,4-Dimethylphenol	ND	1320	Phenanthrene	ND	1320
bis(2-Chloroethoxy)methane	ND	1320	Anthracene	ND	1320
2,4-Dichlorophenol	ND	1320	Di-n-butylphthalate	ND	1320
Benzoic Acid	ND	6600	Fluoranthene	ND	1320
1,2,4-Trichlorobenzene	ND	1320	Pyrene	ND	1320
Naphthalene	ND	1320	Butylbenzylphthalate	ND	1320
4-Chloroaniline	ND	2640	Benzo[a]anthracene	ND	1320
Hexachlorobutadiene	ND	1320	3,3'-Dichlorobenzidine	ND	2640
4-Chloro-3-methylphenol	ND	2640	Chrysene	ND	1320
2-Methylnaphthalene	ND	1320	bis(2-Ethylhexyl)phthalate	ND	1320
Hexachlorocyclopentadiene	ND	2640	Di-n-octylphthalate	ND	1320
2,4,6-Trichlorophenol	ND	1320	Benzo[b]fluoranthene	ND	1320
2,4,5-Trichlorophenol	ND	2000	Benzo[k]fluoranthene	ND	1320
2-Chloronaphthalene	ND	1320	Benzo[a]pyrene	ND	1320
2-Nitroaniline	ND	6600	Indeno[1,2,3-cd]pyrene	ND	1320
Dimethylphthalate	ND	1320	Dibenz[a,h.]anthracene	ND	1320
Acenaphthylene	ND	1320	Benzo[g,h,i]perylene	ND	1320
2,6-Dinitrotoluene	ND	1320			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B25C1-0

Lab No.: 940104-012
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/12/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 4

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	1320	3-Nitroaniline	ND	6600
bis(2-Chloroethyl)ether	ND	1320	Acenaphthene	ND	1320
2-Chlorophenol	ND	1320	2,4-Dinitrophenol	ND	6600
1,3-Dichlorobenzene	ND	1320	Dibenzofuran	ND	1320
1,4-Dichlorobenzene	ND	1320	4-Nitrophenol	ND	6600
Benzyl Alcohol	ND	2640	2,4-Dinitrotoluene	ND	1320
1,2-Dichlorobenzene	ND	1320	Fluorene	ND	1320
2-Methylphenol	ND	1320	Diethylphthalate	ND	1320
bis(2-chloroisopropyl)ether	ND	1320	4-Chlorophenyl-phenyl ether	ND	1320
n-Nitroso-di-n-propylamine	ND	1320	4-Nitroaniline	ND	6600
4-Methylphenol	ND	1320	4,6-Dinitro-2-methylphenol	ND	6600
Hexachloroethane	ND	1320	n-Nitrosodiphenylamine	ND	1320
Nitrobenzene	ND	1320	4-Bromophenyl-phenyl ether	ND	1320
Isophorone	ND	1320	Hexachlorobenzene	ND	1320
2-Nitrophenol	ND	1320	Pentachlorophenol	ND	6600
2,4-Dimethylphenol	ND	1320	Phenanthrene	ND	1320
bis(2-Chloroethoxy)methane	ND	1320	Anthracene	ND	1320
2,4-Dichlorophenol	ND	1320	Di-n-butylphthalate	ND	1320
Benzoic Acid	ND	6600	Fluoranthene	ND	1320
1,2,4-Trichlorobenzene	ND	1320	Pyrene	ND	1320
Naphthalene	ND	1320	Butylbenzylphthalate	ND	1320
4-Chloroaniline	ND	2640	Benzo[a]anthracene	ND	1320
Hexachlorobutadiene	ND	1320	3,3'-Dichlorobenzidine	ND	2640
4-Chloro-3-methylphenol	ND	2640	Chrysene	ND	1320
2-Methylnaphthalene	ND	1320	bis(2-Ethylhexyl)phthalate	ND	1320
Hexachlorocyclopentadiene	ND	2640	Di-n-octylphthalate	ND	1320
2,4,6-Trichlorophenol	ND	1320	Benzo[b]fluoranthene	ND	1320
2,4,5-Trichlorophenol	ND	2000	Benzo[k]fluoranthene	ND	1320
2-Chloronaphthalene	ND	1320	Benzo[a]pyrene	ND	1320
2-Nitroaniline	ND	6600	Indeno[1,2,3-cd]pyrene	ND	1320
Dimethylphthalate	ND	1320	Dibenz[a,h]anthracene	ND	1320
Acenaphthylene	ND	1320	Benzo[g,h,i]perylene	ND	1320
2,6-Dinitrotoluene	ND	1320			

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

Reviewed/Approved By: _____



Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell
 Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B25C1-7

Lab No.: 940104-013
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/12/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 4

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	1320	3-Nitroaniline	ND	6600
bis(2-Chloroethyl)ether	ND	1320	Acenaphthene	ND	1320
2-Chlorophenol	ND	1320	2,4-Dinitrophenol	ND	6600
1,3-Dichlorobenzene	ND	1320	Dibenzofuran	ND	1320
1,4-Dichlorobenzene	ND	1320	4-Nitrophenol	ND	6600
Benzyl Alcohol	ND	2640	2,4-Dinitrotoluene	ND	1320
1,2-Dichlorobenzene	ND	1320	Fluorene	ND	1320
2-Methylphenol	ND	1320	Diethylphthalate	ND	1320
bis(2-chloroisopropyl)ether	ND	1320	4-Chlorophenyl-phenyl ether	ND	1320
n-Nitroso-di-n-propylamine	ND	1320	4-Nitroaniline	ND	6600
4-Methylphenol	ND	1320	4,6-Dinitro-2-methylphenol	ND	6600
Hexachloroethane	ND	1320	n-Nitrosodiphenylamine	ND	1320
Nitrobenzene	ND	1320	4-Bromophenyl-phenyl ether	ND	1320
Isophorone	ND	1320	Hexachlorobenzene	ND	1320
2-Nitrophenol	ND	1320	Pentachlorophenol	ND	6600
2,4-Dimethylphenol	ND	1320	Phenanthrene	ND	1320
bis(2-Chloroethoxy)methane	ND	1320	Anthracene	ND	1320
2,4-Dichlorophenol	ND	1320	Di-n-butylphthalate	ND	1320
Benzoic Acid	ND	6600	Fluoranthene	ND	1320
1,2,4-Trichlorobenzene	ND	1320	Pyrene	ND	1320
Naphthalene	ND	1320	Butylbenzylphthalate	ND	1320
4-Chloroaniline	ND	2640	Benzo[a]anthracene	ND	1320
Hexachlorobutadiene	ND	1320	3,3'-Dichlorobenzidine	ND	2640
4-Chloro-3-methylphenol	ND	2640	Chrysene	ND	1320
2-Methylnaphthalene	ND	1320	bis(2-Ethylhexyl)phthalate	ND	1320
Hexachlorocyclopentadiene	ND	2640	Di-n-octylphthalate	ND	1320
2,4,6-Trichlorophenol	ND	1320	Benzo[b]fluoranthene	ND	1320
2,4,5-Trichlorophenol	ND	2000	Benzo[k]fluoranthene	ND	1320
2-Chloronaphthalene	ND	1320	Benzo[a]pyrene	ND	1320
2-Nitroaniline	ND	6600	Indeno[1,2,3-cd]pyrene	ND	1320
Dimethylphthalate	ND	1320	Dibenz[a,h]anthracene	ND	1320
Acenaphthylene	ND	1320	Benzo[g,h,i]perylene	ND	1320
2,6-Dinitrotoluene	ND	1320			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell
 Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B26C1-3

Lab No.: 940104-015
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/06/94
 Date Analyzed: 01/07/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 2

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	660	3-Nitroaniline	ND	3300
bis(2-Chloroethyl)ether	ND	660	Acenaphthene	ND	660
2-Chlorophenol	ND	660	2,4-Dinitrophenol	ND	3300
1,3-Dichlorobenzene	ND	660	Dibenzofuran	ND	660
1,4-Dichlorobenzene	ND	660	4-Nitrophenol	ND	3300
Benzyl Alcohol	ND	1320	2,4-Dinitrotoluene	ND	660
1,2-Dichlorobenzene	ND	660	Fluorene	ND	660
2-Methylphenol	ND	660	Diethylphthalate	ND	660
bis(2-chloroisopropyl)ether	ND	660	4-Chlorophenyl-phenyl ether	ND	660
n-Nitroso-di-n-propylamine	ND	660	4-Nitroaniline	ND	3300
4-Methylphenol	ND	660	4,6-Dinitro-2-methylphenol	ND	3300
Hexachloroethane	ND	660	n-Nitrosodiphenylamine	ND	660
Nitrobenzene	ND	660	4-Bromophenyl-phenyl ether	ND	660
Isophorone	ND	660	Hexachlorobenzene	ND	660
2-Nitrophenol	ND	660	Pentachlorophenol	ND	3300
2,4-Dimethylphenol	ND	660	Phenanthrene	ND	660
bis(2-Chloroethoxy)methane	ND	660	Anthracene	ND	660
2,4-Dichlorophenol	ND	660	Di-n-butylphthalate	ND	660
Benzic Acid	ND	3300	Fluoranthene	ND	660
1,2,4-Trichlorobenzene	ND	660	Pyrene	ND	660
Naphthalene	ND	660	Butylbenzylphthalate	ND	660
4-Chloroaniline	ND	1320	Benzo[a]anthracene	ND	660
Hexachlorobutadiene	ND	660	3,3'-Dichlorobenzidine	ND	1320
4-Chloro-3-methylphenol	ND	1320	Chrysene	ND	660
2-Methylnaphthalene	ND	660	bis(2-Ethylhexyl)phthalate	ND	660
Hexachlorocyclopentadiene	ND	1320	Di-n-octylphthalate	ND	660
2,4,6-Trichlorophenol	ND	660	Benzo[b]fluoranthene	ND	660
2,4,5-Trichlorophenol	ND	1000	Benzo[k]fluoranthene	ND	660
2-Chloronaphthalene	ND	660	Benzo[a]pyrene	ND	660
2-Nitroaniline	ND	3300	Indeno[1,2,3-cd]pyrene	ND	660
Dimethylphthalate	ND	660	Dibenz[a,h]anthracene	ND	660
Acenaphthylene	ND	660	Benzo[g,h,i]perylene	ND	660
2,6-Dinitrotoluene	ND	660			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/7/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell
 Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B27C1-0

Lab No.: 940104-016
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/12/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 4

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	1320	3-Nitroaniline	ND	6600
bis(2-Chloroethyl)ether	ND	1320	Acenaphthene	ND	1320
2-Chlorophenol	ND	1320	2,4-Dinitrophenol	ND	6600
1,3-Dichlorobenzene	ND	1320	Dibenzofuran	ND	1320
1,4-Dichlorobenzene	ND	1320	4-Nitrophenol	ND	6600
Benzyl Alcohol	ND	2640	2,4-Dinitrotoluene	ND	1320
1,2-Dichlorobenzene	ND	1320	Fluorene	ND	1320
2-Methylphenol	ND	1320	Diethylphthalate	ND	1320
bis(2-chloroisopropyl)ether	ND	1320	4-Chlorophenyl-phenyl ether	ND	1320
n-Nitroso-di-n-propylamine	ND	1320	4-Nitroaniline	ND	6600
4-Methylphenol	ND	1320	4,6-Dinitro-2-methylphenol	ND	6600
Hexachloroethane	ND	1320	n-Nitrosodiphenylamine	ND	1320
Nitrobenzene	ND	1320	4-Bromophenyl-phenyl ether	ND	1320
Isophorone	ND	1320	Hexachlorobenzene	ND	1320
2-Nitrophenol	ND	1320	Pentachlorophenol	ND	6600
2,4-Dimethylphenol	ND	1320	Phenanthrene	ND	1320
bis(2-Chloroethoxy)methane	ND	1320	Anthracene	ND	1320
2,4-Dichlorophenol	ND	1320	Di-n-butylphthalate	ND	1320
Benzoic Acid	ND	6600	Fluoranthene	ND	1320
1,2,4-Trichlorobenzene	ND	1320	Pyrene	ND	1320
Naphthalene	ND	1320	Butylbenzylphthalate	ND	1320
4-Chloroaniline	ND	2640	Benzo[a]anthracene	ND	1320
Hexachlorobutadiene	ND	1320	3,3'-Dichlorobenzidine	ND	2640
4-Chloro-3-methylphenol	ND	2640	Chrysene	ND	1320
2-Methylnaphthalene	ND	1320	bis(2-Ethylhexyl)phthalate	ND	1320
Hexachlorocyclopentadiene	ND	2640	Di-n-octylphthalate	ND	1320
2,4,6-Trichlorophenol	ND	1320	Benzo[b]fluoranthene	ND	1320
2,4,5-Trichlorophenol	ND	2000	Benzo[k]fluoranthene	ND	1320
2-Chloronaphthalene	ND	1320	Benzo[a]pyrene	ND	1320
2-Nitroaniline	ND	6600	Indeno[1,2,3-cd]pyrene	ND	1320
Dimethylphthalate	ND	1320	Dibenz[a,h]anthracene	ND	1320
Acenaphthylene	ND	1320	Benzo[g,h,i]perylene	ND	1320
2,6-Dinitrotoluene	ND	1320			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell
 Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B27C1-5

Lab No.: 940104-017
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/06/94
 Date Analyzed: 01/07/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 50

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	16500	3-Nitroaniline	ND	82500
bis(2-Chloroethyl)ether	ND	16500	Acenaphthene	ND	16500
2-Chlorophenol	ND	16500	2,4-Dinitrophenol	ND	82500
1,3-Dichlorobenzene	ND	16500	Dibenzofuran	ND	16500
1,4-Dichlorobenzene	ND	16500	4-Nitrophenol	ND	82500
Benzyl Alcohol	ND	33000	2,4-Dinitrotoluene	ND	16500
1,2-Dichlorobenzene	ND	16500	Fluorene	ND	16500
2-Methylphenol	ND	16500	Diethylphthalate	ND	16500
bis(2-chloroisopropyl)ether	ND	16500	4-Chlorophenyl-phenyl ether	ND	16500
n-Nitroso-di-n-propylamine	ND	16500	4-Nitroaniline	ND	82500
4-Methylphenol	ND	16500	4,6-Dinitro-2-methylphenol	ND	82500
Hexachloroethane	ND	16500	n-Nitrosodiphenylamine	ND	16500
Nitrobenzene	ND	16500	4-Bromophenyl-phenyl ether	ND	16500
Isophorone	ND	16500	Hexachlorobenzene	ND	16500
2-Nitrophenol	ND	16500	Pentachlorophenol	ND	82500
2,4-Dimethylphenol	ND	16500	Phenanthrene	ND	16500
bis(2-Chloroethoxy)methane	ND	16500	Anthracene	ND	16500
2,4-Dichlorophenol	ND	16500	Di-n-butylphthalate	ND	16500
Benzoic Acid	ND	82500	Fluoranthene	ND	16500
1,2,4-Trichlorobenzene	ND	16500	Pyrene	ND	16500
Naphthalene	ND	16500	Butylbenzylphthalate	ND	16500
4-Chloroaniline	ND	33000	Benzo[a]anthracene	ND	16500
Hexachlorobutadiene	ND	16500	3,3'-Dichlorobenzidine	ND	33000
4-Chloro-3-methylphenol	ND	33000	Chrysene	ND	16500
2-Methylnaphthalene	ND	16500	bis(2-Ethylhexyl)phthalate	ND	16500
Hexachlorocyclopentadiene	ND	33000	Di-n-octylphthalate	ND	16500
2,4,6-Trichlorophenol	ND	16500	Benzo[b]fluoranthene	ND	16500
2,4,5-Trichlorophenol	ND	25000	Benzo[k]fluoranthene	ND	16500
2-Chloronaphthalene	ND	16500	Benzo[a]pyrene	ND	16500
2-Nitroaniline	ND	82500	Indeno[1,2,3-cd]pyrene	ND	16500
Dimethylphthalate	ND	16500	Dibenz[a,h.]anthracene	ND	16500
Acenaphthylene	ND	16500	Benzo[g,h,i]perylene	ND	16500
2,6-Dinitrotoluene	ND	16500			

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

Reviewed/Approved By: Chris Duncan Date: 1/17/94
 Chris Duncan
 Assistant Laboratory Director

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell
 Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B29C1-0

Lab No.: 940104-019 Dup
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/12/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 2

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	660	3-Nitroaniline	ND	3300
bis(2-Chloroethyl)ether	ND	660	Acenaphthene	ND	660
2-Chlorophenol	ND	660	2,4-Dinitrophenol	ND	3300
1,3-Dichlorobenzene	ND	660	Dibenzofuran	ND	660
1,4-Dichlorobenzene	ND	660	4-Nitrophenol	ND	3300
Benzyl Alcohol	ND	1320	2,4-Dinitrotoluene	ND	660
1,2-Dichlorobenzene	ND	660	Fluorene	ND	660
2-Methylphenol	ND	660	Diethylphthalate	ND	660
bis(2-chloroisopropyl)ether	ND	660	4-Chlorophenyl-phenyl ether	ND	660
n-Nitroso-di-n-propylamine	ND	660	4-Nitroaniline	ND	3300
4-Methylphenol	ND	660	4,6-Dinitro-2-methylphenol	ND	3300
Hexachloroethane	ND	660	n-Nitrosodiphenylamine	ND	660
Nitrobenzene	ND	660	4-Bromophenyl-phenyl ether	ND	660
Isophorone	ND	660	Hexachlorobenzene	ND	660
2-Nitrophenol	ND	660	Pentachlorophenol	ND	3300
2,4-Dimethylphenol	ND	660	Phenanthrene	ND	660
bis(2-Chloroethoxy)methane	ND	660	Anthracene	ND	660
2,4-Dichlorophenol	ND	660	Di-n-butylphthalate	ND	660
Benzoic Acid	ND	3300	Fluoranthene	ND	660
1,2,4-Trichlorobenzene	ND	660	Pyrene	ND	660
Naphthalene	ND	660	Butylbenzylphthalate	ND	660
4-Chloroaniline	ND	1320	Benzo[a]anthracene	ND	660
Hexachlorobutadiene	ND	660	3,3'-Dichlorobenzidine	ND	1320
4-Chloro-3-methylphenol	ND	1320	Chrysene	ND	660
2-Methylnaphthalene	ND	660	bis(2-Ethylhexyl)phthalate	ND	660
Hexachlorocyclopentadiene	ND	1320	Di-n-octylphthalate	ND	660
2,4,6-Trichlorophenol	ND	660	Benzo[b]fluoranthene	ND	660
2,4,5-Trichlorophenol	ND	1000	Benzo[k]fluoranthene	ND	660
2-Chloronaphthalene	ND	660	Benzo[a]pyrene	ND	660
2-Nitroaniline	ND	3300	Indeno[1,2,3-cd]pyrene	ND	660
Dimethylphthalate	ND	660	Dibenz[a,h.]anthracene	ND	660
Acenaphthylene	ND	660	Benzo[g,h,i]perylene	ND	660
2,6-Dinitrotoluene	ND	660			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-018
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/12/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 10


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B27C1-8

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	3300	3-Nitroaniline	ND	16500
bis(2-Chloroethyl)ether	ND	3300	Acenaphthene	ND	3300
2-Chlorophenol	ND	3300	2,4-Dinitrophenol	ND	16500
1,3-Dichlorobenzene	ND	3300	Dibenzofuran	ND	3300
1,4-Dichlorobenzene	ND	3300	4-Nitrophenol	ND	16500
Benzyl Alcohol	ND	6600	2,4-Dinitrotoluene	ND	3300
1,2-Dichlorobenzene	ND	3300	Fluorene	ND	3300
2-Methylphenol	ND	3300	Diethylphthalate	ND	3300
bis(2-chloroisopropyl)ether	ND	3300	4-Chlorophenyl-phenyl ether	ND	3300
n-Nitroso-di-n-propylamine	ND	3300	4-Nitroaniline	ND	16500
4-Methylphenol	ND	3300	4,6-Dinitro-2-methylphenol	ND	16500
Hexachloroethane	ND	3300	n-Nitrosodiphenylamine	ND	3300
Nitrobenzene	ND	3300	4-Bromophenyl-phenyl ether	ND	3300
Isophorone	ND	3300	Hexachlorobenzene	ND	3300
2-Nitrophenol	ND	3300	Pentachlorophenol	ND	16500
2,4-Dimethylphenol	ND	3300	Phenanthrene	ND	3300
bis(2-Chloroethoxy)methane	ND	3300	Anthracene	ND	3300
2,4-Dichlorophenol	ND	3300	Di-n-butylphthalate	ND	3300
Benzoic Acid	ND	16500	Fluoranthene	ND	3300
1,2,4-Trichlorobenzene	ND	3300	Pyrene	ND	3300
Naphthalene	ND	3300	Butylbenzylphthalate	ND	3300
4-Chloroaniline	ND	6600	Benzo[a]anthracene	ND	3300
Hexachlorobutadiene	ND	3300	3,3'-Dichlorobenzidine	ND	6600
4-Chloro-3-methylphenol	ND	6600	Chrysene	ND	3300
2-Methylnaphthalene	ND	3300	bis(2-Ethylhexyl)phthalate	ND	3300
Hexachlorocyclopentadiene	ND	6600	Di-n-octylphthalate	ND	3300
2,4,6-Trichlorophenol	ND	3300	Benzo[b]fluoranthene	ND	3300
2,4,5-Trichlorophenol	ND	5000	Benzo[k]fluoranthene	ND	3300
2-Chloronaphthalene	ND	3300	Benzo[a]pyrene	ND	3300
2-Nitroaniline	ND	16500	Indeno[1,2,3-cd]pyrene	ND	3300
Dimethylphthalate	ND	3300	Dibenz[a,h]anthracene	ND	3300
Acenaphthylene	ND	3300	Benzo[g,h,i]perylene	ND	3300
2,6-Dinitrotoluene	ND	3300			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell
 Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B29C1-0

Lab No.: 940104-019
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/12/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 2

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	660	3-Nitroaniline	ND	3300
bis(2-Chloroethyl)ether	ND	660	Acenaphthene	ND	660
2-Chlorophenol	ND	660	2,4-Dinitrophenol	ND	3300
1,3-Dichlorobenzene	ND	660	Dibenzofuran	ND	660
1,4-Dichlorobenzene	ND	660	4-Nitrophenol	ND	3300
Benzyl Alcohol	ND	1320	2,4-Dinitrotoluene	ND	660
1,2-Dichlorobenzene	ND	660	Fluorene	ND	660
2-Methylphenol	ND	660	Diethylphthalate	ND	660
bis(2-chloroisopropyl)ether	ND	660	4-Chlorophenyl-phenyl ether	ND	660
n-Nitroso-di-n-propylamine	ND	660	4-Nitroaniline	ND	3300
4-Methylphenol	ND	660	4,6-Dinitro-2-methylphenol	ND	3300
Hexachloroethane	ND	660	n-Nitrosodiphenylamine	ND	660
Nitrobenzene	ND	660	4-Bromophenyl-phenyl ether	ND	660
Isophorone	ND	660	Hexachlorobenzene	ND	660
2-Nitrophenol	ND	660	Pentachlorophenol	ND	3300
2,4-Dimethylphenol	ND	660	Phenanthrene	ND	660
bis(2-Chloroethoxy)methane	ND	660	Anthracene	ND	660
2,4-Dichlorophenol	ND	660	Di-n-butylphthalate	ND	660
Benzoic Acid	ND	3300	Fluoranthene	ND	660
1,2,4-Trichlorobenzene	ND	660	Pyrene	ND	660
Naphthalene	ND	660	Butylbenzylphthalate	ND	660
4-Chloroaniline	ND	1320	Benzo[a]anthracene	ND	660
Hexachlorobutadiene	ND	660	3,3'-Dichlorobenzidine	ND	1320
4-Chloro-3-methylphenol	ND	1320	Chrysene	ND	660
2-Methylnaphthalene	ND	660	bis(2-Ethylhexyl)phthalate	ND	660
Hexachlorocyclopentadiene	ND	1320	Di-n-octylphthalate	ND	660
2,4,6-Trichlorophenol	ND	660	Benzo[b]fluoranthene	ND	660
2,4,5-Trichlorophenol	ND	1000	Benzo[k]fluoranthene	ND	660
2-Chloronaphthalene	ND	660	Benzo[a]pyrene	ND	660
2-Nitroaniline	ND	3300	Indeno[1,2,3-cd]pyrene	ND	660
Dimethylphthalate	ND	660	Dibenz[a,h]anthracene	ND	660
Acenaphthylene	ND	660	Benzo[g,h,i]perylene	ND	660
2,6-Dinitrotoluene	ND	660			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B29C1-3

Lab No.: 940104-020
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/06/94
 Date Analyzed: 01/07/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell
 Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B29C1-16

Lab No.: 940104-021
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/12/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B24C2-0

Lab No.: 940104-022
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/13/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 2

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	660	3-Nitroaniline	ND	3300
bis(2-Chloroethyl)ether	ND	660	Acenaphthene	ND	660
2-Chlorophenol	ND	660	2,4-Dinitrophenol	ND	3300
1,3-Dichlorobenzene	ND	660	Dibenzofuran	ND	660
1,4-Dichlorobenzene	ND	660	4-Nitrophenol	ND	3300
Benzyl Alcohol	ND	1320	2,4-Dinitrotoluene	ND	660
1,2-Dichlorobenzene	ND	660	Fluorene	ND	660
2-Methylphenol	ND	660	Diethylphthalate	ND	660
bis(2-chloroisopropyl)ether	ND	660	4-Chlorophenyl-phenyl ether	ND	660
n-Nitroso-di-n-propylamine	ND	660	4-Nitroaniline	ND	3300
4-Methylphenol	ND	660	4,6-Dinitro-2-methylphenol	ND	3300
Hexachloroethane	ND	660	n-Nitrosodiphenylamine	ND	660
Nitrobenzene	ND	660	4-Bromophenyl-phenyl ether	ND	660
Isophorone	ND	660	Hexachlorobenzene	ND	660
2-Nitrophenol	ND	660	Pentachlorophenol	ND	3300
2,4-Dimethylphenol	ND	660	Phenanthrene	ND	660
bis(2-Chloroethoxy)methane	ND	660	Anthracene	ND	660
2,4-Dichlorophenol	ND	660	Di-n-butylphthalate	ND	660
Benzoic Acid	ND	3300	Fluoranthene	ND	660
1,2,4-Trichlorobenzene	ND	660	Pyrene	ND	660
Naphthalene	ND	660	Butylbenzylphthalate	ND	660
4-Chloroaniline	ND	1320	Benzo[a]anthracene	ND	660
Hexachlorobutadiene	ND	660	3,3'-Dichlorobenzidine	ND	1320
4-Chloro-3-methylphenol	ND	1320	Chrysene	ND	660
2-Methylnaphthalene	ND	660	bis(2-Ethylhexyl)phthalate	ND	660
Hexachlorocyclopentadiene	ND	1320	Di-n-octylphthalate	ND	660
2,4,6-Trichlorophenol	ND	660	Benzo[b]fluoranthene	ND	660
2,4,5-Trichlorophenol	ND	1000	Benzo[k]fluoranthene	ND	660
2-Chloronaphthalene	ND	660	Benzo[a]pyrene	ND	660
2-Nitroaniline	ND	3300	Indeno[1,2,3-cd]pyrene	ND	660
Dimethylphthalate	ND	660	Dibenz[a,h.]anthracene	ND	660
Acenaphthylene	ND	660	Benzo[g,h,i]perylene	ND	660
2,6-Dinitrotoluene	ND	660			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B24C2-7

Lab No.: 940104-023
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/13/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 5

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	1650	3-Nitroaniline	ND	8250
bis(2-Chloroethyl)ether	ND	1650	Acenaphthene	ND	1650
2-Chlorophenol	ND	1650	2,4-Dinitrophenol	ND	8250
1,3-Dichlorobenzene	ND	1650	Dibenzofuran	ND	1650
1,4-Dichlorobenzene	ND	1650	4-Nitrophenol	ND	8250
Benzyl Alcohol	ND	3300	2,4-Dinitrotoluene	ND	1650
1,2-Dichlorobenzene	ND	1650	Fluorene	ND	1650
2-Methylphenol	ND	1650	Diethylphthalate	ND	1650
bis(2-chloroisopropyl)ether	ND	1650	4-Chlorophenyl-phenyl ether	ND	1650
n-Nitroso-di-n-propylamine	ND	1650	4-Nitroaniline	ND	8250
4-Methylphenol	ND	1650	4,6-Dinitro-2-methylphenol	ND	8250
Hexachloroethane	ND	1650	n-Nitrosodiphenylamine	ND	1650
Nitrobenzene	ND	1650	4-Bromophenyl-phenyl ether	ND	1650
Isophorone	ND	1650	Hexachlorobenzene	ND	1650
2-Nitrophenol	ND	1650	Pentachlorophenol	ND	8250
2,4-Dimethylphenol	ND	1650	Phenanthrene	ND	1650
bis(2-Chloroethoxy)methane	ND	1650	Anthracene	ND	1650
2,4-Dichlorophenol	ND	1650	Di-n-butylphthalate	ND	1650
Benzoic Acid	ND	8250	Fluoranthene	ND	1650
1,2,4-Trichlorobenzene	ND	1650	Pyrene	ND	1650
Naphthalene	ND	1650	Butylbenzylphthalate	ND	1650
4-Chloroaniline	ND	3300	Benzo[a]anthracene	ND	1650
Hexachlorobutadiene	ND	1650	3,3'-Dichlorobenzidine	ND	3300
4-Chloro-3-methylphenol	ND	3300	Chrysene	ND	1650
2-Methylnaphthalene	ND	1650	bis(2-Ethylhexyl)phthalate	ND	1650
Hexachlorocyclopentadiene	ND	3300	Di-n-octylphthalate	ND	1650
2,4,6-Trichlorophenol	ND	1650	Benzo[b]fluoranthene	ND	1650
2,4,5-Trichlorophenol	ND	2500	Benzo[k]fluoranthene	ND	1650
2-Chloronaphthalene	ND	1650	Benzo[a]pyrene	ND	1650
2-Nitroaniline	ND	8250	Indeno[1,2,3-cd]pyrene	ND	1650
Dimethylphthalate	ND	1650	Dibenz[a,h.]anthracene	ND	1650
Acenaphthylene	ND	1650	Benzo[g,h,i]perylene	ND	1650
2,6-Dinitrotoluene	ND	1650			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____



Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell
 Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B24C2-11

Lab No.: 940104-024
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/13/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 4

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	1320	3-Nitroaniline	ND	6600
bis(2-Chloroethyl)ether	ND	1320	Acenaphthene	ND	1320
2-Chlorophenol	ND	1320	2,4-Dinitrophenol	ND	6600
1,3-Dichlorobenzene	ND	1320	Dibenzofuran	ND	1320
1,4-Dichlorobenzene	ND	1320	4-Nitrophenol	ND	6600
Benzyl Alcohol	ND	2640	2,4-Dinitrotoluene	ND	1320
1,2-Dichlorobenzene	ND	1320	Fluorene	ND	1320
2-Methylphenol	ND	1320	Diethylphthalate	ND	1320
bis(2-chloroisopropyl)ether	ND	1320	4-Chlorophenyl-phenyl ether	ND	1320
n-Nitroso-di-n-propylamine	ND	1320	4-Nitroaniline	ND	6600
4-Methylphenol	ND	1320	4,6-Dinitro-2-methylphenol	ND	6600
Hexachloroethane	ND	1320	n-Nitrosodiphenylamine	ND	1320
Nitrobenzene	ND	1320	4-Bromophenyl-phenyl ether	ND	1320
Isophorone	ND	1320	Hexachlorobenzene	ND	1320
2-Nitrophenol	ND	1320	Pentachlorophenol	ND	6600
2,4-Dimethylphenol	ND	1320	Phenanthrene	ND	1320
bis(2-Chloroethoxy)methane	ND	1320	Anthracene	ND	1320
2,4-Dichlorophenol	ND	1320	Di-n-butylphthalate	ND	1320
Benzoic Acid	ND	6600	Fluoranthene	ND	1320
1,2,4-Trichlorobenzene	ND	1320	Pyrene	ND	1320
Naphthalene	ND	1320	Butylbenzylphthalate	ND	1320
4-Chloroaniline	ND	2640	Benzo[a]anthracene	ND	1320
Hexachlorobutadiene	ND	1320	3,3'-Dichlorobenzidine	ND	2640
4-Chloro-3-methylphenol	ND	2640	Chrysene	ND	1320
2-Methylnaphthalene	ND	1320	bis(2-Ethylhexyl)phthalate	ND	1320
Hexachlorocyclopentadiene	ND	2640	Di-n-octylphthalate	ND	1320
2,4,6-Trichlorophenol	ND	1320	Benzo[b]fluoranthene	ND	1320
2,4,5-Trichlorophenol	ND	2000	Benzo[k]fluoranthene	ND	1320
2-Chloronaphthalene	ND	1320	Benzo[a]pyrene	ND	1320
2-Nitroaniline	ND	6600	Indeno[1,2,3-cd]pyrene	ND	1320
Dimethylphthalate	ND	1320	Dibenz[a,h]anthracene	ND	1320
Acenaphthylene	ND	1320	Benzo[g,h,i]perylene	ND	1320
2,6-Dinitrotoluene	ND	1320			

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

Reviewed/Approved By: Chris Duncan Date: 1/17/94
 Chris Duncan
 Assistant Laboratory Director

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-025
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/06/94
 Date Analyzed: 01/07/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B25C2-3

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B26C2-0

Lab No.: 940104-026
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/13/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 10

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	3300	3-Nitroaniline	ND	16500
bis(2-Chloroethyl)ether	ND	3300	Acenaphthene	ND	3300
2-Chlorophenol	ND	3300	2,4-Dinitrophenol	ND	16500
1,3-Dichlorobenzene	ND	3300	Dibenzofuran	ND	3300
1,4-Dichlorobenzene	ND	3300	4-Nitrophenol	ND	16500
Benzyl Alcohol	ND	6600	2,4-Dinitrotoluene	ND	3300
1,2-Dichlorobenzene	ND	3300	Fluorene	ND	3300
2-Methylphenol	ND	3300	Diethylphthalate	ND	3300
bis(2-chloroisopropyl)ether	ND	3300	4-Chlorophenyl-phenyl ether	ND	3300
n-Nitroso-di-n-propylamine	ND	3300	4-Nitroaniline	ND	16500
4-Methylphenol	ND	3300	4,6-Dinitro-2-methylphenol	ND	16500
Hexachloroethane	ND	3300	n-Nitrosodiphenylamine	ND	3300
Nitrobenzene	ND	3300	4-Bromophenyl-phenyl ether	ND	3300
Isophorone	ND	3300	Hexachlorobenzene	ND	3300
2-Nitrophenol	ND	3300	Pentachlorophenol	ND	16500
2,4-Dimethylphenol	ND	3300	Phenanthrene	ND	3300
bis(2-Chloroethoxy)methane	ND	3300	Anthracene	ND	3300
2,4-Dichlorophenol	ND	3300	Di-n-butylphthalate	ND	3300
Benzoic Acid	ND	16500	Fluoranthene	ND	3300
1,2,4-Trichlorobenzene	ND	3300	Pyrene	ND	3300
Naphthalene	ND	3300	Butylbenzylphthalate	ND	3300
4-Chloroaniline	ND	6600	Benzo[a]anthracene	ND	3300
Hexachlorobutadiene	ND	3300	3,3'-Dichlorobenzidine	ND	6600
4-Chloro-3-methylphenol	ND	6600	Chrysene	ND	3300
2-Methylnaphthalene	ND	3300	bis(2-Ethylhexyl)phthalate	ND	3300
Hexachlorocyclopentadiene	ND	6600	Di-n-octylphthalate	ND	3300
2,4,6-Trichlorophenol	ND	3300	Benzo[b]fluoranthene	ND	3300
2,4,5-Trichlorophenol	ND	5000	Benzo[k]fluoranthene	ND	3300
2-Chloronaphthalene	ND	3300	Benzo[a]pyrene	ND	3300
2-Nitroaniline	ND	16500	Indeno[1,2,3-cd]pyrene	ND	3300
Dimethylphthalate	ND	3300	Dibenz[a,h]anthracene	ND	3300
Acenaphthylene	ND	3300	Benzo[g,h,i]perylene	ND	3300
2,6-Dinitrotoluene	ND	3300			

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

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B27C2-3

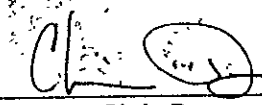
Lab No.: 940104-027
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/13/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 5

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	1650	3-Nitroaniline	ND	8250
bis(2-Chloroethyl)ether	ND	1650	Acenaphthene	ND	1650
2-Chlorophenol	ND	1650	2,4-Dinitrophenol	ND	8250
1,3-Dichlorobenzene	ND	1650	Dibenzofuran	ND	1650
1,4-Dichlorobenzene	ND	1650	4-Nitrophenol	ND	8250
Benzyl Alcohol	ND	3300	2,4-Dinitrotoluene	ND	1650
1,2-Dichlorobenzene	ND	1650	Fluorene	ND	1650
2-Methylphenol	ND	1650	Diethylphthalate	ND	1650
bis(2-chloroisopropyl)ether	ND	1650	4-Chlorophenyl-phenyl ether	ND	1650
n-Nitroso-di-n-propylamine	ND	1650	4-Nitroaniline	ND	8250
4-Methylphenol	ND	1650	4,6-Dinitro-2-methylphenol	ND	8250
Hexachloroethane	ND	1650	n-Nitrosodiphenylamine	ND	1650
Nitrobenzene	ND	1650	4-Bromophenyl-phenyl ether	ND	1650
Isophorone	ND	1650	Hexachlorobenzene	ND	1650
2-Nitrophenol	ND	1650	Pentachlorophenol	ND	8250
2,4-Dimethylphenol	ND	1650	Phenanthrene	ND	1650
bis(2-Chloroethoxy)methane	ND	1650	Anthracene	ND	1650
2,4-Dichlorophenol	ND	1650	Di-n-butylphthalate	ND	1650
Benzoic Acid	ND	8250	Fluoranthene	ND	1650
1,2,4-Trichlorobenzene	ND	1650	Pyrene	ND	1650
Naphthalene	ND	1650	Butylbenzylphthalate	ND	1650
4-Chloroaniline	ND	3300	Benzo[a]anthracene	ND	1650
Hexachlorobutadiene	ND	1650	3,3'-Dichlorobenzidine	ND	3300
4-Chloro-3-methylphenol	ND	3300	Chrysene	ND	1650
2-Methylnaphthalene	ND	1650	bis(2-Ethylhexyl)phthalate	ND	1650
Hexachlorocyclopentadiene	ND	3300	Di-n-octylphthalate	ND	1650
2,4,6-Trichlorophenol	ND	1650	Benzo[b]fluoranthene	ND	1650
2,4,5-Trichlorophenol	ND	2500	Benzo[k]fluoranthene	ND	1650
2-Chloronaphthalene	ND	1650	Benzo[a]pyrene	ND	1650
2-Nitroaniline	ND	8250	Indeno[1,2,3-cd]pyrene	ND	1650
Dimethylphthalate	ND	1650	Dibenz[a,h]anthracene	ND	1650
Acenaphthylene	ND	1650	Benzo[g,h,i]perylene	ND	1650
2,6-Dinitrotoluene	ND	1650			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B27C2-7


Lab No.: 940104-028 Dup
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/13/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell
 Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil

Lab No.: 940104-LCS 2
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/13/94
 Date Analyzed: 01/13/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

EPA Method 8270

ANALYTE	Results, ug/kg	% Recovery	ANALYTE	Results, ug/kg	% Recovery
Phenol	2808	85	3-Nitroaniline	2000	61
bis(2-Chloroethyl)ether	2331	71	Acenaphthene	2570	78
2-Chlorophenol	2600	79	2,4-Dinitrophenol	2660	80
1,3-Dichlorobenzene	1910	58	Dibenzofuran	2710	82
1,4-Dichlorobenzene	2090	63	4-Nitrophenol	2870	87
Benzyl Alcohol	2490	76	2,4-Dinitrotoluene	2780	84
1,2-Dichlorobenzene	2060	62	Fluorene	2750	83
2-Methylphenol	2730	83	Diethylphthalate	2780	84
bis(2-chloroisopropyl)ether	2510	76	4-Chlorophenyl-phenyl ether	2480	75
n-Nitroso-di-n-propylamine	2480	75	4-Nitroaniline	4500	136
4-Methylphenol	2840	86	4,6-Dinitro-2-methylphenol	3010	91
Hexachloroethane	2050	62	n-Nitrosodiphenylamine	2720	82
Nitrobenzene	2500	76	4-Bromophenyl-phenyl ether	2730	83
Isophorone	2980	90	Hexachlorobenzene	2860	87
2-Nitrophenol	1920	58	Pentachlorophenol	2790	85
2,4-Dimethylphenol	2790	85	Phenanthrene	2910	88
bis(2-Chloroethoxy)methane	2570	78	Anthracene	2920	89
2,4-Dichlorophenol	2700	82	Di-n-butylphthalate	2700	82
Benzolc Acid	2660	81	Fluoranthene	2630	80
1,2,4-Trichlorobenzene	2260	68	Pyrene	3070	93
Naphthalene	2410	73	Butylbenzylphthalate	3110	94
4-Chloroaniline	684	21	Benzo[a]anthracene	3160	96
Hexachlorobutadiene	2180	66	3,3'-Dichlorobenzidine	NA	NA
4-Chloro-3-methylphenol	2730	83	Chrysene	3180	96
2-Methylnaphthalene	2600	79	bis(2-Ethylhexyl)phthalate	3070	93
Hexachlorocyclopentadiene	1960	59	Di-n-octylphthalate	3060	93
2,4,6-Trichlorophenol	3180	96	Benzo[b]fluoranthene	2760	84
2,4,5-Trichlorophenol	2880	87	Benzo[k]fluoranthene	2830	86
2-Chloronaphthalene	2480	75	Benzo[a]pyrene	3170	96
2-Nitroaniline	2830	86	Indeno[1,2,3-cd]pyrene	3120	95
Dimethylphthalate	2770	84	Dibenz[a,h]anthracene	3250	99
Acenaphthylene	2830	86	Benzo[g,h,i]perylene	4090	124
2,6-Dinitrotoluene	2860	87			

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

Reviewed/Approved By: Chris Duncan Date: 1/17/94
 Chris Duncan
 Assistant Laboratory Director

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-028
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/13/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B27C2-7

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h.]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B27C2-11

Lab No.: 940104-029
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/12/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B29C2-0

Lab No.: 940104-030
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/15/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 4

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	1320	3-Nitroaniline	ND	6600
bis(2-Chloroethyl)ether	ND	1320	Acenaphthene	ND	1320
2-Chlorophenol	ND	1320	2,4-Dinitrophenol	ND	6600
1,3-Dichlorobenzene	ND	1320	Dibenzofuran	ND	1320
1,4-Dichlorobenzene	ND	1320	4-Nitrophenol	ND	6600
Benzyl Alcohol	ND	2640	2,4-Dinitrotoluene	ND	1320
1,2-Dichlorobenzene	ND	1320	Fluorene	ND	1320
2-Methylphenol	ND	1320	Diethylphthalate	ND	1320
bis(2-chloroisopropyl)ether	ND	1320	4-Chlorophenyl-phenyl ether	ND	1320
n-Nitroso-di-n-propylamine	ND	1320	4-Nitroaniline	ND	6600
4-Methylphenol	ND	1320	4,6-Dinitro-2-methylphenol	ND	6600
Hexachloroethane	ND	1320	n-Nitrosodiphenylamine	ND	1320
Nitrobenzene	ND	1320	4-Bromophenyl-phenyl ether	ND	1320
Isophorone	ND	1320	Hexachlorobenzene	ND	1320
2-Nitrophenol	ND	1320	Pentachlorophenol	ND	6600
2,4-Dimethylphenol	ND	1320	Phenanthrene	ND	1320
bis(2-Chloroethoxy)methane	ND	1320	Anthracene	ND	1320
2,4-Dichlorophenol	ND	1320	Di-n-butylphthalate	ND	1320
Benzolc Acid	ND	6600	Fluoranthene	ND	1320
1,2,4-Trichlorobenzene	ND	1320	Pyrene	ND	1320
Naphthalene	ND	1320	Butylbenzylphthalate	ND	1320
4-Chloroaniline	ND	2640	Benzo[a]anthracene	ND	1320
Hexachlorobutadiene	ND	1320	3,3'-Dichlorobenzidine	ND	2640
4-Chloro-3-methylphenol	ND	2640	Chrysene	ND	1320
2-Methylnaphthalene	ND	1320	bis(2-Ethylhexyl)phthalate	ND	1320
Hexachlorocyclopentadiene	ND	2640	Di-n-octylphthalate	ND	1320
2,4,6-Trichlorophenol	ND	1320	Benzo[b]fluoranthene	ND	1320
2,4,5-Trichlorophenol	ND	2000	Benzo[k]fluoranthene	ND	1320
2-Chloronaphthalene	ND	1320	Benzo[a]pyrene	ND	1320
2-Nitroaniline	ND	6600	Indeno[1,2,3-cd]pyrene	ND	1320
Dimethylphthalate	ND	1320	Dibenz[a,h.]anthracene	ND	1320
Acenaphthylene	ND	1320	Benzo[g,h,i]perylene	ND	1320
2,6-Dinitrotoluene	ND	1320			

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

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-031
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/06/94
 Date Analyzed: 01/07/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B29C2-3

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h.]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-032
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/13/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B29C2-16

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h.]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: Chris Duncan Date: 1/17/94
 Chris Duncan
 Assistant Laboratory Director

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell
 Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B30C2-0


Lab No.: 940104-033
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/15/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 10

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	3300	3-Nitroaniline	ND	16500
bis(2-Chloroethyl)ether	ND	3300	Acenaphthene	ND	3300
2-Chlorophenol	ND	3300	2,4-Dinitrophenol	ND	16500
1,3-Dichlorobenzene	ND	3300	Dibenzofuran	ND	3300
1,4-Dichlorobenzene	ND	3300	4-Nitrophenol	ND	16500
Benzyl Alcohol	ND	6600	2,4-Dinitrotoluene	ND	3300
1,2-Dichlorobenzene	ND	3300	Fluorene	ND	3300
2-Methylphenol	ND	3300	Diethylphthalate	ND	3300
bis(2-chloroisopropyl)ether	ND	3300	4-Chlorophenyl-phenyl ether	ND	3300
n-Nitroso-di-n-propylamine	ND	3300	4-Nitroaniline	ND	16500
4-Methylphenol	ND	3300	4,6-Dinitro-2-methylphenol	ND	16500
Hexachloroethane	ND	3300	n-Nitrosodiphenylamine	ND	3300
Nitrobenzene	ND	3300	4-Bromophenyl-phenyl ether	ND	3300
Isophorone	ND	3300	Hexachlorobenzene	ND	3300
2-Nitrophenol	ND	3300	Pentachlorophenol	ND	16500
2,4-Dimethylphenol	ND	3300	Phenanthrene	ND	3300
bis(2-Chloroethoxy)methane	ND	3300	Anthracene	ND	3300
2,4-Dichlorophenol	ND	3300	Di-n-butylphthalate	ND	3300
Benzoic Acid	ND	16500	Fluoranthene	ND	3300
1,2,4-Trichlorobenzene	ND	3300	Pyrene	ND	3300
Naphthalene	ND	3300	Butylbenzylphthalate	ND	3300
4-Chloroaniline	ND	6600	Benzo[a]anthracene	ND	3300
Hexachlorobutadiene	ND	3300	3,3'-Dichlorobenzidine	ND	6600
4-Chloro-3-methylphenol	ND	6600	Chrysene	ND	3300
2-Methylnaphthalene	ND	3300	bis(2-Ethylhexyl)phthalate	ND	3300
Hexachlorocyclopentadiene	ND	6600	Di-n-octylphthalate	ND	3300
2,4,6-Trichlorophenol	ND	3300	Benzo[b]fluoranthene	ND	3300
2,4,5-Trichlorophenol	ND	5000	Benzo[k]fluoranthene	ND	3300
2-Chloronaphthalene	ND	3300	Benzo[a]pyrene	ND	3300
2-Nitroaniline	ND	16500	Indeno[1,2,3-cd]pyrene	ND	3300
Dimethylphthalate	ND	3300	Dibenz[a,h.]anthracene	ND	3300
Acenaphthylene	ND	3300	Benzo[g,h,i]perylene	ND	3300
2,6-Dinitrotoluene	ND	3300			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell
 Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B30C2-3


Lab No.: 940104-034
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/13/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell
 Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B30C2-16

Lab No.: 940104-035
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/13/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-045 Dup
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/06/94
 Date Analyzed: 01/10/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B32C2-3

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/12/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-LCS 3
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/13/94
 Date Analyzed: 01/13/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil

Dilution Factor: 1

EPA Method 8270

ANALYTE	Results, ug/kg	% Recovery	ANALYTE	Results, ug/kg	% Recovery
Phenol	2380	72	3-Nitroaniline	2030	61
bis(2-Chloroethyl)ether	1950	59	Acenaphthene	2200	67
2-Chlorophenol	2180	66	2,4-Dinitrophenol	2050	62
1,3-Dichlorobenzene	1630	49	Dibenzofuran	2320	70
1,4-Dichlorobenzene	1770	54	4-Nitrophenol	2910	88
Benzyl Alcohol	2080	63	2,4-Dinitrotoluene	2540	77
1,2-Dichlorobenzene	1740	53	Fluorene	2390	72
2-Methylphenol	2310	70	Diethylphthalate	2540	77
bis(2-chloroisopropyl)ether	2220	67	4-Chlorophenyl-phenyl ether	2120	64
n-Nitroso-di-n-propylamine	2150	65	4-Nitroaniline	4270	129
4-Methylphenol	2390	73	4,6-Dinitro-2-methylphenol	2650	80
Hexachloroethane	1750	53	n-Nitrosodiphenylamine	2400	73
Nitrobenzene	2210	67	4-Bromophenyl-phenyl ether	2360	71
Isophorone	2600	79	Hexachlorobenzene	2460	75
2-Nitrophenol	1630	49	Pentachlorophenol	2540	77
2,4-Dimethylphenol	2390	72	Phenanthrene	2610	79
bis(2-Chloroethoxy)methane	2190	67	Anthracene	2640	80
2,4-Dichlorophenol	2280	69	Di-n-butylphthalate	2770	84
Benzoic Acid	2120	64	Fluoranthene	2710	82
1,2,4-Trichlorobenzene	1880	57	Pyrene	2890	87
Naphthalene	2040	62	Butylbenzylphthalate	2940	89
4-Chloroaniline	895	27	Benzo[a]anthracene	2970	90
Hexachlorobutadiene	1880	57	3,3'-Dichlorobenzidine	NA	NA
4-Chloro-3-methylphenol	2490	75	Chrysene	3010	91
2-Methylnaphthalene	2190	66	bis(2-Ethylhexyl)phthalate	2850	86
Hexachlorocyclopentadiene	1630	50	Di-n-octylphthalate	2880	87
2,4,6-Trichlorophenol	2700	82	Benzo[b]fluoranthene	2390	73
2,4,5-Trichlorophenol	2490	75	Benzo[k]fluoranthene	2780	84
2-Chloronaphthalene	2100	63	Benzo[a]pyrene	3060	93
2-Nitroaniline	2660	81	Indeno[1,2,3-cd]pyrene	2990	91
Dimethylphthalate	2450	74	Dibenz[a,h]anthracene	3070	93
Acenaphthylene	2410	73	Benzo[g,h,i]perylene	3890	118
2,6-Dinitrotoluene	2530	77			

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

Reviewed/Approved By: Chris Duncan
 Assistant Laboratory Director

Date: 1/12/94

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

Spike Recovery and RPD Summary Report - Soil (UG/KG)

Method : C:\HPCHEM\1\METHODS\8270X.M
 Title : 625-8270 TCL
 Last Update : Wed Jan 12 17:58:38 1994
 Response via : Continuing Calibration

Non-Spiked Sample: SB302.D

Spike Sample	Spike Duplicate Sample
File ID : SS915.D	SS916.D
Sample : BLK-MS 30G-1ML	BLK-MSD 30G-1ML
Acq Time: 12 Jan 94 9:22 pm	12 Jan 94 10:18 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
Phenol	0.0	6600	4029	5064	61	77	23	35	26- 90
2-Chlorophenol	0.0	6600	4080	5151	62	78	23	50	25-102
1,4-Dichlorobenzene	0.0	3300	1478	1908	45	58	25	27	28-104
n-Nitroso-di-n-propy	0.0	3300	1806	2363	54	71	27	38	41-126
1,2,4-Trichlorobenze	0.0	3300	1580	1997	48	61	23	23	38-107
4-Chloro-3-methylphe	0.0	6600	4246	5073	64	77	18	33	26-103
Acenaphthene	0.0	3300	1688	2039	51	62	19	19	31-137
4-Nitrophenol	0.0	6600	4791	5553	73	84	15	50	11-114
2,4-Dinitrotoluene	0.0	3300	1775	2204	54	67	22	47	28- 89
Pentachlorophenol	0.0	6600	3635	4060	55	62	11	47	17-109
Pyrene	0.0	3300	2275	2746	69	83	19	36	35-142

8270X.M

Thu Jan 13 09:51:20 1994

Reviewed/Approved By: Tim L. Lebkuecher
 Tim Lebkuecher
 QA/QC Officer

Date: 1/17/94

Spike Recovery and RPD Summary Report - WATER (UG/L)

Method : C:\HPCHEM\1\METHODS\8270X.M
 Title : 625-8270 TCL
 Last Update : Wed Jan 05 12:19:03 1994
 Response via : Continuing Calibration

Non-Spiked Sample: SB293.D

Spike Sample ----- File ID : SS837.D Sample : BLK-MS 1L-1ML E-1/4/94 Acq Time: 5 Jan 94 2:56 pm		Spike Duplicate Sample ----- SS838.D BLK-MSD 1L-1ML E-1/4/94 5 Jan 94 3:52 pm
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Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits	
								RPD	% Rec
Phenol	0.0	200	44	44	22	22	1	39	19- 32
2-Chlorophenol	0.0	200	106	111	53	55	4	25	41- 74
1,4-Dichlorobenzene	0.0	100	44	50	44	50	11	30	30- 67
n-Nitroso-di-n-propy	0.0	100	71	69	57	55	4	17	47- 90
1,2,4-Trichlorobenze	0.0	100	50	54	50	54	7	29	30- 83
4-Chloro-3-methylphe	0.0	200	137	136	69	68	1	11	55- 72
Acenaphthene	0.0	100	65	64	65	64	2	9	51- 82
4-Nitrophenol	0.0	200	65	61	32	31	5	50	10- 80
2,4-Dinitrotoluene	0.0	100	71	69	71	69	4	13	61- 80
pentachlorophenol	0.0	200	172	166	86	83	3	50	9-103
Pyrene	0.0	100	84	81	84	81	4	9	66- 96

8270X.M

Wed Jan 05 17:15:48 1994

Reviewed/Approved By: Tim L. Lebkuecher
 Tim Lebkuecher
 QA/QC Officer

Date: 1/17/94

Spike Recovery and RPD Summary Report - SOIL (UG/KG)

Method : C:\HPCHEM\1\METHODS\8270X.M
 Title : 625-8270 TCL
 Last Update : Fri Jan 07 11:30:38 1994
 Response via : Continuing Calibration

Non-Spiked Sample: SB296.D

Spike
Sample

Spike
Duplicate Sample

File ID : SS858.D
 Sample : BLK-MS 30G 1ML E-1/6
 Acq Time: 7 Jan 94 1:06 pm

SS859.D
 BK-MSD 30G-1ML E-1/6
 7 Jan 94 2:02 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	% Rec
Phenol	0.0	6600	5507	5275	83	80	4	17	60- 90
2-Chlorophenol	0.0	6600	5792	5464	88	83	6	50	25-102
1,4-Dichlorobenzene	0.0	3300	2139	2029	65	61	5	27	28-104
n-Nitroso-di-n-propy	0.0	3300	2493	2388	61	58	5	20	49-105
1,2,4-Trichlorobenze	0.0	3300	2355	2244	71	68	5	23	38-107
4-Chloro-3-methylphe	0.0	6600	5859	5836	89	88	0	13	63- 90
Acenaphthene	0.0	3300	2382	2218	72	67	7	10	55- 73
4-Nitrophenol	0.0	6600	5899	6187	89	94	5	50	11-114
2,4-Dinitrotoluene	0.0	3300	2570	2445	78	74	5	10	60- 88
Pentachlorophenol	0.0	6600	5465	4979	83	75	9	12	40- 91
ylene	0.0	3300	3029	2826	92	86	7	36	35-142

8270X.M

Sun Jan 09 09:18:29 1994

Reviewed/Approved By:

Tim Lebkuecher
 Tim Lebkuecher
 QA/QC Officer

Date:

1/17/94

Spike Recovery and RPD Summary Report - SOIL (UG/KG)

Method : C:\HPCHEM\1\METHODS\8270X.M
 Title : 625-8270 TCL
 Last Update : Tue Jan 11 13:00:28 1994
 Response via : Continuing Calibration

Non-Spiked Sample: SB301.D

Spike Sample	Spike Duplicate Sample
File ID : SS899.D	SS900.D
Sample : BLK-MS 30G-1ML E-1/10	BLK-MSD 30G-1ML E-1/10
Acq Time: 11 Jan 94 6:01 pm	11 Jan 94 6:56 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
Phenol	0.0	6600	4004	3974	61	60	1	17	60- 90
2-Chlorophenol	0.0	6600	4238	4141	64	63	2	14	57- 83
1,4-Dichlorobenzene	0.0	3300	1481	1483	45	45	0	11	42- 62
n-Nitroso-di-n-propy	0.0	3300	1873	1883	43	43	1	38	41-126
1,2,4-Trichlorobenze	0.0	3300	1658	1660	50	50	0	8	46- 68
4-Chloro-3-methylphe	0.0	6600	4512	4606	68	70	2	13	63- 90
Acenaphthene	0.0	3300	1783	1766	54	53	1	19	31-137
4-Nitrophenol	0.0	6600	4946	5069	75	77	2	13	53- 81
2,4-Dinitrotoluene	0.0	3300	1923	1928	58	58	0	47	28- 89
Pentachlorophenol	0.0	6600	4842	4917	73	75	2	12	40- 91
Pyrene	0.0	3300	2416	2416	73	73	0	9	62- 87

8270X.M

Wed Jan 12 09:33:52 1994

Reviewed/Approved By: Tim Lebkuether

Tim Lebkuether
 QA/QC Officer

Date: 1/17/94

Spike Recovery and RPD Summary Report - SOIL (UG/KG)

Method : C:\HPCHEM\1\METHODS\8270X.M
 Title : 625-8270 TCL
 Last Update : Fri Jan 07 11:30:38 1994
 Response via : Continuing Calibration

Non-Spiked Sample: SB296.D

Spike Sample	Spike Duplicate Sample
File ID : SS858.D	SS859.D
Sample : BLK-MS 30G 1ML E-1/6	BK-MSD 30G-1ML E-1/6
Acq Time: 7 Jan 94 1:06 pm	7 Jan 94 2:02 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits	
								RPD	% Rec
Phenol	0.0	6600	5507	5275	83	80	4	17	60- 90
2-Chlorophenol	0.0	6600	5792	5464	88	83	6	50	25-102
1,4-Dichlorobenzene	0.0	3300	2139	2029	65	61	5	27	28-104
n-Nitroso-di-n-propy	0.0	3300	2493	2388	61	58	5	20	49-105
1,2,4-Trichlorobenze	0.0	3300	2355	2244	71	68	5	23	38-107
4-Chloro-3-methylphe	0.0	6600	5859	5836	89	88	0	13	63- 90
Acenaphthene	0.0	3300	2382	2218	72	67	7	10	55- 73
4-Nitrophenol	0.0	6600	5899	6187	89	94	5	50	11-114
2,4-Dinitrotoluene	0.0	3300	2570	2445	78	74	5	10	60- 88
Pentachlorophenol	0.0	6600	5465	4979	83	75	9	12	40- 91
Pyrene	0.0	3300	3029	2826	92	86	7	36	35-142

8270X.M

Sun Jan 09 09:18:29 1994

Reviewed/Approved By: Tim Lebkuecher
 Tim Lebkuecher
 QA/QC Officer

Date: 1/17/94

Spike Recovery and RPD Summary Report - SOIL (UG/KG)

Method : C:\HPCHEM\1\METHODS\8270X.M
 Title : 625-8270 TCL
 Last Update : Thu Jan 13 13:31:13 1994
 Response via : Continuing Calibration

Non-Spiked Sample: SB303.D

Spike Sample	Spike Duplicate Sample
File ID : SS930.D	SS931.D
Sample : BLK-MS 30G-1ML	BLK-MSD 30G-1ML
Acq Time: 13 Jan 94 4:41 pm	13 Jan 94 5:37 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
Phenol	0.0	6600	4574	4599	69	70	1	17	60- 90
2-Chlorophenol	0.0	6600	4834	4783	73	72	1	14	57- 83
1,4-Dichlorobenzene	0.0	3300	1793	1783	54	54	1	11	42- 62
n-Nitroso-di-n-propy	0.0	3300	2283	2314	69	70	1	20	49-105
1,2,4-Trichlorobenze	0.0	3300	1974	1990	60	60	1	8	46- 68
4-Chloro-3-methylphe	0.0	6600	5070	5184	77	79	2	13	63- 90
Acenaphthene	0.0	3300	2038	2039	62	62	0	10	55- 73
4-Nitrophenol	0.0	6600	5546	5740	84	87	3	50	11-114
2,4-Dinitrotoluene	0.0	3300	2207	2220	67	67	1	10	60- 88
Pentachlorophenol	0.0	6600	4677	4580	71	69	2	12	40- 91
Pyrene	0.0	3300	2696	2675	82	81	1	9	62- 87

8270X.M Fri Jan 14 10:35:15 1994

Reviewed/Approved By: Tim Lebkuecher
 Tim Lebkuecher
 QA/QC Officer

Date: 1/17/94

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-014
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/12-13/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 4

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B26C1-0

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	1320	3-Nitroaniline	ND	6600
bis(2-Chloroethyl)ether	ND	1320	Acenaphthene	6080	1320
2-Chlorophenol	ND	1320	2,4-Dinitrophenol	ND	6600
1,3-Dichlorobenzene	ND	1320	Dibenzofuran	4840	1320
1,4-Dichlorobenzene	ND	1320	4-Nitrophenol	ND	6600
Benzyl Alcohol	ND	2640	2,4-Dinitrotoluene	ND	1320
1,2-Dichlorobenzene	ND	1320	Fluorene	4910	1320
2-Methylphenol	ND	1320	Diethylphthalate	ND	1320
bis(2-chloroisopropyl)ether	ND	1320	4-Chlorophenyl-phenyl ether	ND	1320
n-Nitroso-di-n-propylamine	ND	1320	4-Nitroaniline	ND	6600
4-Methylphenol	ND	1320	4,6-Dinitro-2-methylphenol	ND	6600
Hexachloroethane	ND	1320	n-Nitrosodiphenylamine	ND	1320
Nitrobenzene	ND	1320	4-Bromophenyl-phenyl ether	ND	1320
Isophorone	ND	1320	Hexachlorobenzene	ND	1320
2-Nitrophenol	ND	1320	Pentachlorophenol	ND	6600
2,4-Dimethylphenol	ND	1320	Phenanthrene	21800	* 3300
bis(2-Chloroethoxy)methane	ND	1320	Anthracene	2880	1320
2,4-Dichlorophenol	ND	1320	Di-n-butylphthalate	ND	1320
Benzic Acid	ND	6600	Fluoranthene	17400	1320
1,2,4-Trichlorobenzene	ND	1320	Pyrene	15400	1320
Naphthalene	4590	1320	Butylbenzylphthalate	ND	1320
4-Chloroaniline	ND	2640	Benzo[a]anthracene	4220	1320
Hexachlorobutadiene	ND	1320	3,3'-Dichlorobenzidine	ND	2640
4-Chloro-3-methylphenol	ND	2640	Chrysene	4590	1320
2-Methylnaphthalene	5480	1320	bis(2-Ethylhexyl)phthalate	ND	1320
Hexachlorocyclopentadiene	ND	2640	Di-n-octylphthalate	ND	1320
2,4,6-Trichlorophenol	ND	1320	Benzo[b]fluoranthene	4000	1320
2,4,5-Trichlorophenol	ND	2000	Benzo[k]fluoranthene	2860	1320
2-Chloronaphthalene	ND	1320	Benzo[a]pyrene	1930	1320
2-Nitroaniline	ND	6600	Indeno[1,2,3-cd]pyrene	ND	1320
Dimethylphthalate	ND	1320	Dibenz[a,h]anthracene	ND	1320
Acenaphthylene	ND	1320	Benzo[g,h,i]perylene	ND	1320
2,6-Dinitrotoluene	ND	1320			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Dilution Factor is 10

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-042
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/15/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 2

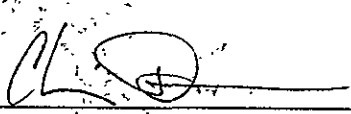
Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B28C2-0

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	660	3-Nitroaniline	ND	3300
bis(2-Chloroethyl)ether	ND	660	Acenaphthene	1750	660
2-Chlorophenol	ND	660	2,4-Dinitrophenol	ND	3300
1,3-Dichlorobenzene	ND	660	Dibenzofuran	1740	660
1,4-Dichlorobenzene	ND	660	4-Nitrophenol	ND	3300
Benzyl Alcohol	ND	1320	2,4-Dinitrotoluene	ND	660
1,2-Dichlorobenzene	ND	660	Fluorene	1520	660
2-Methylphenol	ND	660	Diethylphthalate	ND	660
bis(2-chloroisopropyl)ether	ND	660	4-Chlorophenyl-phenyl ether	ND	660
n-Nitroso-di-n-propylamine	ND	660	4-Nitroaniline	ND	3300
4-Methylphenol	ND	660	4,6-Dinitro-2-methylphenol	ND	3300
Hexachloroethane	ND	660	n-Nitrosodiphenylamine	ND	660
Nitrobenzene	ND	660	4-Bromophenyl-phenyl ether	ND	660
Isophorone	ND	660	Hexachlorobenzene	ND	660
2-Nitrophenol	ND	660	Pentachlorophenol	ND	3300
2,4-Dimethylphenol	ND	660	Phenanthrene	8270	660
bis(2-Chloroethoxy)methane	ND	660	Anthracene	826	660
2,4-Dichlorophenol	ND	660	Di-n-butylphthalate	ND	660
Benzoic Acid	ND	3300	Fluoranthene	4970	660
1,2,4-Trichlorobenzene	ND	660	Pyrene	4130	660
Naphthalene	2230	660	Butylbenzylphthalate	ND	660
4-Chloroaniline	ND	1320	Benzo[a]anthracene	1310	660
Hexachlorobutadiene	ND	660	3,3'-Dichlorobenzidine	ND	1320
4-Chloro-3-methylphenol	ND	1320	Chrysene	1420	660
2-Methylnaphthalene	1900	660	bis(2-Ethylhexyl)phthalate	777	660
Hexachlorocyclopentadiene	ND	1320	Di-n-octylphthalate	ND	660
2,4,6-Trichlorophenol	ND	660	Benzo[b]fluoranthene	ND	660
2,4,5-Trichlorophenol	ND	1000	Benzo[k]fluoranthene	ND	660
2-Chloronaphthalene	ND	660	Benzo[a]pyrene	832	660
2-Nitroaniline	ND	3300	Indeno[1,2,3-cd]pyrene	ND	660
Dimethylphthalate	ND	660	Dibenz[a,h]anthracene	ND	660
Acenaphthylene	ND	660	Benzo[g,h,i]perylene	ND	660
2,6-Dinitrotoluene	ND	660			

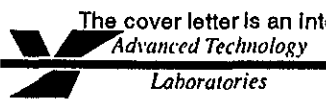
MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94



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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell
 Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B28C2-2


Lab No.: 940104-043
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/15/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	410	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	377	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	351	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	1790	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	1020	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	906	330
Naphthalene	457	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	419	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h.]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-013
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/06/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B31C2-3

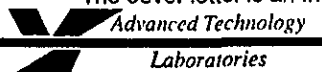
EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan Date: 1/18/94
 Chris Duncan
 Assistant Laboratory Director

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



Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-012
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/10/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 50

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B31C2-0

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	16500	3-Nitroaniline	ND	82500
bis(2-Chloroethyl)ether	ND	16500	Acenaphthene	ND	16500
2-Chlorophenol	ND	16500	2,4-Dinitrophenol	ND	82500
1,3-Dichlorobenzene	ND	16500	Dibenzofuran	ND	16500
1,4-Dichlorobenzene	ND	16500	4-Nitrophenol	ND	82500
Benzyl Alcohol	ND	33000	2,4-Dinitrotoluene	ND	16500
1,2-Dichlorobenzene	ND	16500	Fluorene	ND	16500
2-Methylphenol	ND	16500	Diethylphthalate	ND	16500
bis(2-chloroisopropyl)ether	ND	16500	4-Chlorophenyl-phenyl ether	ND	16500
n-Nitroso-dl-n-propylamine	ND	16500	4-Nitroaniline	ND	82500
4-Methylphenol	ND	16500	4,6-Dinitro-2-methylphenol	ND	82500
Hexachloroethane	ND	16500	n-Nitrosodiphenylamine	ND	16500
Nitrobenzene	ND	16500	4-Bromophenyl-phenyl ether	ND	16500
Isophorone	ND	16500	Hexachlorobenzene	ND	16500
2-Nitrophenol	ND	16500	Pentachlorophenol	ND	82500
2,4-Dimethylphenol	ND	16500	Phenanthrene	ND	16500
bis(2-Chloroethoxy)methane	ND	16500	Anthracene	ND	16500
2,4-Dichlorophenol	ND	16500	Di-n-butylphthalate	ND	16500
Benzic Acid	ND	82500	Fluoranthene	ND	16500
1,2,4-Trichlorobenzene	ND	16500	Pyrene	ND	16500
Naphthalene	ND	16500	Butylbenzylphthalate	ND	16500
4-Chloroaniline	ND	33000	Benzo[a]anthracene	ND	16500
Hexachlorobutadiene	ND	16500	3,3'-Dichlorobenzidine	ND	33000
4-Chloro-3-methylphenol	ND	33000	Chrysene	ND	16500
2-Methylnaphthalene	ND	16500	bis(2-Ethylhexyl)phthalate	ND	16500
Hexachlorocyclopentadiene	ND	33000	Di-n-octylphthalate	ND	16500
2,4,6-Trichlorophenol	ND	16500	Benzo[b]fluoranthene	ND	16500
2,4,5-Trichlorophenol	ND	25000	Benzo[k]fluoranthene	ND	16500
2-Chloronaphthalene	ND	16500	Benzo[a]pyrene	ND	16500
2-Nitroaniline	ND	82500	Indeno[1,2,3-cd]pyrene	ND	16500
Dimethylphthalate	ND	16500	Dibenz[a,h.]anthracene	ND	16500
Acenaphthylene	ND	16500	Benzo[g,h,i]perylene	ND	16500
2,6-Dinitrotoluene	ND	16500			

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

Reviewed/Approved By: _____

Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/18/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B36C2-6

Lab No.: 940104-052
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/14/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: Chris Duncan Date: 1/18/94
 Chris Duncan
 Assistant Laboratory Director

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B33C1-14

Lab No.: 940103-006
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/03/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: Chris Duncan Date: 1/18/94
 Chris Duncan
 Assistant Laboratory Director

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01

Matrix: Soil
 Sample ID: B32C2-0

Lab No.: 940104-044
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/14/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Advanced Technology

Laboratories

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-045
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/06/94
 Date Analyzed: 01/07/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B32C2-3

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	DI-n-butylphthalate	ND	330
Benzolc Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	DI-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

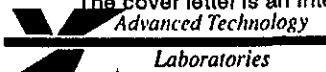
Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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



Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B32C2-9

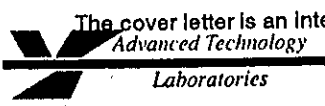
Lab No.: 940104-046
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/14/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzolc Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: Chris Duncan Date: 1/17/94
 Chris Duncan
 Assistant Laboratory Director



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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-047
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/15/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 10

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B33C2-0

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	3300	3-Nitroaniline	ND	16500
bis(2-Chloroethyl)ether	ND	3300	Acenaphthene	ND	3300
2-Chlorophenol	ND	3300	2,4-Dinitrophenol	ND	16500
1,3-Dichlorobenzene	ND	3300	Dibenzofuran	ND	3300
1,4-Dichlorobenzene	ND	3300	4-Nitrophenol	ND	16500
Benzyl Alcohol	ND	6600	2,4-Dinitrotoluene	ND	3300
1,2-Dichlorobenzene	ND	3300	Fluorene	ND	3300
2-Methylphenol	ND	3300	Diethylphthalate	ND	3300
bis(2-chloroisopropyl)ether	ND	3300	4-Chlorophenyl-phenyl ether	ND	3300
n-Nitroso-di-n-propylamine	ND	3300	4-Nitroaniline	ND	16500
4-Methylphenol	ND	3300	4,6-Dinitro-2-methylphenol	ND	16500
Hexachloroethane	ND	3300	n-Nitrosodiphenylamine	ND	3300
Nitrobenzene	ND	3300	4-Bromophenyl-phenyl ether	ND	3300
Isophorone	ND	3300	Hexachlorobenzene	ND	3300
2-Nitrophenol	ND	3300	Pentachlorophenol	ND	16500
2,4-Dimethylphenol	ND	3300	Phenanthrene	ND	3300
bis(2-Chloroethoxy)methane	ND	3300	Anthracene	ND	3300
2,4-Dichlorophenol	ND	3300	Di-n-butylphthalate	ND	3300
Benzic Acid	ND	16500	Fluoranthene	ND	3300
1,2,4-Trichlorobenzene	ND	3300	Pyrene	ND	3300
Naphthalene	ND	3300	Butylbenzylphthalate	ND	3300
4-Chloroaniline	ND	6600	Benzo[a]anthracene	ND	3300
Hexachlorobutadiene	ND	3300	3,3'-Dichlorobenzidine	ND	6600
4-Chloro-3-methylphenol	ND	6600	Chrysene	ND	3300
2-Methylnaphthalene	ND	3300	bis(2-Ethylhexyl)phthalate	ND	3300
Hexachlorocyclopentadiene	ND	6600	Di-n-octylphthalate	ND	3300
2,4,6-Trichlorophenol	ND	3300	Benzo[b]fluoranthene	ND	3300
2,4,5-Trichlorophenol	ND	5000	Benzo[k]fluoranthene	ND	3300
2-Chloronaphthalene	ND	3300	Benzo[a]pyrene	ND	3300
2-Nitroaniline	ND	16500	Indeno[1,2,3-cd]pyrene	ND	3300
Dimethylphthalate	ND	3300	Dibenz[a,h]anthracene	ND	3300
Acenaphthylene	ND	3300	Benzo[g,h,i]perylene	ND	3300
2,6-Dinitrotoluene	ND	3300			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B33C2-3

Lab No.: 940104-048
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/06/94
 Date Analyzed: 01/07/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Advanced Technology

Laboratories

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell
 Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B33C2-9

Lab No.: 940104-049
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/14/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: Chris Duncan Date: 1/17/94
 Chris Duncan
 Assistant Laboratory Director

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B36C2-0

Lab No.: 940104-050
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/14/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	1650
2-Nitrophenol	ND	330	Pentachlorophenol	ND	330
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h.]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-051
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/06/94
 Date Analyzed: 01/10/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B36C2-3

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

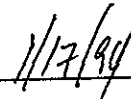
MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____



Chris Duncan
 Assistant Laboratory Director

Date: _____



Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell
 Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B32C2-3

Lab No.: 940104-045 Dup
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/06/94
 Date Analyzed: 01/10/04
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h.]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i.]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan Date: 1/17/94
 Chris Duncan
 Assistant Laboratory Director

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell
 Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil

Lab No.: 940104-Blank 1
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/06/94
 Date Analyzed: 01/07/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

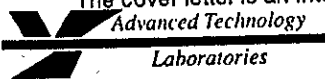
Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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



Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell
 Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil

Lab No.: 940104-LCS 1
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/13/94
 Date Analyzed: 01/14/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

EPA Method 8270

ANALYTE	Results, ug/kg	% Recovery	ANALYTE	Results, ug/kg	% Recovery
Phenol	2550	77	3-Nitroaniline	1630	50
bis(2-Chloroethyl)ether	2170	66	Acenaphthene	2460	75
2-Chlorophenol	2440	74	2,4-Dinitrophenol	2690	84
1,3-Dichlorobenzene	1910	57	Dibenzofuran	2620	79
1,4-Dichlorobenzene	2040	62	4-Nitrophenol	2730	83
Benzyl Alcohol	2370	72	2,4-Dinitrotoluene	2620	82
1,2-Dichlorobenzene	2080	63	Fluorene	2630	80
2-Methylphenol	2580	78	Diethylphthalate	2660	81
bis(2-chloroisopropyl)ether	2420	73	4-Chlorophenyl-phenyl ether	2450	74
n-Nitroso-di-n-propylamine	2430	74	4-Nitroaniline	2480	75
4-Methylphenol	2650	80	4,6-Dinitro-2-methylphenol	2450	89
Hexachloroethane	2040	62	n-Nitrosodiphenylamine	2680	81
Nitrobenzene	2370	72	4-Bromophenyl-phenyl ether	2660	81
Isophorone	2850	86	Hexachlorobenzene	2770	84
2-Nitrophenol	1850	56	Pentachlorophenol	2610	79
2,4-Dimethylphenol	3290	100	Phenanthrene	2790	84
bis(2-Chloroethoxy)methane	2470	75	Anthracene	2900	88
2,4-Dichlorophenol	2560	77	Di-n-butylphthalate	2680	81
Benzoic Acid	2510	76	Fluoranthene	2780	84
1,2,4-Trichlorobenzene	2230	68	Pyrene	2710	82
Naphthalene	2360	72	Butylbenzylphthalate	2640	80
4-Chloroaniline	782	24	Benzo[a]anthracene	2830	86
Hexachlorobutadiene	2270	64	3,3'-Dichlorobenzidine	NA	NA
4-Chloro-3-methylphenol	2570	78	Chrysene	2840	86
2-Methylnaphthalene	2490	76	bis(2-Ethylhexyl)phthalate	2610	79
Hexachlorocyclopentadiene	2820	85	Di-n-octylphthalate	2460	75
2,4,6-Trichlorophenol	3010	91	Benzo[b]fluoranthene	2300	70
2,4,5-Trichlorophenol	2680	81	Benzo[k]fluoranthene	1740	53
2-Chloronaphthalene	2450	74	Benzo[a]pyrene	2940	89
2-Nitroaniline	2610	79	Indeno[1,2,3-cd]pyrene	2940	89
Dimethylphthalate	2610	79	Dibenz[a,h,j]anthracene	2910	88
Acenaphthylene	2750	76	Benzo[g,h,i]perylene	2910	88
2,6-Dinitrotoluene	2500	83			

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

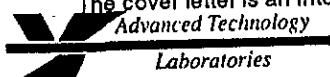
Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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



Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-052
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/14/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B36C2-6

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzolc Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-046 Dup
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/11/94
 Date Analyzed: 01/14/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

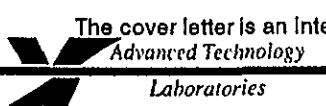
Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B32C2-9

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: Chris Duncan Date: 1/17/94
 Chris Duncan
 Assistant Laboratory Director



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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-Blank 2
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/13/94
 Date Analyzed: 01/14/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-LCS 2
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/13/94
 Date Analyzed: 01/14/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil

EPA Method 8270

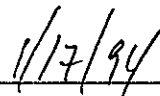
ANALYTE	Results, ug/kg	% Recovery	ANALYTE	Results, ug/kg	% Recovery
Phenol	2140	65	3-Nitroaniline	1690	51
bis(2-Chloroethyl)ether	1800	55	Acenaphthene	2130	65
2-Chlorophenol	2000	61	2,4-Dinitrophenol	2470	75
1,3-Dichlorobenzene	1480	45	Dibenzofuran	2110	64
1,4-Dichlorobenzene	1570	48	4-Nitrophenol	2480	75
Benzyl Alcohol	1890	57	2,4-Dinitrotoluene	2290	69
1,2-Dichlorobenzene	1610	49	Fluorene	2110	64
2-Methylphenol	2060	62	Diethylphthalate	2310	70
bis(2-chloroisopropyl)ether	1930	58	4-Chlorophenyl-phenyl ether	1990	60
n-Nitroso-dl-n-propylamine	1940	59	4-Nitroaniline	2530	77
4-Methylphenol	2130	65	4,6-Dinitro-2-methylphenol	2710	82
Hexachloroethane	1540	47	n-Nitrosodiphenylamine	1970	60
Nitrobenzene	1920	58	4-Bromophenyl-phenyl ether	2230	68
Isophorone	2310	70	Hexachlorobenzene	2340	71
2-Nitrophenol	1540	47	Pentachlorophenol	2440	74
2,4-Dimethylphenol	2670	81	Phenanthrene	2310	70
bis(2-Chloroethoxy)methane	2010	61	Anthracene	2340	71
2,4-Dichlorophenol	2120	64	DI-n-butylphthalate	2500	76
Benzoic Acid	2000	61	Fluoranthene	2470	75
1,2,4-Trichlorobenzene	1760	53	Pyrene	2510	76
Naphthalene	1830	55	Butylbenzylphthalate	2560	78
4-Chloroaniline	1080	33	Benzo[a]anthracene	2540	77
Hexachlorobutadiene	1790	54	3,3'-Dichlorobenzidine	NA	NA
4-Chloro-3-methylphenol	2230	68	Chrysene	2560	78
2-Methylnaphthalene	2020	61	bis(2-Ethylhexyl)phthalate	2450	74
Hexachlorocyclopentadiene	1840	56	DI-n-octylphthalate	2560	78
2,4,6-Trichlorophenol	2480	75	Benzo[b]fluoranthene	2100	64
2,4,5-Trichlorophenol	2190	66	Benzo[k]fluoranthene	1740	53
2-Chloronaphthalene	1930	59	Benzo[a]pyrene	2620	79
2-Nitroaniline	2250	68	Indeno[1,2,3-cd]pyrene	2690	81
Dimethylphthalate	2170	66	Dibenz[a,h]anthracene	2650	80
Acenaphthylene	2070	63	Benzo[g,h,i]perylene	2700	82
2,6-Dinitrotoluene	2130	65			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____



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

Spike Recovery and RPD Summary Report - SOIL (UG/KG)

Method : C:\HPCHEM\1\METHODS\8270X.M
 Title : 625-8270 TCL
 Last Update : Thu Jan 13 13:31:13 1994
 Response via : Continuing Calibration

Non-Spiked Sample: SB303.D

Spike Sample	Spike Duplicate Sample
File ID : SS930.D	SS931.D
Sample : BLK-MS 30G-1ML	BLK-MSD 30G-1ML
Acq Time: 13 Jan 94 4:41 pm	13 Jan 94 5:37 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits	
								RPD	% Rec
Phenol	0.0	6600	4574	4599	69	70	1	17	60- 90
2-Chlorophenol	0.0	6600	4834	4783	73	72	1	14	57- 83
1,4-Dichlorobenzene	0.0	3300	1793	1783	54	54	1	11	42- 62
n-Nitroso-di-n-propy	0.0	3300	2283	2314	69	70	1	20	49-105
1,2,4-Trichlorobenze	0.0	3300	1974	1990	60	60	1	8	46- 68
4-Chloro-3-methylphe	0.0	6600	5070	5184	77	79	2	13	63- 90
Acenaphthene	0.0	3300	2038	2039	62	62	0	10	55- 73
4-Nitrophenol	0.0	6600	5546	5740	84	87	3	50	11-114
2,4-Dinitrotoluene	0.0	3300	2207	2220	67	67	1	10	60- 88
Pentachlorophenol	0.0	6600	4677	4580	71	69	2	12	40- 91
Pyrene	0.0	3300	2696	2675	82	81	1	9	62- 87

8270X.M

Fri Jan 14 10:35:15 1994

Reviewed/Approved By: Tim L. Lebkuecher
 Tim Lebkuecher
 QA/QC Officer

Date: 1/17/94

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B36C1-0

Lab No.: 940103-001
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/03/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 10

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	3300	3-Nitroaniline	ND	16500
bis(2-Chloroethyl)ether	ND	3300	Acenaphthene	ND	3300
2-Chlorophenol	ND	3300	2,4-Dinitrophenol	ND	16500
1,3-Dichlorobenzene	ND	3300	Dibenzofuran	ND	3300
1,4-Dichlorobenzene	ND	3300	4-Nitrophenol	ND	16500
Benzyl Alcohol	ND	6600	2,4-Dinitrotoluene	ND	3300
1,2-Dichlorobenzene	ND	3300	Fluorene	ND	3300
2-Methylphenol	ND	3300	Diethylphthalate	ND	3300
bis(2-chloroisopropyl)ether	ND	3300	4-Chlorophenyl-phenyl ether	ND	3300
n-Nitroso-di-n-propylamine	ND	3300	4-Nitroaniline	ND	16500
4-Methylphenol	ND	3300	4,6-Dinitro-2-methylphenol	ND	16500
Hexachloroethane	ND	3300	n-Nitrosodiphenylamine	ND	3300
Nitrobenzene	ND	3300	4-Bromophenyl-phenyl ether	ND	3300
Isophorone	ND	3300	Hexachlorobenzene	ND	3300
2-Nitrophenol	ND	3300	Pentachlorophenol	ND	16500
2,4-Dimethylphenol	ND	3300	Phenanthrene	ND	3300
bis(2-Chloroethoxy)methane	ND	3300	Anthracene	ND	3300
2,4-Dichlorophenol	ND	3300	Di-n-butylphthalate	ND	3300
Benzoic Acid	ND	16500	Fluoranthene	ND	3300
1,2,4-Trichlorobenzene	ND	3300	Pyrene	ND	3300
Naphthalene	ND	3300	Butylbenzylphthalate	ND	3300
4-Chloroaniline	ND	6600	Benzo[a]anthracene	ND	3300
Hexachlorobutadiene	ND	3300	3,3'-Dichlorobenzidine	ND	6600
4-Chloro-3-methylphenol	ND	6600	Chrysene	ND	3300
2-Methylnaphthalene	ND	3300	bis(2-Ethylhexyl)phthalate	ND	3300
Hexachlorocyclopentadiene	ND	6600	Di-n-octylphthalate	ND	3300
2,4,6-Trichlorophenol	ND	3300	Benzo[b]fluoranthene	ND	3300
2,4,5-Trichlorophenol	ND	5000	Benzo[k]fluoranthene	ND	3300
2-Chloronaphthalene	ND	3300	Benzo[a]pyrene	ND	3300
2-Nitroaniline	ND	16500	Indeno[1,2,3-cd]pyrene	ND	3300
Dimethylphthalate	ND	3300	Dibenz[a,h]anthracene	ND	3300
Acenaphthylene	ND	3300	Benzo[g,h,i]perylene	ND	3300
2,6-Dinitrotoluene	ND	3300			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-002
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/03/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B36C1-3

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	DI-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	DI-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h.]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell
 Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B36C1-14


Lab No.: 940103-003
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/03/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

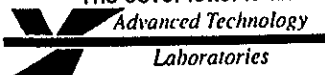
Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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



Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell
 Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B33C1-0


Lab No.: 940103-004
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/03/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h.]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

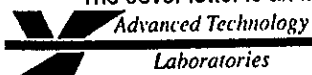
Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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



Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-005
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/03/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B33C1-3

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzolc Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____

Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Advanced Technology
 Laboratories

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-006
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/03/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

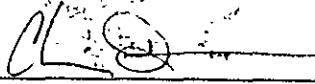
Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B33C1-14

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____

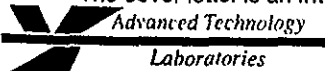


Chris Duncan
 Assistant Laboratory Director

Date: _____

1/12/94

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



Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-007
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/03/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B32C1-0

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzolc Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Advanced Technology
 Laboratories

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-008
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/06/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B32C1-3

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: Chris Duncan Date: 1/17/94
 Chris Duncan
 Assistant Laboratory Director

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-009
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/10/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B32C1-9

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

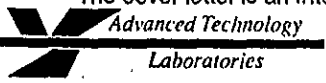
Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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



Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell
 Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B32C1-15


Lab No.: 940103-010
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/10/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h.]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/7/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-002 Dup
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/03/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B36C1-3

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-Blank 1
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/04/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____



Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-LCS 1
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/06/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil

EPA Method 8270

ANALYTE	Results, ug/kg	% Recovery	ANALYTE	Results, ug/kg	% Recovery
Phenol	2720	83	3-Nitroaniline	2520	76
bis(2-Chloroethyl)ether	2340	71	Acenaphthene	2580	78
2-Chlorophenol	2620	79	2,4-Dinitrophenol	2030	61
1,3-Dichlorobenzene	1980	60	Dibenzofuran	2660	81
1,4-Dichlorobenzene	2040	62	4-Nitrophenol	3230	98
Benzyl Alcohol	2570	78	2,4-Dinitrotoluene	2030	86
1,2-Dichlorobenzene	2120	64	Fluorene	2650	80
2-Methylphenol	2700	82	Diethylphthalate	2810	85
bis(2-chloroisopropyl)ether	2570	78	4-Chlorophenyl-phenyl ether	2630	80
n-Nitroso-di-n-propylamine	2580	78	4-Nitroaniline	3260	99
4-Methylphenol	2640	80	4,6-Dinitro-2-methylphenol	2570	78
Hexachloroethane	2180	66	n-Nitrosodiphenylamine	2790	85
Nitrobenzene	2650	80	4-Bromophenyl-phenyl ether	2650	80
Isophorone	2660	81	Hexachlorobenzene	2590	78
2-Nitrophenol	2390	72	Pentachlorophenol	2530	77
2,4-Dimethylphenol	2990	91	Phenanthrene	2730	83
bis(2-Chloroethoxy)methane	2560	78	Anthracene	2780	84
2,4-Dichlorophenol	2670	81	Di-n-butylphthalate	2940	89
Benzolc Acid	1620	49	Fluoranthene	2870	87
1,2,4-Trichlorobenzene	2330	71	Pyrene	2780	84
Naphthalene	2390	73	Butylbenzylphthalate	3000	91
4-Chloroaniline	2270	69	Benzo[a]anthracene	3100	94
Hexachlorobutadiene	2240	68	3,3'-Dichlorobenzidine	N/A	N/A
4-Chloro-3-methylphenol	2900	88	Chrysene	2950	89
2-Methylnaphthalene	2510	76	bis(2-Ethylhexyl)phthalate	3110	94
Hexachlorocyclopentadiene	2380	72	Di-n-octylphthalate	2240	68
2,4,6-Trichlorophenol	2630	80	Benzo[b]fluoranthene	2740	83
2,4,5-Trichlorophenol	2710	82	Benzo[k]fluoranthene	2710	82
2-Chloronaphthalene	2490	75	Benzo[a]pyrene	2990	90
2-Nitroaniline	3050	92	Indeno[1,2,3-cd]pyrene	2880	87
Dimethylphthalate	2800	85	Dibenz[a,h]anthracene	2780	84
Acenaphthylene	2650	80	Benzo[g,h,i]perylene	3180	96
2,6-Dinitrotoluene	2900	88			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 All analytes were spiked at 3300 ppb. (ug/kg)

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Spike Recovery and RPD Summary Report - SOIL (UG/KG)

Method : C:\HPCHEM\1\METHODS\8270X.M
 Title : 625-8270 TCL
 Last Update : Fri Dec 24 14:33:33 1993
 Response via : Continuing Calibration

Non-Spiked Sample: SB290.D

Spike Sample	Spike Duplicate Sample
File ID : SS826.D	SS827.D
Sample : BLK-MS 30G-1ML E-1/3/94	BLK-MSD 30G-1ML E-1/3/94
Acq Time: 24 Dec 93 8:49 pm	24 Dec 93 9:46 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits	
								RPD	% Rec
Phenol	0.0	6600	5825	5776	88	88	1	17	60- 90
2-Chlorophenol	0.0	6600	6371	6108	96	93	4	50	25-102
1,4-Dichlorobenzene	0.0	3300	2207	2154	67	65	2	27	28-104
n-Nitroso-di-n-propy	0.0	3300	2749	2648	67	64	5	20	49-105
1,2,4-Trichlorobenze	0.0	3300	2333	2260	71	68	3	23	38-107
4-Chloro-3-methylphe	0.0	6600	6353	6108	96	93	4	33	26-103
Acenaphthene	0.0	3300	2563	2461	78	75	4	19	31-137
4-Nitrophenol	0.0	6600	6783	6605	103	100	3	50	11-114
2,4-Dinitrotoluene	0.0	3300	2701	2605	82	79	4	10	60- 88
Pentachlorophenol	0.0	6600	5782	5599	88	85	3	12	40- 91
Pyrene	0.0	3300	3174	2923	96	88	8	36	35-142

8270X.M

Sat Dec 25 11:01:37 1993

Reviewed/Approved By:

Tim L. Lebkuécher
 Tim Lebkuécher
 QA/QC Officer

Date: 1/17/94

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-012
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/10/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 50

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B31C2-0

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	16500	3-Nitroaniline	ND	82500
bis(2-Chloroethyl)ether	ND	16500	Acenaphthene	ND	16500
2-Chlorophenol	ND	16500	2,4-Dinitrophenol	ND	82500
1,3-Dichlorobenzene	ND	16500	Dibenzofuran	ND	16500
1,4-Dichlorobenzene	ND	16500	4-Nitrophenol	ND	82500
Benzyl Alcohol	ND	33000	2,4-Dinitrotoluene	ND	16500
1,2-Dichlorobenzene	ND	16500	Fluorene	ND	16500
2-Methylphenol	ND	16500	Diethylphthalate	ND	16500
bis(2-chloroisopropyl)ether	ND	16500	4-Chlorophenyl-phenyl ether	ND	16500
n-Nitroso-di-n-propylamine	ND	16500	4-Nitroaniline	ND	82500
4-Methylphenol	ND	16500	4,6-Dinitro-2-methylphenol	ND	82500
Hexachloroethane	ND	16500	n-Nitrosodiphenylamine	ND	16500
Nitrobenzene	ND	16500	4-Bromophenyl-phenyl ether	ND	16500
Isophorone	ND	16500	Hexachlorobenzene	ND	16500
2-Nitrophenol	ND	16500	Pentachlorophenol	ND	82500
2,4-Dimethylphenol	ND	16500	Phenanthrene	ND	16500
bis(2-Chloroethoxy)methane	ND	16500	Anthracene	ND	16500
2,4-Dichlorophenol	ND	16500	Di-n-butylphthalate	ND	16500
Benzolc Acid	ND	82500	Fluoranthene	ND	16500
1,2,4-Trichlorobenzene	ND	16500	Pyrene	ND	16500
Naphthalene	ND	16500	Butylbenzylphthalate	ND	16500
4-Chloroaniline	ND	33000	Benzo[a]anthracene	ND	16500
Hexachlorobutadiene	ND	16500	3,3'-Dichlorobenzidine	ND	33000
4-Chloro-3-methylphenol	ND	33000	Chrysene	ND	16500
2-Methylnaphthalene	ND	16500	bis(2-Ethylhexyl)phthalate	ND	16500
Hexachlorocyclopentadiene	ND	33000	Di-n-octylphthalate	ND	16500
2,4,6-Trichlorophenol	ND	16500	Benzo[b]fluoranthene	ND	16500
2,4,5-Trichlorophenol	ND	25000	Benzo[k]fluoranthene	ND	16500
2-Chloronaphthalene	ND	16500	Benzo[a]pyrene	ND	16500
2-Nitroaniline	ND	82500	Indeno[1,2,3-cd]pyrene	ND	16500
Dimethylphthalate	ND	16500	Dibenz[a,h]anthracene	ND	16500
Acenaphthylene	ND	16500	Benzo[g,h,i]perylene	ND	16500
2,6-Dinitrotoluene	ND	16500			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-013
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/06/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B31C2-3

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-014
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/10/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B31C2-15

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzole Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-015
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/10/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B31C1-0

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzolc Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-016
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/06/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

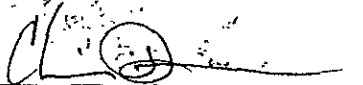
Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B31C1-3

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diallylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzole Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-017
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/06/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B30C1-0

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzolc Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-018
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/06/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B30C1-3

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-021
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/10/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B31C1-9

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____

Chris Duncan

Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-022
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/10/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B31C1-15

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: Chris Duncan Date: 1/17/94
 Chris Duncan
 Assistant Laboratory Director

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-016 Dup
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/10/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

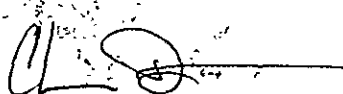
Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B31C1-3

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-dl-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____



Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-Blank 2
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/06/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil

EPA Method 8270

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Phenol	ND	330	3-Nitroaniline	ND	1650
bis(2-Chloroethyl)ether	ND	330	Acenaphthene	ND	330
2-Chlorophenol	ND	330	2,4-Dinitrophenol	ND	1650
1,3-Dichlorobenzene	ND	330	Dibenzofuran	ND	330
1,4-Dichlorobenzene	ND	330	4-Nitrophenol	ND	1650
Benzyl Alcohol	ND	660	2,4-Dinitrotoluene	ND	330
1,2-Dichlorobenzene	ND	330	Fluorene	ND	330
2-Methylphenol	ND	330	Diethylphthalate	ND	330
bis(2-chloroisopropyl)ether	ND	330	4-Chlorophenyl-phenyl ether	ND	330
n-Nitroso-di-n-propylamine	ND	330	4-Nitroaniline	ND	1650
4-Methylphenol	ND	330	4,6-Dinitro-2-methylphenol	ND	1650
Hexachloroethane	ND	330	n-Nitrosodiphenylamine	ND	330
Nitrobenzene	ND	330	4-Bromophenyl-phenyl ether	ND	330
Isophorone	ND	330	Hexachlorobenzene	ND	330
2-Nitrophenol	ND	330	Pentachlorophenol	ND	1650
2,4-Dimethylphenol	ND	330	Phenanthrene	ND	330
bis(2-Chloroethoxy)methane	ND	330	Anthracene	ND	330
2,4-Dichlorophenol	ND	330	Di-n-butylphthalate	ND	330
Benzoic Acid	ND	1650	Fluoranthene	ND	330
1,2,4-Trichlorobenzene	ND	330	Pyrene	ND	330
Naphthalene	ND	330	Butylbenzylphthalate	ND	330
4-Chloroaniline	ND	660	Benzo[a]anthracene	ND	330
Hexachlorobutadiene	ND	330	3,3'-Dichlorobenzidine	ND	660
4-Chloro-3-methylphenol	ND	660	Chrysene	ND	330
2-Methylnaphthalene	ND	330	bis(2-Ethylhexyl)phthalate	ND	330
Hexachlorocyclopentadiene	ND	660	Di-n-octylphthalate	ND	330
2,4,6-Trichlorophenol	ND	330	Benzo[b]fluoranthene	ND	330
2,4,5-Trichlorophenol	ND	500	Benzo[k]fluoranthene	ND	330
2-Chloronaphthalene	ND	330	Benzo[a]pyrene	ND	330
2-Nitroaniline	ND	1650	Indeno[1,2,3-cd]pyrene	ND	330
Dimethylphthalate	ND	330	Dibenz[a,h]anthracene	ND	330
Acenaphthylene	ND	330	Benzo[g,h,i]perylene	ND	330
2,6-Dinitrotoluene	ND	330			

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

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-LCS 2
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/06/94
 Extraction Method: 3550
 Extraction Material: Acetone / Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil

EPA Method 8270

ANALYTE	Results, ug/kg	% Recovery	ANALYTE	Results, ug/kg	% Recovery
Phenol	2820	85	3-Nitroaniline	2290	69
bis(2-Chloroethyl)ether	2450	74	Acenaphthene	2570	78
2-Chlorophenol	2710	82	2,4-Dinitrophenol	2720	83
1,3-Dichlorobenzene	2110	64	Dibenzofuran	2670	81
1,4-Dichlorobenzene	2080	63	4-Nitrophenol	3010	91
Benzyl Alcohol	2380	72	2,4-Dinitrotoluene	2840	83
1,2-Dichlorobenzene	2250	68	Fluorene	2650	80
2-Methylphenol	2860	87	Diethylphthalate	2870	87
bis(2-chloroisopropyl)ether	2660	81	4-Chlorophenyl-phenyl ether	2700	82
n-Nitroso-di-n-propylamine	2280	69	4-Nitroaniline	3380	102
4-Methylphenol	2700	82	4,6-Dinitro-2-methylphenol	2840	86
Hexachloroethane	2290	70	n-Nitrosodiphenylamine	2810	85
Nitrobenzene	2700	82	4-Bromophenyl-phenyl ether	2680	81
Isophorone	2670	81	Hexachlorobenzene	2660	81
2-Nitrophenol	2410	73	Pentachlorophenol	2690	82
2,4-Dimethylphenol	3120	94	Phenanthrene	2760	84
bis(2-Chloroethoxy)methane	2610	78	Anthracene	2790	84
2,4-Dichlorophenol	2680	81	Di-n-butylphthalate	2930	89
Benzolc Acid	1720	52	Fluoranthene	2940	89
1,2,4-Trichlorobenzene	2410	73	Pyrene	2680	81
Naphthalene	2450	73	Butylbenzylphthalate	2820	86
4-Chloroaniline	2010	61	Benzo[a]anthracene	2890	88
Hexachlorobutadiene	2350	71	3,3'-Dichlorobenzidine	NA	NA
4-Chloro-3-methylphenol	2910	88	Chrysene	2800	85
2-Methylnaphthalene	2550	77	bis(2-Ethylhexyl)phthalate	2900	88
Hexachlorocyclopentadiene	2520	76	Di-n-octylphthalate	2100	64
2,4,6-Trichlorophenol	2600	80	Benzo[b]fluoranthene	2360	72
2,4,5-Trichlorophenol	2760	84	Benzo[k]fluoranthene	2680	81
2-Chloronaphthalene	2570	78	Benzo[a]pyrene	2850	86
2-Nitroaniline	3080	93	Indeno[1,2,3-cd]pyrene	2840	86
Dimethylphthalate	2790	85	Dibenz[a,h]anthracene	2650	80
Acenaphthylene	2690	81	Benzo[g,h,i]perylene	3100	94
2,6-Dinitrotoluene	2790	85			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 All analytes were spiked 3300 ug/kg.

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-042
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/12-13/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 5


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B28C2-0

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	10	Aroclor-1016	ND	33 *
Gamma-BHC (Lindane)	ND	10	Aroclor-1221	ND	67 *
Beta-BHC	312	10	Aroclor-1232	ND	33 *
Heptachlor	ND	10	Aroclor-1242	ND	33 *
Delta-BHC	ND	10	Aroclor-1248	ND	33 *
Aldrin	ND	10	Aroclor-1254	ND	33 *
Heptachlor Epoxide	54	10	Aroclor-1260	170	33 *
Endosulfan I	ND	10	Aroclor-1262	ND	33 *
4,4'-DDE	ND	20			
Dieldrin	ND	20			
Endrin	ND	20			
4,4'-DDD	ND	20			
Endosulfan II	ND	20			
4,4'-DDT	32	20			
Endrin Aldehyde	ND	20			
Endosulfan Sulfate	ND	20			
Methoxychlor	ND	85			
Chlordane	ND	85			
Toxaphene	ND	850			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor
 * = Dilution factor is 1.

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Advanced Technology

Laboratories

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-043
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/10-12/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B28C2-2

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	51	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	15	2	Aroclor-1260	62	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	17	4			
Endosulfan II	ND	4			
4,4'-DDT	10	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Advanced Technology
 Laboratories

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell


Lab No.: 940104-044
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/10/94
 Extraction Method: 3550
 Extraction Material: Methylene
 Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B32C2-0

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

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

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-045
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/10/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B32C2-3

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By:


 Chris Duncan
 Assistant Laboratory Director

Date:

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-046
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/10/94
 Extraction Method: 3550
 Extraction Material: Methylene
 Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B32C2-9

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-047
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/10-12/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B33C2-0

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	3.6	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	75	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	5.2	4			
Endosulfan II	ND	4			
4,4'-DDT	5.6	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

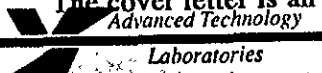
MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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



Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B33C2-3

Lab No.: 940104-048
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/10/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-049
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/10/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B33C2-9

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-050
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/10/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B36C2-0

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-051
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/10/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B36C2-3

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-021 Dup
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/05/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B31C1-9

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell


Lab No.: 940103-021
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/05/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B31C1-9

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

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

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-Blank 1
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/10/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By:


 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil

Lab No.: 940104-LCS 1
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/10/94
 Date Analyzed: 01/13-14/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

EPA Method 8080

ANALYTE	Results, ug/kg	% Recovery	ANALYTE	Results, ug/kg	% Recovery
Alpha-BHC	3.5	52	Aroclor-1016	NA	NA
Gamma-BHC (Lindane)	3.6	54	Aroclor-1221	NA	NA
Beta-BHC	4	60	Aroclor-1232	NA	NA
Heptachlor	4	60	Aroclor-1242	NA	NA
Delta-BHC	3.8	57	Aroclor-1248	NA	NA
Aldrin	3.6	54	Aroclor-1254	69	102
Heptachlor Epoxide	4.2	63	Aroclor-1260	NA	NA
Endosulfan I	4.3	64	Aroclor-1262	NA	NA
4,4'-DDE	4.3	64			
Dieldrin	4.4	66			
Endrin	4	60			
4,4'-DDD	4.6	69			
Endosulfan II	4.6	69			
4,4'-DDT	4.5	67			
Endrin Aldehyde	NA	NA			
Endosulfan Sulfate	4.3	64			
Methoxychlor	23	85			
Chlordane	NA	NA			
Toxaphene	NA	NA			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 Aroclor 1254 was spiked at 67 ug/kg.
 All analytes were spiked at 6.7 ug/kg except methoxychlor which was spiked at 27 ug/kg.

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-052
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/10/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B36C2-6

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Water
 Sample ID: De Con 1


Lab No.: 940104-053
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/10/94
 Date Analyzed: 01/12-13/94
 Extraction Method: 3510
 Extraction Material: Methylene
 Chloride / Hexane
 Dilution Factor: 1

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	0.05	Aroclor-1016	ND	1
Gamma-BHC (Lindane)	ND	0.05	Aroclor-1221	ND	2
Beta-BHC	ND	0.05	Aroclor-1232	ND	1
Heptachlor	ND	0.05	Aroclor-1242	ND	1
Delta-BHC	ND	0.05	Aroclor-1248	ND	1
Aldrin	ND	0.05	Aroclor-1254	ND	1
Heptachlor Epoxide	ND	0.05	Aroclor-1260	ND	1
Endosulfan I	ND	0.05	Aroclor-1262	ND	1
4,4'-DDE	ND	0.1			
Dieldrin	ND	0.1			
Endrin	ND	0.1			
4,4'-DDD	ND	0.1			
Endosulfan II	ND	0.1			
4,4'-DDT	ND	0.1			
Endrin Aldehyde	ND	0.1			
Endosulfan Sulfate	ND	0.1			
Methoxychlor	ND	0.5			
Chlordane	ND	0.5			
Toxaphene	ND	5			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By:


 Chris Duncan
 Assistant Laboratory Director

Date:

1/17/94

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

Advanced Technology
 Laboratories

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-050 Dup
 Date Sampled: 12/31/94
 Date Received: 01/04/94
 Date Extracted: 01/06/94
 Date Analyzed: 01/10/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B36C2-0

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-Blank 2
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/10/94
 Date Analyzed: 01/13/94
 Extraction Method: 3510
 Extraction Material: Methylene
 Chloride / Hexane
 Dilution Factor: 1

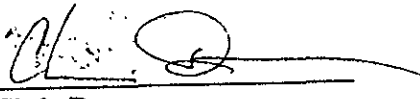
Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Water

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	0.05	Aroclor-1016	ND	1
Gamma-BHC (Lindane)	ND	0.05	Aroclor-1221	ND	2
Beta-BHC	ND	0.05	Aroclor-1232	ND	1
Heptachlor	ND	0.05	Aroclor-1242	ND	1
Delta-BHC	ND	0.05	Aroclor-1248	ND	1
Aldrin	ND	0.05	Aroclor-1254	ND	1
Heptachlor Epoxide	ND	0.05	Aroclor-1260	ND	1
Endosulfan I	ND	0.05	Aroclor-1262	ND	1
4,4'-DDE	ND	0.1			
Dieldrin	ND	0.1			
Endrin	ND	0.1			
4,4'-DDD	ND	0.1			
Endosulfan II	ND	0.1			
4,4'-DDT	ND	0.1			
Endrin Aldehyde	ND	0.1			
Endosulfan Sulfate	ND	0.1			
Methoxychlor	ND	0.5			
Chlordane	ND	0.5			
Toxaphene	ND	5			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Spike Recovery and RPD Summary Report

Method: 8080(PEST)
 Analyst: BI
 Data File: 008-WAT

Date: 01/08/94
 Sample ID: BLANK
 Matrix: WATER

ANALYTE	UNITS	LCS	METH BLANK	SPL CONC	SPIKE ADDED	MS RESULT	MSD RESULT	%MS REC	%MSD REC	%REC Limi	RPD	RPD Limit	DUR
g-BHC	ug/L	NA	ND	ND	0.20	0.12	0.11	60	55	34-116	9	24	0.05
Heptachlor	ug/L	NA	ND	ND	0.20	0.11	0.10	55	50	27-134	10	28	0.05
Aldrin	ug/L	NA	ND	ND	0.20	0.12	0.11	60	55	39-149	9	17	0.05
Dieldrin	ug/L	NA	ND	ND	0.40	0.24	0.23	60	58	39-118	4	15	0.1
Endrin	ug/L	NA	ND	ND	0.40	0.21	0.21	53	53	37-121	0	21	0.1
4,4'-DDT	ug/L	NA	ND	ND	0.40	0.25	0.24	63	60	40-118	0	13	0.1

Approved by: Tim L. Lebkuecher
 Tim Lebkuecher
 QA/QC Officer

Date: 1/17/94

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-001
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/04-05/94
 Extraction Method: 3550
 Extraction Material: Methylene
 Chloride / Hexane
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B36C1-0

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	14	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	95	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	13	4			
Endosulfan II	ND	4			
4,4'-DDT	26	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B36C1-3

Lab No.: 940103-002
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/04/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-003
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/04/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B36C1-14

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-004
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/04/94
 Extraction Method: 3550
 Extraction Material: Methylene
 Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B33C1-0

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-005
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/04/94
 Extraction Method: 3550
 Extraction Material: Methylene
 Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B33C1-3

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B33C1-14

Lab No.: 940103-006
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/04/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

EPA Method 8080

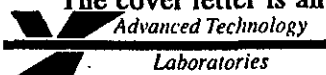
ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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



Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B32C1-0

Lab No.: 940103-007
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/04/94
 Extraction Method: 3550
 Extraction Material: Methylene
 Chloride / Hexane
 Dilution Factor: 1

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-008
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/04/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B32C1-3

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B32C1-9

Lab No.: 940103-009
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/04/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-010
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/04/94
 Extraction Method: 3550
 Extraction Material: Methylene
 Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B32C1-15

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-002 Dup
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/04/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B36C1-3

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil

Lab No.: 940103-Blank 1
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/04/94
 Extraction Method: 3550
 Extraction Material: Methylene
 Chloride / Hexane
 Dilution Factor: 1

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-LCS 1
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/04/94
 Extraction Method: 3550
 Extraction Material: Methylene
 Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil

EPA Method 8080

ANALYTE	Results, ug/kg	% Recovery	ANALYTE	Results, ug/kg	% Recovery
Alpha-BHC	5.8	87	Aroclor-1016	NA	NA
Gamma-BHC (Lindane)	6.0	90	Aroclor-1221	NA	NA
Beta-BHC	5.9	103	Aroclor-1232	NA	NA
Heptachlor	5.6	84	Aroclor-1242	NA	NA
Delta-BHC	7.7	115	Aroclor-1248	NA	NA
Aldrin	5.7	85	Aroclor-1254	65	97
Heptachlor Epoxide	6.6	99	Aroclor-1260	NA	NA
Endosulfan I	6.6	99	Aroclor-1262	NA	NA
4,4'-DDE	6.7	100			
Dieldrin	7.4	110			
Endrin	5.7	85			
4,4'-DDD	7.6	113			
Endosulfan II	7	104			
4,4'-DDT	8	119			
Endrin Aldehyde	6.9	103			
Endosulfan Sulfate	8.1	120			
Methoxychlor	34	103			
Chlordane	NA	NA			
Toxaphene	NA	NA			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 Aroclor 1254 was spiked at 67 ug/kg.
 All analytes were spiked at 6.7 ug/kg except methylene chloride which was spiked at 27 ug/kg.

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-012
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/05/94
 Extraction Method: 3550
 Extraction Material: Methylene
 Chloride / Hexane
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B31C2-0

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Advanced Technology
 Laboratories

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-013
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/05/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B31C2-3

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-014
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/05/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B31C2-15

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-015
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/05/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B31C1-0

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-016
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/05/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B31C1-3

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-017
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/05/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B30C1-0

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-018
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/05/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B30C1-3

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-021
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/05/94
 Extraction Method: 3550
 Extraction Material: Methylene
 Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B31C1-9

EPA Method 8080

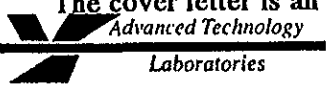
ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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



Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B31C1-15

Lab No.: 940103-022
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/05/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B31C1-9

Lab No.: 940103-021 Dup
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/05/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-Blank 2
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/03/94
 Date Analyzed: 01/05/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil

EPA Method 8080

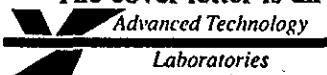
ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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



Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell


Lab No.: 940103-LCS 2
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/04/94
 Date Analyzed: 01/05/94
 Extraction Method: 3550
 Extraction Material: Methylene
 Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil

EPA Method 8080

ANALYTE	Results, ug/kg	% Recovery	ANALYTE	Results, ug/kg	% Recovery
Alpha-BHC	6.0	90	Aroclor-1016	NA	NA
Gamma-BHC (Lindane)	6.0	90	Aroclor-1221	NA	NA
Beta-BHC	7.0	105	Aroclor-1232	NA	NA
Heptachlor	6.3	95	Aroclor-1242	NA	NA
Delta-BHC	6.0	90	Aroclor-1248	NA	NA
Aldrin	6.0	90	Aroclor-1254	61	91
Heptachlor Epoxide	6.7	100	Aroclor-1260	NA	NA
Endosulfan I	7.0	105	Aroclor-1262	NA	NA
4,4'-DDE	7.0	105			
Dieldrin	7.3	110			
Endrin	7.7	115			
4,4'-DDD	7.7	115			
Endosulfan II	7.3	110			
4,4'-DDT	7.3	110			
Endrin Aldehyde	6.0	90			
Endosulfan Sulfate	7.0	105			
Methoxychlor	33	122			
Chlordane	NA	NA			
Toxaphene	NA	NA			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor
 Aroclor 1254 was spiked at 67 ug/kg.
 All analytes were spiked at 6.7 ug/kg except methoxychlor which was spiked at 27 ug/kg.

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-008
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/06-07/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 5


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B24C1-0

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	10	Aroclor-1016	ND	* 33
Gamma-BHC (Lindane)	ND	10	Aroclor-1221	ND	* 67
Beta-BHC	112	10	Aroclor-1232	ND	* 33
Heptachlor	ND	10	Aroclor-1242	ND	* 33
Delta-BHC	ND	10	Aroclor-1248	ND	* 33
Aldrin	ND	10	Aroclor-1254	ND	* 33
Heptachlor Epoxide	26	10	Aroclor-1260	136	* 33
Endosulfan I	ND	10	Aroclor-1262	ND	* 33
4,4'-DDE	ND	20			
Dieldrin	ND	20			
Endrin	ND	20			
4,4'-DDD	ND	20			
Endosulfan II	ND	20			
4,4'-DDT	25	20			
Endrin Aldehyde	ND	20			
Endosulfan Sulfate	ND	20			
Methoxychlor	ND	85			
Chlordane	ND	85			
Toxaphene	ND	850			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor
 * = Dilution Factor is 1

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-009
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/07-08/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B24C1-0

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell


Lab No.: 940104-010
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/07-08/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B24C1-3

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/12/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-011
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/07-08/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B25C1-0

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell


Lab No.: 940104-012
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/07-08/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B25C1-0

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	11	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-013
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/07-08/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B25C1-7

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan

Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell


Lab No.: 940104-014
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/06-07/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 5

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B26C1-0

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	10	Aroclor-1016	ND	* 33
Gamma-BHC (Lindane)	ND	10	Aroclor-1221	ND	* 67
Beta-BHC	208	10	Aroclor-1232	ND	* 33
Heptachlor	ND	10	Aroclor-1242	ND	* 33
Delta-BHC	ND	10	Aroclor-1248	ND	* 33
Aldrin	ND	10	Aroclor-1254	ND	* 33
Heptachlor Epoxide	53	10	Aroclor-1260	124	* 33
Endosulfan I	ND	10	Aroclor-1262	ND	* 33
4,4'-DDE	ND	20			
Dieldrin	ND	20			
Endrin	ND	20			
4,4'-DDD	ND	20			
Endosulfan II	ND	20			
4,4'-DDT	ND	20			
Endrin Aldehyde	ND	20			
Endosulfan Sulfate	ND	20			
Methoxychlor	ND	85			
Chlordane	ND	85			
Toxaphene	ND	850			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor
 * = Dilution Factor is 1

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-015
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/07-08/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B26C1-3

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	34	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	7	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-016
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/07-08/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B27C1-0

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	19	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	6.9	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	4.8	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-017
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/07-12/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B27C1-5

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-010 Dup
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/06/94
 Date Analyzed: 01/08/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B24C1-3

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
Address: 5772 Bolsa Avenue, Suite 230
Huntington Beach, CA 92649
Attn: Ms. Jane Campbell

Lab No.: 940104-018
Date Sampled: 12/30/93
Date Received: 01/04/94
Date Extracted: 01/05/94
Date Analyzed: 01/07-08/94
Extraction Method: 3550
Extraction Material: Methylene Chloride /
Hexane
Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
Caltrans T.O. # 04-04343K-01
Matrix: Soil
Sample ID: B27C1-8

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
ND = Not Detected (Below DLR).
DLR = MDL X Dilution Factor

Reviewed/Approved By: 

Chris Duncan
Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-019
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/07-08/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B29C1-0

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	6.2	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-020
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/06/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B29C1-3

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-021
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/06/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B29C1-16

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-022
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/07-08/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B24C2-0

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	38	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan

Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-023
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/06-07/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B24C2-7

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-024
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/07-08/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B24C2-11

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-025
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/07-08/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B25C2-3

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell


Lab No.: 940104-026
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/08/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B26C2-0

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	29	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	7.7	2	Aroclor-1260	34	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/12/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-027
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/08/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B27C2-3

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-Blank 2
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/07/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-021 Dup
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/06/94
 Date Analyzed: 01/06/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B29C1-16

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-LCS 2
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/06/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil

EPA Method 8080

ANALYTE	Results, ug/kg	% Recovery	ANALYTE	Results, ug/kg	% Recovery
Alpha-BHC	6.0	90	Aroclor-1016	NA	NA
Gamma-BHC (Lindane)	6.2	93	Aroclor-1221	NA	NA
Beta-BHC	6.9	103	Aroclor-1232	NA	NA
Heptachlor	6.3	94	Aroclor-1242	NA	NA
Delta-BHC	6.3	94	Aroclor-1248	NA	NA
Aldrin	5.9	88	Aroclor-1254	63	94
Heptachlor Epoxide	6.6	99	Aroclor-1260	NA	NA
Endosulfan I	6.6	99	Aroclor-1262	NA	NA
4,4'-DDE	6.7	100			
Dieldrin	7.0	104			
Endrin	6.8	101			
4,4'-DDD	7.2	107			
Endosulfan II	6.9	103			
4,4'-DDT	6.9	103			
Endrin Aldehyde	5.7	85			
Endosulfan Sulfate	6.8	101			
Methoxychlor	32	119			
Chlordane	NA	NA			
Toxaphene	NA	NA			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 Aroclor 1254 was spiked at 67 ug/kg.
 All analytes were spiked at 6.7 ug/kg except methoxychlor which was spiked at 27 ug/kg.

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-028
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/06/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B27C2-7

EPA Method 8080

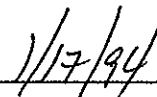
ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____



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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-029
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/12/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B27C2-11

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-030
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/07-08/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B29C2-0

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-031
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/06-08/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B29C2-3

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: CLD
 Cliris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell


Lab No.: 940104-032
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/06/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B29C2-16

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-033
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/07-08/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B30C2-0

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	15	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	171	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	24	4			
Endosulfan II	ND	4			
4,4'-DDT	8.4	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-034
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/06/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B30C2-3

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-035
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/06/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B30C2-16

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
Address: 5772 Bolsa Avenue, Suite 230
Huntington Beach, CA 92649
Attn: Ms. Jane Campbell

Lab No.: 940104-039
Date Sampled: 12/30/93
Date Received: 01/04/94
Date Extracted: 01/06/94
Date Analyzed: 01/08-10/94
Extraction Method: 3510
Extraction Material: Methylene Chloride /
Hexane
Dilution Factor: 1.4


Project: Bay Bridge 153 DT Oakland, CA
Caltrans T.O. # 04-04343K-01
Matrix: Water
Sample ID: B24C1-W

EPA Method 8080

ANALYTE	Results, ug/l	DLR, ug/l	ANALYTE	Results, ug/l	DLR, ug/l
Alpha-BHC	ND	0.07	Aroclor-1016	ND	1.4
Gamma-BHC (Lindane)	ND	0.07	Aroclor-1221	ND	2.8
Beta-BHC	ND	0.07	Aroclor-1232	ND	1.4
Heptachlor	ND	0.07	Aroclor-1242	ND	1.4
Delta-BHC	ND	0.07	Aroclor-1248	ND	1.4
Aldrin	ND	0.07	Aroclor-1254	ND	1.4
Heptachlor Epoxide	ND	0.07	Aroclor-1260	ND	1.4
Endosulfan I	ND	0.07	Aroclor-1262	ND	1.4
4,4'-DDE	ND	0.14			
Dieldrin	ND	0.14			
Endrin	ND	0.14			
4,4'-DDD	ND	0.14			
Endosulfan II	ND	0.14			
4,4'-DDT	ND	0.14			
Endrin Aldehyde	ND	0.14			
Endosulfan Sulfate	ND	0.14			
Methoxychlor	ND	0.7			
Chlordane	ND	0.7			
Toxaphene	ND	7			

MDL = Method Detection Limit
ND = Not Detected (Below DLR).
DLR = MDL X Dilution Factor

Reviewed/Approved By: _____


Chris Duncan
Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-040
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/06/94
 Date Analyzed: 01/08/94
 Extraction Method: 3510
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1.2

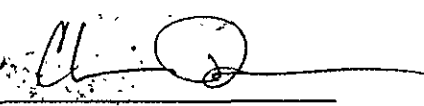
Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Water
 Sample ID: B25C1-W

EPA Method 8080

ANALYTE	Results, ug/l	DLR, ug/l	ANALYTE	Results, ug/l	DLR, ug/l
Alpha-BHC	ND	0.06	Aroclor-1016	ND	1.2
Gamma-BHC (Lindane)	ND	0.06	Aroclor-1221	ND	2.4
Beta-BHC	ND	0.06	Aroclor-1232	ND	1.2
Heptachlor	ND	0.06	Aroclor-1242	ND	1.2
Delta-BHC	ND	0.06	Aroclor-1248	ND	1.2
Aldrin	ND	0.06	Aroclor-1254	ND	1.2
Heptachlor Epoxide	ND	0.06	Aroclor-1260	ND	1.2
Endosulfan I	ND	0.06	Aroclor-1262	ND	1.2
4,4'-DDE	ND	0.12			
Dieldrin	ND	0.12			
Endrin	ND	0.12			
4,4'-DDD	ND	0.12			
Endosulfan II	ND	0.12			
4,4'-DDT	ND	0.12			
Endrin Aldehyde	ND	0.12			
Endosulfan Sulfate	ND	0.12			
Methoxychlor	ND	0.6			
Chlordane	ND	0.6			
Toxaphene	ND	6			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-Blank 3
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/07/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-031 Dup
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/07/94
 Date Analyzed: 01/08/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B29C2-3

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell


Lab No.: 940104-LCS 3
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/07-10/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil

EPA Method 8080

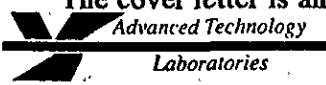
ANALYTE	Results, ug/kg	% Recovery	ANALYTE	Results, ug/kg	% Recovery
Alpha-BHC	5.9	88	Aroclor-1016	NA	NA
Gamma-BHC (Lindane)	6.1	91	Aroclor-1221	NA	NA
Beta-BHC	6.8	101	Aroclor-1232	NA	NA
Heptachlor	5.9	88	Aroclor-1242	NA	NA
Delta-BHC	5.6	84	Aroclor-1248	NA	NA
Aldrin	5.8	87	Aroclor-1254	66	98
Heptachlor Epoxide	6.3	94	Aroclor-1260	NA	NA
Endosulfan I	6.5	97	Aroclor-1262	NA	NA
4,4'-DDE	6.7	100			
Dieldrin	6.9	103			
Endrin	5.9	88			
4,4'-DDD	6.9	103			
Endosulfan II	6.5	97			
4,4'-DDT	5.6	84			
Endrin Aldehyde	5.6	84			
Endosulfan Sulfate	6.1	91			
Methoxychlor	25	93			
Chlordane	NA	NA			
Toxaphene	NA	NA			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor
 Aroclor 1254 was spiked at 67 ug/kg.
 All analytes were spiked at 6.7 ug/kg except methoxychlor which was spiked at 27 ug/kg.

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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



Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-050 Dup
 Date Sampled: 12/31/94
 Date Received: 01/04/94
 Date Extracted: 01/06/94
 Date Analyzed: 01/10/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample ID: B36C2-0

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-050
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/10/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Soil
 Sample ID: B36C2-0

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-Blank 4
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/06/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil

Dilution Factor: 1

EPA Method 8080

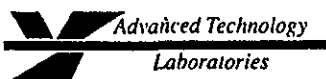
ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	2	Aroclor-1016	ND	33
Gamma-BHC (Lindane)	ND	2	Aroclor-1221	ND	67
Beta-BHC	ND	2	Aroclor-1232	ND	33
Heptachlor	ND	2	Aroclor-1242	ND	33
Delta-BHC	ND	2	Aroclor-1248	ND	33
Aldrin	ND	2	Aroclor-1254	ND	33
Heptachlor Epoxide	ND	2	Aroclor-1260	ND	33
Endosulfan I	ND	2	Aroclor-1262	ND	33
4,4'-DDE	ND	4			
Dieldrin	ND	4			
Endrin	ND	4			
4,4'-DDD	ND	4			
Endosulfan II	ND	4			
4,4'-DDT	ND	4			
Endrin Aldehyde	ND	4			
Endosulfan Sulfate	ND	4			
Methoxychlor	ND	17			
Chlordane	ND	17			
Toxaphene	ND	170			

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

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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



Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-LCS 4
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/07/94
 Extraction Method: 3550
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil

EPA Method 8080

ANALYTE	Results, ug/kg	% Recovery	ANALYTE	Results, ug/kg	% Recovery
Alpha-BHC	5.7	85	Aroclor-1016	NA	NA
Gamma-BHC (Lindane)	5.8	87	Aroclor-1221	NA	NA
Beta-BHC	6.8	101	Aroclor-1232	NA	NA
Heptachlor	5.9	88	Aroclor-1242	NA	NA
Delta-BHC	5.2	78	Aroclor-1248	NA	NA
Aldrin	5.7	85	Aroclor-1254	76	113
Heptachlor Epoxide	6.1	91	Aroclor-1260	NA	NA
Endosulfan I	6.3	94	Aroclor-1262	NA	NA
4,4'-DDE	6.5	97			
Dieldrin	6.6	99			
Endrin	5.8	87			
4,4'-DDD	6.5	97			
Endosulfan II	6.3	94			
4,4'-DDT	5.9	88			
Endrin Aldehyde	5.9	88			
Endosulfan Sulfate	5.6	84			
Methoxychlor	24	89			
Chlordane	NA	NA			
Toxaphene	NA	NA			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor
 Aroclor 1254 was spiked at 67 ug/kg.
 All analytes were spiked at 6.7 ug/kg except methoxychlor which was spiked at 27 ug/kg.

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940122-028 Dup
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Digested: 01/24/94
 Date Analyzed: 01/24/94

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: Decon

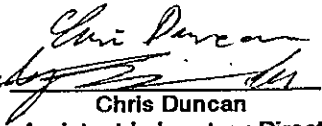
SPL WT	100.0
FINAL VOL	100
Dilution	1

CAC Metals
 Results in mg/kg

Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	200.7	500	PASS	5	PASS	2.00	0.10	ND
Cadmium	200.7	100	PASS	1	PASS	0.50	0.03	ND
Chromium, T *	200.7	2500	PASS	5/560	PASS	0.50	0.03	0.2
Lead	200.7	1000	PASS	5	PASS	1.00	0.05	0.88
Zinc	200.7	5000	PASS	250	PASS	0.50	0.03	0.58

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/24/94^{CO}

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940122-028
 Date Sampled: 01/20/94
 Date Received: 01/22/94
 Date Digested: 01/24/94
 Date Analyzed: 01/24/94

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: Decon

SPL WT	100.0
FINAL VOL	100
Dilution	1

CAC Metals Results, in mg/kg								
Analyte	EPA Method	TTLIC Limit	TTLIC Action level	STLC Limit	10x STLC Action level	MDL	DLR	RESULTS
Arsenic	200.7	500	PASS	5	PASS	2.00	0.10	ND
Cadmium	200.7	100	PASS	1	PASS	0.50	0.03	ND
Chromium, T *	200.7	2500	PASS	5/560	PASS	0.50	0.03	0.32
Lead	200.7	1000	PASS	5	PASS	1.00	0.05	1.2
Zinc	200.7	5000	PASS	250	PASS	0.50	0.03	0.40

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: Chris Duncan Date: 1/24/94
 Chris Duncan
 Assistant Laboratory Director

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940122-Blank
 Date Sampled: 01/22/94
 Date Received: 01/22/94
 Date Extracted: 01/24/94
 Date Analyzed: 01/24/94
 Extraction Method: 3510
 Extraction Material: Methylene
 Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Water

EPA Method 8080

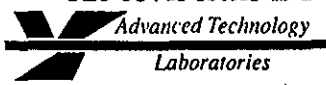
ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	0.05	Aroclor-1016	ND	1
Gamma-BHC (Lindane)	ND	0.05	Aroclor-1221	ND	2
Beta-BHC	ND	0.05	Aroclor-1232	ND	1
Heptachlor	ND	0.05	Aroclor-1242	ND	1
Delta-BHC	ND	0.05	Aroclor-1248	ND	1
Aldrin	ND	0.05	Aroclor-1254	ND	1
Heptachlor Epoxide	ND	0.05	Aroclor-1260	ND	1
Endosulfan I	ND	0.05	Aroclor-1262	ND	1
4,4'-DDE	ND	0.1			
Dieldrin	ND	0.1			
Endrin	ND	0.1			
4,4'-DDD	ND	0.1			
Endosulfan II	ND	0.1			
4,4'-DDT	ND	0.1			
Endrin Aldehyde	ND	0.1			
Endosulfan Sulfate	ND	0.1			
Methoxychlor	ND	0.5			
Chlordane	ND	0.5			
Toxaphene	ND	5			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/24/94

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



Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell


Lab No.: 940122-028
 Date Sampled: 01/22/94
 Date Received: 01/22/94
 Date Extracted: 01/24/94
 Date Analyzed: 01/24/94
 Extraction Method: 3510
 Extraction Material: Methylene
 Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Water
 Sample ID: Decon

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	0.05	Aroclor-1016	ND	1
Gamma-BHC (Lindane)	ND	0.05	Aroclor-1221	ND	2
Beta-BHC	ND	0.05	Aroclor-1232	ND	1
Heptachlor	ND	0.05	Aroclor-1242	ND	1
Delta-BHC	ND	0.05	Aroclor-1248	ND	1
Aldrin	ND	0.05	Aroclor-1254	ND	1
Heptachlor Epoxide	ND	0.05	Aroclor-1260	ND	1
Endosulfan I	ND	0.05	Aroclor-1262	ND	1
4,4'-DDE	ND	0.1			
Dieldrin	ND	0.1			
Endrin	ND	0.1			
4,4'-DDD	ND	0.1			
Endosulfan II	ND	0.1			
4,4'-DDT	ND	0.1			
Endrin Aldehyde	ND	0.1			
Endosulfan Sulfate	ND	0.1			
Methoxychlor	ND	0.5			
Chlordane	ND	0.5			
Toxaphene	ND	5			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/24/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell


Lab No.: 940122-028 Dup
 Date Sampled: 01/22/94
 Date Received: 01/22/94
 Date Extracted: 01/24/94
 Date Analyzed: 01/24/94
 Extraction Method: 3510
 Extraction Material: Methylene
 Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Water
 Sample ID: Decon

EPA Method 8080

ANALYTE	Results, ug/kg	DLR, ug/kg	ANALYTE	Results, ug/kg	DLR, ug/kg
Alpha-BHC	ND	0.05	Aroclor-1016	ND	1
Gamma-BHC (Lindane)	ND	0.05	Aroclor-1221	ND	2
Beta-BHC	ND	0.05	Aroclor-1232	ND	1
Heptachlor	ND	0.05	Aroclor-1242	ND	1
Delta-BHC	ND	0.05	Aroclor-1248	ND	1
Aldrin	ND	0.05	Aroclor-1254	ND	1
Heptachlor Epoxide	ND	0.05	Aroclor-1260	ND	1
Endosulfan I	ND	0.05	Aroclor-1262	ND	1
4,4'-DDE	ND	0.1			
Dieldrin	ND	0.1			
Endrin	ND	0.1			
4,4'-DDD	ND	0.1			
Endosulfan II	ND	0.1			
4,4'-DDT	ND	0.1			
Endrin Aldehyde	ND	0.1			
Endosulfan Sulfate	ND	0.1			
Methoxychlor	ND	0.5			
Chlordane	ND	0.5			
Toxaphene	ND	5			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/24/94

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

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940103-001
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Digested: 01/04/94
 Date Analyzed: 01/05/94

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B36C1-0

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results, in mg/kg								
Analyte	EPA Method	TTLG Limit	TTLG Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	1.0
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	28
Lead	6010	1000	FAIL	5	Needs Extr'n	1.00	1.00	4350
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	181

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940103-002
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Digested: 01/04/94
 Date Analyzed: 01/05/94

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B36C1-3

SPL WT	5.0
FINAL VOL	100
Dilution	1


CAC Metals
 Results, in mg/kg

Analyte	EPA Method	TTLc Limit	TTLc Action	STLc Limit	10x STLc Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	2.5
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	ND
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	17
Lead	6010	1000	PASS	5	PASS	1.00	1.00	10
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	12

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By:


 Chris Duncan
 Assistant Laboratory Director

Date:

1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940103-004
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Digested: 01/04/94
 Date Analyzed: 01/05/94

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B33C1-0

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results in mg/kg								
Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	6.5
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	1.4
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	17
Lead	6010	1000	PASS	5	Needs Extr'n	1.00	1.00	347
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	48

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/12/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940103-005
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Digested: 01/04/94
 Date Analyzed: 01/05/94

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B33C1-3

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results, in mg/kg								
Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	2.4
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	ND
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	18
Lead	6010	1000	PASS	5	PASS	1.00	1.00	6.2
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	11

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940103-007
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Digested: 01/04/94
 Date Analyzed: 01/05/94

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B32C1-0

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results in mg/kg								
Analyte	EPA Method	TTLIC Limit	TTLIC Action level	STLC Limit	10x STLC Action level	MDL	DLR	RESULTS
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	3.8
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	1.4
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	30
Lead	6010	1000	PASS	5	PASS	1.00	1.00	32
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	33

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940103-008
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Digested: 01/04/94
 Date Analyzed: 01/05/94

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B32C1-3

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results in mg/kg								
Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	ND
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	17
Lead	6010	1000	PASS	5	PASS	1.00	1.00	7.6
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	12

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940103-012
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Digested: 01/04/94
 Date Analyzed: 01/05/94

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B31C2-0

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals
 Results, in mg/kg

Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	1.3
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	11
Lead	6010	1000	PASS	5	Needs Extr'n	1.00	1.00	168
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	84

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940103-013
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Digested: 01/04/94
 Date Analyzed: 01/05/94

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B31C2-3

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals
 Results in mg/kg

Analyte	EPA Method	TTLc Limit	TTLc Action	STLc Limit	10x STLc Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	ND
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	14
Lead	6010	1000	PASS	5	PASS	1.00	1.00	8.0
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	9.8

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940103-013 Dup
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Digested: 01/04/94
 Date Analyzed: 01/05/94

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B31C2-3

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals
 Results, in mg/kg

Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	3.2
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	ND
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	12
Lead	6010	1000	PASS	5	PASS	1.00	1.00	5.9
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	9.5

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By:


 Chris Duncan

Assistant Laboratory Director

Date:

1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940103-015
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Digested: 01/04/94
 Date Analyzed: 01/05/94

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B31C1-0


SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results, in mg/kg								
Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			level		level			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	3.5
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	1.1
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	6.2
Lead	6010	1000	PASS	5	Needs Extr'n	1.00	1.00	73
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	46

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By:


 Chris Duncan
 Assistant Laboratory Director

Date:

1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940103-016
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Digested: 01/04/94
 Date Analyzed: 01/05/94

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B31C1-3

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results, in mg/kg								
Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	4.1
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	0.59
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	20
Lead	6010	1000	PASS	5	PASS	1.00	1.00	9.8
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	15

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940103-017
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Digested: 01/04/94
 Date Analyzed: 01/05/94

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B30C1-0

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results in mg/kg								
Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	1.0
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	18
Lead	6010	1000	PASS	5	PASS	1.00	1.00	48
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	276

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940103-018
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Digested: 01/04/94
 Date Analyzed: 01/05/94

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B30C1-3

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals
 Results in mg/kg

Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	2.2
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	ND
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	12
Lead	6010	1000	PASS	5	PASS	1.00	1.00	11
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	9.2

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By:


 Chris Duncan
 Assistant Laboratory Director

Date:

1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940103-021
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Digested: 01/04/94
 Date Analyzed: 01/05/94

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B31C1-9


SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results, in mg/kg								
Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	3.2
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	ND
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	20
Lead	6010	1000	PASS	5	PASS	1.00	1.00	9.3
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	11

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940103-022
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Digested: 01/04/94
 Date Analyzed: 01/05/94

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B31C1-15

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results in mg/kg								
Analyte	EPA Method	TTLc Limit	TTLc Action	STLc Limit	10x STLc Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	2.7
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	ND
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	17
Lead	6010	1000	PASS	5	PASS	1.00	1.00	6.7
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	10

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940103-001 Dup
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Digested: 01/04/94
 Date Analyzed: 01/05/94

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B36C1-0

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals
 Results in mg/kg

Analyte	EPA Method	TTLG Limit	TTLG Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	1.0
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	25
Lead	6010	1000	FAIL	5	Needs Extr'n	1.00	1.00	4510
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	191

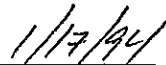
ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____



Spike Recovery and RPD Summary Report

Method: 6010

Analyst: CD/ER

QA File: 4005-2

Data File: 40105-1

Analysis Date: 01/05/94

Digestion Date: 01/04/94

Sample ID: Blank

Matrix: Soil

Dilution Factor: (100/5)

ANALYTE	UNITS	LCS CONC	LCS RESULT	%REC	METH BLANK	SPL CONC*	SPK ADDED*	MS RESULT*	MSD RESULT*	%MS REC	%MSD REC	% REC Limit	RPD	RPD Limit	DLR
Antimony	mg/kg	10	8.5	85	ND	ND	5.0	4.3	4.0	86	80	50-120	7	0-30	2.0
Arsenic	mg/kg	10	11	110	ND	ND	5.0	5.2	5.2	104	104	70-120	0	0-20	0.01
Barium	mg/kg	10	10	100	ND	ND	5.0	4.8	4.9	96	98	60-120	2	0-30	4.0
Beryllium	mg/kg	10	10	100	ND	ND	5.0	4.5	4.6	90	92	60-120	2	0-20	0.1
Cadmium	mg/kg	10	11	110	ND	ND	5.0	4.8	4.8	96	96	55-120	0	0-20	0.1
Chromium, T.	mg/kg	10	11	110	ND	ND	5.0	5.0	5.1	100	102	60-120	2	0-20	0.4
Cobalt	mg/kg	10	11	110	ND	ND	5.0	5.1	5.1	102	102	70-120	0	0-20	0.5
Copper	mg/kg	10	9.8	98	ND	ND	5.0	4.6	4.6	92	92	60-120	0	0-30	0.2
Lead	mg/kg	10	9.6	96	ND	ND	5.0	4.7	4.4	94	88	55-120	7	0-20	0.5
Molybdenum	mg/kg	10	9.5	95	ND	ND	5.0	4.4	4.3	88	86	55-120	2	0-30	0.6
Nickel	mg/kg	10	11	110	ND	ND	5.0	5.0	5.0	100	100	60-120	0	0-30	0.6
Selenium	mg/kg	10	10	100	ND	ND	5.0	4.5	4.5	90	90	55-120	0	0-30	0.01
Silver	mg/kg	10	9.9	99	ND	ND	5.0	4.5	4.5	90	90	60-120	0	0-20	0.2
Thallium	mg/kg	10	9.7	97	ND	ND	5.0	4.5	4.6	90	92	55-120	2	0-20	1.0
Vanadium	mg/kg	10	10	100	ND	ND	5.0	4.8	4.8	96	96	55-120	0	0-20	2.0
Zinc	mg/kg	10	10	100	ND	ND	5.0	4.6	4.7	92	94	55-120	2	0-30	0.3

* Sample and spike concentrations must be multiplied by the dilution factor to obtain final result.

Reviewed/Approved by:

Tim L. Letkuecher

Tim L. Letkuecher

QA Officer

Date:

1/17/94

Spike Recovery and RPD Summary Report

Method: 6010

Analyst: CD/ER

QA File: 4005-3

Data File: 40105-1

Analysis Date: 01/05/94

Digestion Date: 01/04/94

Sample ID: Blank

Matrix: Soil

Dilution Factor: (100/5)

ANALYTE	UNITS	LCS CONC	LCS RESULT	%REC	METH BLANK	SPL CONC*	SPK ADDED*	MS RESULT*	MSD RESULT*	%MS REC	%MSD REC	% REC Limit	RPD	RPD Limit	DLR
Antimony	mg/kg	10	10	100	ND	ND	5.0	4.6	4.4	92	88	50-120	4	0-30	2.0
Arsenic	mg/kg	10	11	110	ND	ND	5.0	5.0	5.0	100	100	70-120	0	0-20	0.01
Barium	mg/kg	10	9.8	98	ND	ND	5.0	5.0	4.9	100	98	60-120	2	0-30	4.0
Beryllium	mg/kg	10	10	100	ND	ND	5.0	4.6	4.5	92	90	60-120	2	0-20	0.1
Cadmium	mg/kg	10	10	100	ND	ND	5.0	4.6	4.6	92	92	55-120	0	0-20	0.1
Chromium, T.	mg/kg	10	10	100	ND	ND	5.0	4.8	4.8	96	96	60-120	0	0-20	0.4
Cobalt	mg/kg	10	10	100	ND	ND	5.0	4.9	4.8	98	96	70-120	2	0-20	0.5
Copper	mg/kg	10	9.9	99	ND	ND	5.0	4.6	4.6	92	92	60-120	0	0-30	0.2
Lead	mg/kg	10	9.7	97	ND	ND	5.0	4.5	4.3	90	86	55-120	5	0-20	0.5
Molybdenum	mg/kg	10	9.8	98	ND	ND	5.0	4.5	4.5	90	90	55-120	0	0-30	0.6
Nickel	mg/kg	10	9.9	99	ND	ND	5.0	4.8	4.7	96	94	60-120	2	0-30	0.6
Selenium	mg/kg	10	9.9	99	ND	ND	5.0	4.6	4.5	92	90	55-120	2	0-30	0.01
Silver	mg/kg	10	10	100	ND	ND	5.0	4.7	4.6	94	92	60-120	2	0-20	0.2
Thallium	mg/kg	10	9.7	97	ND	ND	5.0	4.6	4.5	92	90	55-120	2	0-20	1.0
Vanadium	mg/kg	10	9.7	97	ND	ND	5.0	4.7	4.6	94	92	55-120	2	0-20	2.0
Zinc	mg/kg	10	10	100	ND	ND	5.0	4.6	4.4	92	88	55-120	4	0-30	0.3

* Sample and spike concentrations must be multiplied by the dilution factor to obtain final result.

Reviewed/Approved by: Tim L. Lebkuecher
 Tim L. Lebkuecher
 QA Officer

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940103-019
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Digested: 01/04/94
 Date Analyzed: 01/05/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: 3050 N

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals
 Results, in mg/kg

Analyte	EPA Method	TTLc Limit	TTLc Action	STLc Limit	10x STLc Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Antimony	6010	500	PASS	15	PASS	4.00	4.00	30
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Barium	6010	10000	PASS	100	PASS	0.50	0.50	198
Beryllium	6010	75	PASS	0.75	PASS	0.50	0.50	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	1.4
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	32
Cobalt	6010	8000	PASS	80	PASS	0.50	0.50	4.3
Copper	6010	2500	PASS	25	PASS	0.50	0.50	41
Lead	6010	1000	PASS	5	Needs Extr'n	1.00	1.00	650
Mercury **	7471	20	PASS	0.2	PASS	1.00	0.5	ND
Molybdenum	6010	3500	PASS	350	PASS	1.00	1.00	ND
Nickel	6010	2000	PASS	20	PASS	1.00	1.00	24
Selenium	6010	100	PASS	1	PASS	2.00	2.00	ND
Silver	6010	500	PASS	5	PASS	0.50	0.50	ND
Thallium	6010	700	PASS	7	PASS	1.00	1.00	ND
Vanadium	6010	2400	PASS	24	PASS	0.50	0.50	16
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	160

ND = Not detected. Below indicated limit of detection.
 ** = Digested on 01/07/94, Analyzed on 01/08/94.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940103-020
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Digested: 01/04/94
 Date Analyzed: 01/05/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: 32/3350 N

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals
 Results, in mg/kg

Analyte	EPA Method	TTLc Limit	TTLc Action	STLc Limit	10x STLc Action	MDL	DLR	RESULTS
			level		level			
Antimony	6010	500	PASS	15	PASS	4.00	4.00	38
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Barium	6010	10000	PASS	100	PASS	0.50	0.50	141
Beryllium	6010	75	PASS	0.75	PASS	0.50	0.50	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	3.9
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	3.0
Cobalt	6010	8000	PASS	80	PASS	0.50	0.50	5.7
Copper	6010	2500	PASS	25	PASS	0.50	0.50	87
Lead	6010	1000	FAIL	5	Needs Extri'n	1.00	1.00	1710
Mercury **	7471	20	PASS	0.2	PASS	1.00	0.5	ND
Molybdenum	6010	3500	PASS	350	PASS	1.00	1.00	2.6
Nickel	6010	2000	PASS	20	PASS	1.00	1.00	32
Selenium	6010	100	PASS	1	PASS	2.00	2.00	ND
Silver	6010	500	PASS	5	PASS	0.50	0.50	ND
Thallium	6010	700	PASS	7	PASS	1.00	1.00	ND
Vanadium	6010	2400	PASS	24	PASS	0.50	0.50	18
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	468

ND = Not detected. Below indicated limit of detection.

** = Digested on 01/07/94, Analyzed on 01/08/94.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Spike Recovery and RPD Summary Report

Method: 6010

Analyst: CD/ER

QA File: 4005-1

Data File: 40105-1

Analysis Date: 01/05/94

Digestion Date: 01/04/94

Sample ID: Blank

Matrix: Soil

Dilution Factor: (100/5)

ANALYTE	UNITS	LCS CONC	LCS RESULT	%REC	METH BLANK	SPL CONC*	SPK ADDED*	MS RESULT*	MSD RESULT*	%MS REC	%MSD REC	% REC Limit	RPD	RPD Limit	DLR
Antimony	mg/kg	10	9.9	99	ND	ND	5.0	4.1	4.6	82	92	50-120	11	0-30	2.0
Arsenic	mg/kg	10	10	100	ND	ND	5.0	4.9	5.0	98	100	70-120	2	0-20	0.01
Barium	mg/kg	10	10	100	ND	ND	5.0	5.0	5.0	100	100	60-120	0	0-30	4.0
Beryllium	mg/kg	10	10	100	ND	ND	5.0	4.7	4.6	94	92	60-120	2	0-20	0.1
Cadmium	mg/kg	10	10	100	ND	ND	5.0	4.8	4.7	96	94	55-120	2	0-20	0.1
Chromium, T.	mg/kg	10	10	100	ND	ND	5.0	5.0	5.0	100	100	60-120	0	0-20	0.4
Cobalt	mg/kg	10	10	100	ND	ND	5.0	5.0	4.9	100	98	70-120	2	0-20	0.5
Copper	mg/kg	10	10	100	ND	ND	5.0	4.8	4.7	96	94	60-120	2	0-30	0.2
Lead	mg/kg	10	9.9	99	ND	ND	5.0	4.4	4.4	88	88	55-120	0	0-20	0.5
Molybdenum	mg/kg	10	9.8	98	ND	ND	5.0	4.7	4.6	94	92	55-120	2	0-30	0.6
Nickel	mg/kg	10	10	100	ND	ND	5.0	4.9	4.8	98	96	60-120	2	0-30	0.6
Selenium	mg/kg	10	10	100	ND	ND	5.0	4.6	4.6	92	92	55-120	0	0-30	0.01
Silver	mg/kg	10	10	100	ND	ND	5.0	4.7	4.6	94	92	60-120	2	0-20	0.2
Thallium	mg/kg	10	9.9	99	ND	ND	5.0	4.7	4.6	94	92	55-120	2	0-20	1.0
Vanadium	mg/kg	10	10	100	ND	ND	5.0	4.9	4.9	98	98	55-120	0	0-20	2.0
Zinc	mg/kg	10	10	100	ND	ND	5.0	4.5	4.5	90	90	55-120	0	0-30	0.3

* Sample and spike concentrations must be multiplied by the dilution factor to obtain final result.

Reviewed/Approved by:

Tim L. Lebkuecher

Tim L. Lebkuecher
QA Officer

Date:

1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-008
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

SPL WT	5.0
FINAL VOL	100
Dilution	1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample I.D.: B24C1-0

CAC Metals
 Results in mg/kg

Analyte	EPA Method	TTLCLimit	TTLCLAction	STLCLimit	10x STLCLAction	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Antimony	6010	500	PASS	15	PASS	4.00	4.00	7.3
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Barium	6010	10000	PASS	100	PASS	0.50	0.50	11
Beryllium	6010	75	PASS	0.75	PASS	0.50	0.50	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	ND
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	13
Cobalt	6010	8000	PASS	80	PASS	0.50	0.50	2.5
Copper	6010	2500	PASS	25	PASS	0.50	0.50	7.5
Lead	6010	1000	FAIL	5	Needs Extr'n	1.00	1.00	11500
Mercury **	7471	20	PASS	0.2	PASS	1.00	0.50	ND
Molybdenum	6010	3500	PASS	350	PASS	1.00	1.00	ND
Nickel	6010	2000	PASS	20	PASS	1.00	1.00	5.4
Selenium	6010	100	PASS	1	PASS	2.00	2.00	ND
Silver	6010	500	PASS	5	PASS	0.50	0.50	ND
Thallium	6010	700	PASS	7	PASS	1.00	1.00	ND
Vanadium	6010	2400	PASS	24	PASS	0.50	0.50	3.6
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	45

ND = Not detected. Below indicated limit of detection.

** = Digested on 01/07/94 Analyzed on 01/08/94

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-009
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

SPL WT	5.0
FINAL VOL	100
Dilution	1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample I.D.: B24C1-0

CAC Metals
 Results, in mg/kg

Analyte	EPA Method	TTLG Limit	TTLG Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Antimony	6010	500	PASS	15	PASS	4.00	4.00	55
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Barium	6010	10000	PASS	100	PASS	0.50	0.50	163
Beryllium	6010	75	PASS	0.75	PASS	0.50	0.50	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	1.3
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	12
Cobalt	6010	8000	PASS	80	PASS	0.50	0.50	13
Copper	6010	2500	PASS	25	PASS	0.50	0.50	23
Lead	6010	1000	PASS	5	Needs Extri'n	1.00	1.00	139
Mercury **	7471	20	PASS	0.2	PASS	1.00	0.50	ND
Molybdenum	6010	3500	PASS	350	PASS	1.00	1.00	1.2
Nickel	6010	2000	PASS	20	PASS	1.00	1.00	19
Selenium	6010	100	PASS	1	PASS	2.00	2.00	ND
Silver	6010	500	PASS	5	PASS	0.50	0.50	ND
Thallium	6010	700	PASS	7	PASS	1.00	1.00	ND
Vanadium	6010	2400	PASS	24	PASS	0.50	0.50	40
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	36

ND = Not detected. Below indicated limit of detection.

** = Digested on 01/07/94 Analyzed on 01/08/94
 * = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-010
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample I.D.: B24C1-3


SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results, in mg/kg								
Analyte	EPA Method	TTLc Limit	TTLc Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			level		level			
Antimony	6010	500	PASS	15	PASS	4.00	4.00	42
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	4.1
Barium	6010	10000	PASS	100	PASS	0.50	0.50	122
Beryllium	6010	75	PASS	0.75	PASS	0.50	0.50	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	0.92
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	15
Cobalt	6010	8000	PASS	80	PASS	0.50	0.50	8.4
Copper	6010	2500	PASS	25	PASS	0.50	0.50	26
Lead	6010	1000	PASS	5	Needs Extr'n	1.00	1.00	136
Mercury **	7471	20	PASS	0.2	PASS	1.00	0.50	ND
Molybdenum	6010	3500	PASS	350	PASS	1.00	1.00	1.2
Nickel	6010	2000	PASS	20	PASS	1.00	1.00	18
Selenium	6010	100	PASS	1	PASS	2.00	2.00	ND
Silver	6010	500	PASS	5	PASS	0.50	0.50	ND
Thallium	6010	700	PASS	7	PASS	1.00	1.00	ND
Vanadium	6010	2400	PASS	24	PASS	0.50	0.50	24
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	34

ND = Not detected. Below indicated limit of detection.

** = Digested on 01/07/94 Analyzed on 01/08/94

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-011
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

SPL WT	5.0
FINAL VOL	100
Dilution	1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample I.D.: B25C1-0

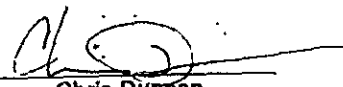
CAO Metals
 Results, in mg/kg

Analyte	EPA Method	TTLCLimit	TTLCLAction	STLCLimit	10x STLCLAction	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Antimony	6010	500	PASS	15	PASS	4.00	4.00	34
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	2.4
Barium	6010	10000	PASS	100	PASS	0.50	0.50	182
Beryllium	6010	75	PASS	0.75	PASS	0.50	0.50	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	0.84
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	12
Cobalt	6010	8000	PASS	80	PASS	0.50	0.50	11
Copper	6010	2500	PASS	25	PASS	0.50	0.50	33
Lead	6010	1000	PASS	5	Needs Extr'n	1.00	1.00	82
Mercury **	7471	20	PASS	0.2	PASS	1.00	0.50	ND
Molybdenum	6010	3500	PASS	350	PASS	1.00	1.00	ND
Nickel	6010	2000	PASS	20	PASS	1.00	1.00	18
Selenium	6010	100	PASS	1	PASS	2.00	2.00	ND
Silver	6010	500	PASS	5	PASS	0.50	0.50	ND
Thallium	6010	700	PASS	7	PASS	1.00	1.00	ND
Vanadium	6010	2400	PASS	24	PASS	0.50	0.50	24
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	33

ND = Not detected. Below indicated limit of detection.

** = Digested on 01/07/94 Analyzed on 01/08/94

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-012
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample I.D.: B25C1-0

SPL WT	5.0
FINAL VOL	100
Dilution	1


CAC Metals
 Results in mg/kg

Analyte	EPA Method	TTLc Limit	TTLc Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			level		level			
Antimony	6010	500	PASS	15	PASS	4.00	4.00	42
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Barium	6010	10000	PASS	100	PASS	0.50	0.50	226
Beryllium	6010	75	PASS	0.75	PASS	0.50	0.50	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	1.1
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	9.1
Cobalt	6010	8000	PASS	80	PASS	0.50	0.50	9.1
Copper	6010	2500	PASS	25	PASS	0.50	0.50	40
Lead	6010	1000	PASS	5	Needs Extr'n	1.00	1.00	55
Mercury **	7471	20	PASS	0.2	PASS	1.00	0.50	ND
Molybdenum	6010	3500	PASS	350	PASS	1.00	1.00	ND
Nickel	6010	2000	PASS	20	PASS	1.00	1.00	16
Selenium	6010	100	PASS	1	PASS	2.00	2.00	ND
Silver	6010	500	PASS	5	PASS	0.50	0.50	ND
Thallium	6010	700	PASS	7	PASS	1.00	1.00	ND
Vanadium	6010	2400	PASS	24	PASS	0.50	0.50	29
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	39

ND = Not detected. Below indicated limit of detection.

** = Digested on 01/07/94 Analyzed on 01/08/94

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Reviewed and Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-013
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample I.D.: B25C1-7


SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results, in mg/kg								
Analyte	EPA Method	TTLc Limit	TTLc Action	STLc Limit	10x STLc Action	MDL	DLR	RESULTS
			level		level			
Antimony	6010	500	PASS	15	PASS	4.00	4.00	17
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Barium	6010	10000	PASS	100	PASS	0.50	0.50	48
Beryllium	6010	75	PASS	0.75	PASS	0.50	0.50	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	ND
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	3.9
Cobalt	6010	8000	PASS	80	PASS	0.50	0.50	3.8
Copper	6010	2500	PASS	25	PASS	0.50	0.50	9.8
Lead	6010	1000	PASS	5	PASS	1.00	1.00	11
Mercury **	7471	20	PASS	0.2	PASS	1.00	0.50	ND
Molybdenum	6010	3500	PASS	350	PASS	1.00	1.00	ND
Nickel	6010	2000	PASS	20	PASS	1.00	1.00	7.1
Selenium	6010	100	PASS	1	PASS	2.00	2.00	ND
Silver	6010	500	PASS	5	PASS	0.50	0.50	ND
Thallium	6010	700	PASS	7	PASS	1.00	1.00	ND
Vanadium	6010	2400	PASS	24	PASS	0.50	0.50	11
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	11

ND = Not detected. Below indicated limit of detection.

** = Digested on 01/07/94 Analyzed on 01/08/94

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Janè Campbell

Lab ID No.: 940104-014
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample I.D.: B26C1-0


SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results, in mg/kg								
Analyte	EPA Method	TTLT Limit	TTLT Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Antimony	6010	500	PASS	15	PASS	4.00	4.00	24
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Barium	6010	10000	PASS	100	PASS	0.50	0.50	80
Beryllium	6010	75	PASS	0.75	PASS	0.50	0.50	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	1.2
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	18
Cobalt	6010	8000	PASS	80	PASS	0.50	0.50	5.6
Copper	6010	2500	PASS	25	PASS	0.50	0.50	37
Lead	6010	1000	PASS	5	Needs Extr'n	1.00	1.00	930
Mercury **	7471	20	PASS	0.2	PASS	1.00	0.50	ND
Molybdenum	6010	3500	PASS	350	PASS	1.00	1.00	ND
Nickel	6010	2000	PASS	20	PASS	1.00	1.00	21
Selenium	6010	100	PASS	1	PASS	2.00	2.00	ND
Silver	6010	500	PASS	5	PASS	0.50	0.50	ND
Thallium	6010	700	PASS	7	PASS	1.00	1.00	ND
Vanadium	6010	2400	PASS	24	PASS	0.50	0.50	15
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	92

ND = Not detected. Below indicated limit of detection.

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Reviewed and Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-015
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample I.D.: B26C1-3

SPL WT	5.0
FINAL VOL	100
Dilution	1


CAC Metals
 Results in mg/kg

Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Antimony	6010	500	PASS	15	PASS	4.00	4.00	47
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	3.3
Barium	6010	10000	PASS	100	PASS	0.50	0.50	138
Beryllium	6010	75	PASS	0.75	PASS	0.50	0.50	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	1.2
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	28
Cobalt	6010	8000	PASS	80	PASS	0.50	0.50	11
Copper	6010	2500	PASS	25	PASS	0.50	0.50	30
Lead	6010	1000	PASS	5	Needs Extr'n	1.00	1.00	124
Mercury **	7471	20	PASS	0.2	PASS	1.00	0.50	ND
Molybdenum	6010	3500	PASS	350	PASS	1.00	1.00	ND
Nickel	6010	2000	PASS	20	PASS	1.00	1.00	25
Selenium	6010	100	PASS	1	PASS	2.00	2.00	ND
Silver	6010	500	PASS	5	PASS	0.50	0.50	ND
Thallium	6010	700	PASS	7	PASS	1.00	1.00	ND
Vanadium	6010	2400	PASS	24	PASS	0.50	0.50	33
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	66

ND = Not detected. Below indicated limit of detection.

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* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-022
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample I.D.: B24C2-0

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAO Metals
 Results, in mg/kg

Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Antimony	6010	500	PASS	15	PASS	4.00	4.00	34
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	3.8
Barium	6010	10000	PASS	100	PASS	0.50	0.50	78
Beryllium	6010	75	PASS	0.75	PASS	0.50	0.50	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	0.87
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	19
Cobalt	6010	8000	PASS	80	PASS	0.50	0.50	4.6
Copper	6010	2500	PASS	25	PASS	0.50	0.50	35
Lead	6010	1000	PASS	5	Needs Extr'n	1.00	1.00	410
Mercury **	7471	20	PASS	0.2	PASS	1.00	0.50	ND
Molybdenum	6010	3500	PASS	350	PASS	1.00	1.00	ND
Nickel	6010	2000	PASS	20	PASS	1.00	1.00	15
Selenium	6010	100	PASS	1	PASS	2.00	2.00	ND
Silver	6010	500	PASS	5	PASS	0.50	0.50	ND
Thallium	6010	700	PASS	7	PASS	1.00	1.00	ND
Vanadium	6010	2400	PASS	24	PASS	0.50	0.50	15
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	120

ND = Not detected. Below indicated limit of detection.

** = Digested on 01/07/94 Analyzed on 01/08/94

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-025
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample I.D.: B25C2-3


SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results in mg/kg								
Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Antimony	6010	500	PASS	15	PASS	4.00	4.00	33
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Barium	6010	10000	PASS	100	PASS	0.50	0.50	178
Beryllium	6010	75	PASS	0.75	PASS	0.50	0.50	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	1.1
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	14
Cobalt	6010	8000	PASS	80	PASS	0.50	0.50	10
Copper	6010	2500	PASS	25	PASS	0.50	0.50	27
Lead	6010	1000	PASS	5	PASS	1.00	1.00	31
Mercury **	7471	20	PASS	0.2	PASS	1.00	0.50	ND
Molybdenum	6010	3500	PASS	350	PASS	1.00	1.00	ND
Nickel	6010	2000	PASS	20	PASS	1.00	1.00	18
Selenium	6010	100	PASS	1	PASS	2.00	2.00	ND
Silver	6010	500	PASS	5	PASS	0.50	0.50	ND
Thallium	6010	700	PASS	7	PASS	1.00	1.00	ND
Vanadium	6010	2400	PASS	24	PASS	0.50	0.50	25
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	28

ND = Not detected. Below indicated limit of detection.

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* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-026
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Soil
 Sample I.D.: B26C2-0

SPL WT	5.0
FINAL VOL	100
Dilution	1


CAC Metals
 Results, in mg/kg

Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Antimony	6010	500	PASS	15	PASS	4.00	4.00	47
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	2.9
Barium	6010	10000	PASS	100	PASS	0.50	0.50	124
Beryllium	6010	75	PASS	0.75	PASS	0.50	0.50	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	1.4
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	18
Cobalt	6010	8000	PASS	80	PASS	0.50	0.50	11
Copper	6010	2500	PASS	25	PASS	0.50	0.50	38
Lead	6010	1000	PASS	5	Needs Extr'n	1.00	1.00	89
Mercury **	7471	20	PASS	0.2	PASS	1.00	0.50	ND
Molybdenum	6010	3500	PASS	350	PASS	1.00	1.00	ND
Nickel	6010	2000	PASS	20	PASS	1.00	1.00	19
Selenium	6010	100	PASS	1	PASS	2.00	2.00	ND
Silver	6010	500	PASS	5	PASS	0.50	0.50	ND
Thallium	6010	700	PASS	7	PASS	1.00	1.00	ND
Vanadium	6010	2400	PASS	24	PASS	0.50	0.50	28
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	32

ND = Not detected. Below indicated limit of detection.

** = Digested on 01/07/94 Analyzed on 01/08/94

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-016
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B27C1-0

SPL WT	5.0
FINAL VOL	100
Dilution	1

GAC Metals
 Results in mg/kg

Analyte	EPA Method	TTLIC Limit	TTLIC Action level	STLCLimit	10x STLCLimit Action level	MDL	DLR	RESULTS
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	2.2
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	2.6
Chromium, T *	6010	2500	PASS	5/560	Needs Extr'n	0.50	0.50	49
Lead	6010	1000	PASS	5	Needs Extr'n	1.00	1.00	299
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	339

ND = Not detected. Below indicated limit of detection.

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Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-017
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B27C1-5

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results, in mg/kg								
Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	4.3
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	0.52
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	9.9
Lead	6010	1000	PASS	5	PASS	1.00	1.00	17
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	16

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-016 Dup
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B27C1-0

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results in mg/kg								
Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	2.6
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	29
Lead	6010	1000	PASS	5	Needs Extr'n	1.00	1.00	151
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	265

ND = Not detected. Below indicated limit of detection.

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Reviewed and Approved By: Chris Duncan Date: 1/17/94
 Chris Duncan
 Assistant Laboratory Director

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-019
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B29C1-0

SPL WT	5.0
FINAL VOL	100
Dilution	1


CAC Metals
 Results, in mg/kg

Analyte	EPA Method	TTLC Limit	TTLC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	4.4
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	1.9
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	19
Lead	6010	1000	PASS	5	PASS	1.00	1.00	26
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	85

ND = Not detected. Below indicated limit of detection.

* = From Title 22 -- If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By:


 Chris Duncan
 Assistant Laboratory Director

Date:

1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-020
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B29C1-3


SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results, in mg/kg								
Analyte	EPA Method	TTLC Limit	TTLC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	ND
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	15
Lead	6010	1000	PASS	5	PASS	1.00	1.00	6.8
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	10

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By:


 Chris Duncan
 Assistant Laboratory Director

Date:

1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-021
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

SPL WT	5.0
FINAL VOL	100
Dilution	1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B29C1-16

CAC Metals Results in mg/kg								
Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	ND
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	8.0
Lead	6010	1000	PASS	5	PASS	1.00	1.00	18
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	6.0

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By:


 Chris Duncan
 Assistant Laboratory Director

Date:

1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-027
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B27C2-3

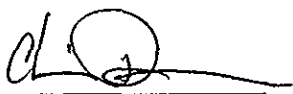
SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results, in mg/kg								
Analyte	EPA Method	TTLC Limit	TTLC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	2.3
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	1.2
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	4.2
Lead	6010	1000	PASS	5	Needs Extr'n	1.00	1.00	372
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	91

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By:


 Chris Duncan
 Assistant Laboratory Director

Date:

1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-030
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B29C2-0

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results, in mg/kg								
Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	2.6
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	1.3
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	19
Lead	6010	1000	PASS	5	PASS	1.00	1.00	22
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	36

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/95

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-031
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B29C2-3


SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results in mg/kg								
Analyte	EPA Method	TTLIC Limit	TTLIC Action level	STLIC Limit	10x STLIC Action level	MDL	DLR	RESULTS
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	ND
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	12
Lead	6010	1000	PASS	5	PASS	1.00	1.00	6.9
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	8.8

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By:


 Chris Duncan
 Assistant Laboratory Director

Date:

1/17/98

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-033
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B30C2-0


SPL WT	5.0
FINAL VOL	100
Dilution	1

GAC Metals Results, in mg/kg								
Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	3.1
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	2.1
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	18
Lead	6010	1000	FAIL	5	Needs Extr'n	1.00	1.00	2640
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	230

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By:


 Chris Duncan
 Assistant Laboratory Director

Date:

1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-030 Dup
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B29C2-0

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals
 Results, in mg/kg

Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLIC Limit	10x STLIC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	2.6
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	1.6
Chromium, T.*	6010	2500	PASS	5/560	PASS	0.50	0.50	23
Lead	6010	1000	PASS	5	PASS	1.00	1.00	25
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	43

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-034
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B30C2-3

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results in mg/kg								
Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	ND
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	12
Lead	6010	1000	PASS	5	PASS	1.00	1.00	8.1
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	8.6

ND = Not detected. Below indicated limit of detection.

* = From Title 22 -- If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-036
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: 24/25 50N

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals
 Results in mg/kg

Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	5.1
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	1.9
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	34
Lead	6010	1000	PASS	5	Needs Extr'n	1.00	1.00	142
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	131

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-037
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: 26/27 50N

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results in mg/kg								
Analyte	EPA Method	TTLC Limit	TTLC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	6.2
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	2.1
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	22
Lead	6010	1000	PASS	5	Needs Extr'n	1.00	1.00	353
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	232

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: Chris Duncan Date: 1/17/94
 Chris Duncan
 Assistant Laboratory Director

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-038
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: 24/25 50S

SPL WT	5.0
FINAL VOL	100
Dilution	1

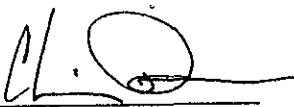
CAC Metals
 Results in mg/kg

Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	3.6
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	1.7
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	18
Lead	6010	1000	FAIL	5	Needs Extr'n	1.00	1.00	1790
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	222

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By:


 Chris Duncan
 Assistant Laboratory Director

Date:

1/12/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-033 Dup
 Date Sampled: 12/30/94
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B30C2-0

SPL WT	5.0
FINAL VOL	100
Dilution	1

GAC Metals Results, in mg/kg								
Analyte	EPA Method	TTLC Limit	TTLC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	3.3
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	26
Lead	6010	1000	FAIL	5	Needs Extr'n	1.00	1.00	4520
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	290

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Spike Recovery and RPD Summary Report

Method: 6010
 Analyst: ECP/KS
 QA File: 4012-2
 Data File: 0112-1

Analysis Date: 01/12/94
 Digestion Date: 01/06/94
 Sample ID: Blank
 Matrix: Soil
 Dilution Factor: (100/5)

ANALYTE	UNITS	LCS CONC	LCS RESULT	%REC	METH BLANK	SPL CONC*	SPK ADDED*	MS RESULT*	MSD RESULT*	%MS REC	%MSD REC	% REC Limit	RPD	RPD Limit	DLR
Antimony	mg/kg	5.0	5.0	100	ND	ND	5.0	4.2	5.2	84	104	50-120	21	0-30	2.0
Arsenic	mg/kg	5.0	5.7	114	ND	ND	5.0	4.9	4.8	98	96	70-120	2	0-20	0.01
Barium	mg/kg	5.0	5.1	102	ND	ND	5.0	5.0	5.0	100	100	60-120	0	0-30	4.0
Beryllium	mg/kg	5.0	5.2	104	ND	ND	5.0	4.7	4.8	94	96	60-120	2	0-20	0.1
Cadmium	mg/kg	5.0	5.5	110	ND	ND	5.0	4.9	4.8	98	96	55-120	2	0-20	0.1
Chromium, T.	mg/kg	5.0	5.4	108	ND	ND	5.0	5.0	5.0	100	100	60-120	0	0-20	0.4
Cobalt	mg/kg	5.0	5.5	110	ND	ND	5.0	4.9	4.9	98	98	70-120	0	0-20	0.5
Copper	mg/kg	5.0	5.1	102	ND	ND	5.0	4.7	4.6	94	92	60-120	2	0-30	0.2
Lead	mg/kg	5.0	5.1	102	ND	ND	5.0	4.4	4.4	88	88	55-120	0	0-20	0.5
Molybdenum	mg/kg	5.0	4.8	96	ND	ND	5.0	4.5	4.4	90	88	55-120	2	0-30	0.6
Nickel	mg/kg	5.0	5.4	108	ND	ND	5.0	4.9	4.8	98	96	60-120	2	0-30	0.6
Selenium	mg/kg	5.0	5.3	106	ND	ND	5.0	4.5	4.5	90	90	55-120	0	0-30	0.01
Silver**	mg/kg	5.0	4.9	98	ND	ND	5.0	5.0	5.0	100	100	60-120	0	0-20	0.2
Thallium	mg/kg	5.0	5.0	100	ND	ND	5.0	4.4	4.4	88	88	55-120	0	0-20	1.0
Vanadium	mg/kg	5.0	5.1	102	ND	ND	5.0	4.8	4.7	96	94	55-120	2	0-20	2.0
Zinc	mg/kg	5.0	5.3	106	ND	ND	5.0	4.6	4.6	92	92	55-120	0	0-30	0.3

* Sample and spike concentrations must be multiplied by the dilution factor to obtain final result.

** Analysis done by AAS.

Reviewed/Approved by: Tim L. Lebkuecher
 Tim L. Lebkuecher
 QA Officer

Date: 1/17/94

Spike Recovery and RPD Summary Report

Method: 200.7***
 Analyst: CDRKS
 QA File: 4015-1
 Data File: 4015

Analysis Date: 01/14-15/94
 Digestion Date: 01/06/94
 Sample ID: Blank
 Matrix: Water
 Dilution Factor: (50/100)

ANALYTE	UNITS	LCS CONC	LCS RESULT	%REC	METH BLANK	SPL CONC*	SPK ADDED*	MS RESULT*	MSD RESULT*	%MS REC	%MSD REC	% REC Limit	RPD	RPD Limit	DLR
Antimony	mg/L	5.0	5.3	106	ND	ND	10	11	11	110	110	80-120	0	20	0.23
Arsenic	mg/L	0.010	0.010	97	ND	ND	0.010	0.010	0.010	100	100	80-120	0	20	0.001
Barium**	mg/L	20	20	100	ND	ND	10	3.0	2.9	30	29	80-120	3	20	0.40
Beryllium	mg/L	0.10	0.11	110	ND	ND	10	12	12	120	120	80-120	0	20	0.02
Cadmium	mg/L	1.0	1.0	100	ND	ND	10	10	10	100	100	80-120	0	20	0.04
Chromium, T.	mg/L	1.0	1.0	100	ND	ND	10	10	11	100	110	80-120	10	20	0.10
Cobalt	mg/L	5.0	4.4	88	ND	ND	10	9.4	9.3	94	93	80-120	1	20	0.06
Copper	mg/L	5.0	5.9	118	ND	ND	10	10	9.7	101	97	80-120	4	20	0.03
Lead	mg/L	5.0	5.0	100	ND	ND	10	11	10	110	100	80-120	10	20	0.06
Molybdenum	mg/L	10	11	110	ND	ND	10	11	11	110	110	80-120	0	20	0.16
Nickel	mg/L	5.0	5.1	102	ND	ND	10	10	10	100	100	80-120	0	20	0.08
Selenium	mg/L	0.0075	0.0083	111	ND	ND	0.0150	0.0131	0.0135	87	90	80-120	3	20	0.001
Silver	mg/L	1.0	1.2	120	ND	ND	10	11	11	110	110	80-120	0	20	0.04
Thallium	mg/L	10	9.8	98	ND	ND	10	9.8	9.9	98	99	80-120	1	20	0.24
Vanadium	mg/L	10	8.7	87	ND	ND	10	9.7	9.7	97	97	80-120	0	20	0.50
Zinc	mg/L	5.0	4.1	82	ND	ND	10	11	11	110	110	80-120	0	20	0.06

* Sample and spike concentrations must be multiplied by the dilution factor to obtain final result.

** Low spike recoveries due to matrix interferences.

*** Analysis done by AAS.

Reviewed/Approved by:

Tim L. Lebkuecher

Tim L. Lebkuecher
 QA Officer

Date:

1/17/94

Spike Recovery and RPD Summary Report

Method: 6010

Analyst: CD/ER

QA File: 4005--1

Data File: 40105-1

Analysis Date: 01/05/94

Digestion Date: 01/04/94

Sample ID: Blank

Matrix: Soil

Dilution Factor: (100/5)

ANALYTE	UNITS	LCS CONC	LCS RESULT	%REC	METH BLANK	SPL CONC*	SPK ADDED*	MS RESULT*	MSD RESULT*	%MS REC	%MSD REC	% REC Limit	RPD	RPD Limit	DLR
Antimony	mg/kg	10	9.9	99	ND	ND	5.0	4.1	4.6	82	92	50-120	11	0-30	2.0
Arsenic	mg/kg	10	10	100	ND	ND	5.0	4.9	5.0	98	100	70-120	2	0-20	0.01
Barium	mg/kg	10	10	100	ND	ND	5.0	5.0	5.0	100	100	60-120	0	0-30	4.0
Beryllium	mg/kg	10	10	100	ND	ND	5.0	4.7	4.6	94	92	60-120	2	0-20	0.1
Cadmium	mg/kg	10	10	100	ND	ND	5.0	4.8	4.7	96	94	55-120	2	0-20	0.1
Chromium, T.	mg/kg	10	10	100	ND	ND	5.0	5.0	5.0	100	100	60-120	0	0-20	0.4
Cobalt	mg/kg	10	10	100	ND	ND	5.0	5.0	4.9	100	98	70-120	2	0-20	0.5
Copper	mg/kg	10	10	100	ND	ND	5.0	4.8	4.7	96	94	60-120	2	0-30	0.2
Lead	mg/kg	10	9.9	99	ND	ND	5.0	4.4	4.4	88	88	55-120	0	0-20	0.5
Molybdenum	mg/kg	10	9.8	98	ND	ND	5.0	4.7	4.6	94	92	55-120	2	0-30	0.6
Nickel	mg/kg	10	10	100	ND	ND	5.0	4.9	4.8	98	96	60-120	2	0-30	0.6
Selenium	mg/kg	10	10	100	ND	ND	5.0	4.6	4.6	92	92	55-120	0	0-30	0.01
Silver	mg/kg	10	10	100	ND	ND	5.0	4.7	4.6	94	92	60-120	2	0-20	0.2
Thallium	mg/kg	10	9.9	99	ND	ND	5.0	4.7	4.6	94	92	55-120	2	0-20	1.0
Vanadium	mg/kg	10	10	100	ND	ND	5.0	4.9	4.9	98	98	55-120	0	0-20	2.0
Zinc	mg/kg	10	10	100	ND	ND	5.0	4.5	4.5	90	90	55-120	0	0-30	0.3

* Sample and spike concentrations must be multiplied by the dilution factor to obtain final result.

Reviewed/Approved by:

Tim L. Lebkuecher

Tim L. Lebkuecher
QA Officer

Date:

1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-042
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B28C2-0

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals
 Results in mg/kg

Analyte	EPA Method	TTLG Limit	TTLG Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	0.55
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	6.5
Lead	6010	1000	PASS	5	Needs Extr'n	1.00	1.00	923
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	48

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: Chris Duncan Date: 1/17/94
 Chris Duncan
 Assistant Laboratory Director

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-043
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94


Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B28C2-2

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results in mg/kg								
Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	0.65
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	11
Lead	6010	1000	PASS	5	Needs Extr'n	1.00	1.00	882
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	39

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-044
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B32C2-0

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results in mg/kg								
Analyte	EPA Method	TTLG Limit	TTLG Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	2.9
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	0.56
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	15
Lead	6010	1000	PASS	5	PASS	1.00	1.00	11
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	11

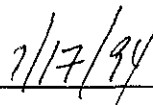
ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____



Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-045
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94


Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B32C2-3

SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results, in mg/kg								
Analyte	EPA Method	TTLG Limit	TTLG Action level	STLC Limit	10x STLC Action level	MDL	DLR	RESULTS
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	0.52
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	12
Lead	6010	1000	PASS	5	PASS	1.00	1.00	11
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	8.1

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-047
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B33C2-0


SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results, in mg/kg								
Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	2.5
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	1.1
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	11
Lead	6010	1000	PASS	5	Needs Extr'n	1.00	1.00	249
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	114

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By:


 Chris Duncan
 Assistant Laboratory Director

Date:

1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-048
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B33C2-3


SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results in mg/kg								
Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	ND
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	15
Lead	6010	1000	PASS	5	Needs Extr'n	1.00	1.00	85
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	12

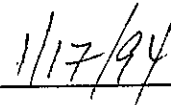
ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By:


 Chris Duncan
 Assistant Laboratory Director

Date:



Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-050
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B36C2-0

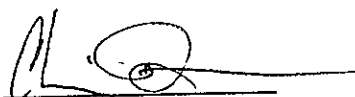
SPL WT	5.0
FINAL VOL	100
Dilution	1

CAC Metals Results in mg/kg								
Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLCLimit	10x STLCLimit	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	2.3
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	ND
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	15
Lead	6010	1000	PASS	5	PASS	1.00	1.00	5.1
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	11

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By:


 Chris Duncan
 Assistant Laboratory Director

Date:

1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-051
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B36C2-3

SPL WT	5.0
FINAL VOL	100
Dilution	1


CAC Metals
 Results in mg/kg

Analyte	EPA Method	TTLG Limit	TTLG Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	ND
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	16
Lead	6010	1000	PASS	5	PASS	1.00	1.00	5.9
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	11

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

Client: Apex Environmental Recovery, Inc.
Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
Attn: Ms. Jane Campbell
Project: Bay Bridge 153 DT Oakland, CA
Matrix: Water
Sample I.D.: De Con 1

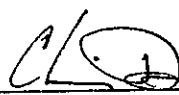
Lab ID No.: 940104-053
Date Sampled: 12/31/94
Date Received: 01/04/94
Date Digested: 01/06/94
Date Analyzed: 01/06/94

SPL VOL	100.0
FINAL VOL	50
Dilution	1

CAC Metals
Results, in mg/l

Analyte	EPA Method	MDL	DLR	RESULTS
Arsenic	200.7	0.30	0.01	ND
Cadmium	200.7	0.10	0.04	ND
Chromium, T	200.7	0.10	0.10	0.12
Lead	200.7	0.30	0.06	ND
Zinc	200.7	0.10	0.06	0.28

ND = Not detected. Below indicated limit of detection.
 Analysis of metals were done by AAS.

Reviewed and Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex, Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: 940104-051 Dup
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/12/94

Project: Bay Bridge 153DT Oakland, CA
 Caltrans T.O.# 04-04343K-01
 Matrix: Soil
 Sample I.D.: B36C2-3

SPL WT	5.0
FINAL VOL	100
Dilution	1


CAC Metals
 Results in mg/kg

Analyte	EPA Method	TTLIC Limit	TTLIC Action	STLC Limit	10x STLC Action	MDL	DLR	RESULTS
			<u>level</u>		<u>level</u>			
Arsenic	6010	500	PASS	5	PASS	2.00	2.00	ND
Cadmium	6010	100	PASS	1	PASS	0.50	0.50	ND
Chromium, T *	6010	2500	PASS	5/560	PASS	0.50	0.50	8.4
Lead	6010	1000	PASS	5	PASS	1.00	1.00	2.5
Zinc	6010	5000	PASS	250	PASS	0.50	0.50	8.6

ND = Not detected. Below indicated limit of detection.

* = From Title 22 - If the soluble chromium, as determined by the TCLP set forth in Appendix 1 of chapter 18 of this division (4), is less than 5 mg/l, and the soluble chromium, as determined by the procedures set forth in Appendix 11 of chapter 11, equals or exceeds 560 mg/l and the waste is not otherwise identified as a RCRA hazardous waste pursuant to section 66261.100, then the waste is a non-RCRA hazardous waste.

Reviewed and Approved By:


 Chris Duncan
 Assistant Laboratory Director

Date:

1/17/94

Spike Recovery and RPD Summary Report

Method: 6010
 Analyst: ECP/KS
 QA File: 4012-2
 Data File: 0112-1

Analysis Date: 01/12/94
 Digestion Date: 01/06/94
 Sample ID: Blank
 Matrix: Soil
 Dilution Factor: (100/5)

ANALYTE	UNITS	LCS CONC	LCS RESULT	%REC	METH BLANK	SPL CONC*	SPK ADDED*	MS RESULT*	MSD RESULT*	%MS REC	%MSD REC	% REC Limit	RPD	RPD Limit	DLR
Antimony	mg/kg	5.0	5.0	100	ND	ND	5.0	4.2	5.2	84	104	50-120	21	0-30	2.0
Arsenic	mg/kg	5.0	5.7	114	ND	ND	5.0	4.9	4.8	98	96	70-120	2	0-20	0.01
Barium	mg/kg	5.0	5.1	102	ND	ND	5.0	5.0	5.0	100	100	60-120	0	0-30	4.0
Beryllium	mg/kg	5.0	5.2	104	ND	ND	5.0	4.7	4.8	94	96	60-120	2	0-20	0.1
Cadmium	mg/kg	5.0	5.5	110	ND	ND	5.0	4.9	4.8	98	96	55-120	2	0-20	0.1
Chromium, T.	mg/kg	5.0	5.4	108	ND	ND	5.0	5.0	5.0	100	100	60-120	0	0-20	0.4
Cobalt	mg/kg	5.0	5.5	110	ND	ND	5.0	4.9	4.9	98	98	70-120	0	0-20	0.5
Copper	mg/kg	5.0	5.1	102	ND	ND	5.0	4.7	4.6	94	92	60-120	2	0-30	0.2
Lead	mg/kg	5.0	5.1	102	ND	ND	5.0	4.4	4.4	88	88	55-120	0	0-20	0.5
Molybdenum	mg/kg	5.0	4.8	96	ND	ND	5.0	4.5	4.4	90	88	55-120	2	0-30	0.6
Nickel	mg/kg	5.0	5.4	108	ND	ND	5.0	4.9	4.8	98	96	60-120	2	0-30	0.6
Selenium	mg/kg	5.0	5.3	106	ND	ND	5.0	4.5	4.5	90	90	55-120	0	0-30	0.01
Silver**	mg/kg	5.0	4.9	98	ND	ND	5.0	5.0	5.0	100	100	60-120	0	0-20	0.2
Thallium	mg/kg	5.0	5.0	100	ND	ND	5.0	4.4	4.4	88	88	55-120	0	0-20	1.0
Vanadium	mg/kg	5.0	5.1	102	ND	ND	5.0	4.8	4.7	96	94	55-120	2	0-20	2.0
Zinc	mg/kg	5.0	5.3	106	ND	ND	5.0	4.6	4.6	92	92	55-120	0	0-30	0.3

* Sample and spike concentrations must be multiplied by the dilution factor to obtain final result.

** Analysis done by AAS.

Reviewed/Approved by:

Tim L. Lebkuecher

Tim L. Lebkuecher
 QA Officer

Date:

1/17/94

Spike Recovery and RPD Summary Report

Method: 6010
 Analyst: ECP/KS
 QA File: 4012- 1
 Data File: 0112- 1

Analysis Date: 01/12/94
 Digestion Date: 01/06/94
 Sample ID: Blank
 Matrix: Soil
 Dilution Factor: (100/5)

ANALYTE	UNITS	LCS CONC	LCS RESULT	%REC	METH BLANK	SPL CONC*	SPK ADDED*	MS RESULT*	MSD RESULT*	%MS REC	%MSD REC	% REC Limit	RPD	RPD Limit	DLR
Antimony	mg/kg	5.0	5.1	102	ND	ND	5.0	4.3	4.5	87	91	50-120	5	0-30	2.0
Arsenic	mg/kg	5.0	5.1	102	ND	ND	5.0	4.6	4.8	91	96	70-120	5	0-20	0.01
Barium	mg/kg	5.0	5.1	102	ND	ND	5.0	4.8	5.0	96	100	60-120	5	0-30	4.0
Beryllium	mg/kg	5.0	5.2	104	ND	ND	5.0	4.6	4.9	91	98	60-120	7	0-20	0.1
Cadmium	mg/kg	5.0	5.2	104	ND	ND	5.0	4.7	4.9	93	98	55-120	5	0-20	0.1
Chromium, T.	mg/kg	5.0	5.1	102	ND	ND	5.0	4.6	5.0	93	100	60-120	8	0-20	0.4
Cobalt	mg/kg	5.0	5.2	104	ND	ND	5.0	4.8	5.0	95	100	70-120	6	0-20	0.5
Copper	mg/kg	5.0	5.1	102	ND	ND	5.0	4.6	5.0	93	100	60-120	7	0-30	0.2
Lead	mg/kg	5.0	5.1	102	ND	ND	5.0	4.5	4.8	89	95	55-120	7	0-20	0.5
Molybdenum	mg/kg	5.0	5.2	104	ND	ND	5.0	4.6	4.9	92	98	55-120	6	0-30	0.6
Nickel	mg/kg	5.0	5.2	104	ND	ND	5.0	4.6	4.9	91	99	60-120	8	0-30	0.6
Selenium	mg/kg	5.0	5.2	104	ND	ND	5.0	4.5	4.8	91	95	55-120	5	0-30	0.01
Silver**	mg/kg	5.0	5.5	110	ND	ND	5.0	5.0	5.0	100	100	60-120	0	0-20	0.2
Thallium	mg/kg	5.0	5.1	102	ND	ND	5.0	4.7	4.8	94	96	55-120	2	0-20	1.0
Vanadium	mg/kg	5.0	5.1	102	ND	ND	5.0	4.7	5.0	94	100	55-120	6	0-20	2.0
Zinc	mg/kg	5.0	5.2	104	ND	ND	5.0	4.5	4.6	90	93	55-120	4	0-30	0.3

* Sample and spike concentrations must be multiplied by the dilution factor to obtain final result.

** Analysis done by AAS.

Reviewed/Approved by: Tim L. Lebkuecher
 Tim L. Lebkuecher
 QA Officer

Date: 1/17/94

Spike Recovery and RPD Summary Report

Method: 6010
 Analyst: ECP/KS
 QA File: 4012-4
 Data File: 0112-1

Analysis Date: 01/12/94
 Digestion Date: 01/06/94
 Sample ID: Blank
 Matrix: Soil
 Dilution Factor: (100/5)

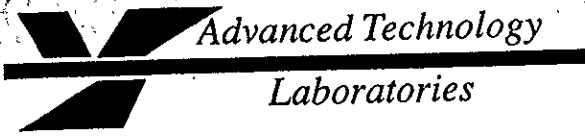
ANALYTE	UNITS	LCS CONC	LCS RESULT	%REC	METH BLANK	SPL CONC*	SFK ADDED*	MS RESULT*	MSD RESULT*	%MS REC	%MSD REC	% REC Limit	RPD	RPD Limit	DLR
Antimony	mg/kg	5.0	5.0	100	ND	ND	5.0	4.7	4.9	94	98	50-120	4	0-30	2.0
Arsenic	mg/kg	5.0	5.6	112	ND	ND	5.0	4.6	4.7	92	94	70-120	2	0-20	0.01
Barium	mg/kg	5.0	5.1	102	ND	ND	5.0	4.8	4.9	96	98	60-120	2	0-30	4.0
Beryllium	mg/kg	5.0	5.1	102	ND	ND	5.0	4.5	4.6	90	92	60-120	2	0-20	0.1
Cadmium	mg/kg	5.0	5.3	106	ND	ND	5.0	4.5	4.6	90	92	55-120	2	0-20	0.1
Chromium, T.	mg/kg	5.0	5.3	106	ND	ND	5.0	4.7	4.9	94	98	60-120	4	0-20	0.4
Cobalt	mg/kg	5.0	5.3	106	ND	ND	5.0	4.7	4.8	94	96	70-120	2	0-20	0.5
Copper	mg/kg	5.0	5.1	102	ND	ND	5.0	4.8	4.7	96	94	60-120	2	0-30	0.2
Lead	mg/kg	5.0	5.3	106	ND	ND	5.0	4.5	4.7	90	94	55-120	4	0-20	0.5
Molybdenum	mg/kg	5.0	5.2	104	ND	ND	5.0	4.9	4.8	98	96	55-120	2	0-30	0.6
Nickel	mg/kg	5.0	5.3	106	ND	ND	5.0	4.7	4.8	94	96	60-120	2	0-30	0.6
Selenium	mg/kg	5.0	5.2	104	ND	ND	5.0	4.6	4.6	92	92	55-120	0	0-30	0.01
Silver**	mg/kg	5.0	6.3	126	ND	ND	5.0	5.0	5.0	100	100	60-120	0	0-20	0.2
Thallium	mg/kg	5.0	5.3	106	ND	ND	5.0	4.8	4.8	96	96	55-120	0	0-20	1.0
Vanadium	mg/kg	5.0	5.1	102	ND	ND	5.0	4.8	4.9	96	98	55-120	2	0-20	2.0
Zinc	mg/kg	5.0	5.3	106	ND	ND	5.0	4.5	4.5	90	90	55-120	0	0-30	0.3

* Sample and spike concentrations must be multiplied by the dilution factor to obtain final result.

** Analysis done by AAS.

Reviewed/Approved by: Tim L. Lebkuecher
 Tim L. Lebkuecher
 QA Officer

Date: 1/17/94



January 18, 1994

ELAP No.: 1838
Exp. Date: 12-31-94

Apex Environmental Recovery, Inc.
5772 Bolsa Avenue, Suite 230
Huntington Beach, CA 92649

ATTN: Ms. Jane Campbell

Project #: Bay Bridge 153 DT Oakland, CA
Caltrans T.O.#: 04-04343K-01
Sample Date: Dec. 29, 1993
Lab No.: 940114-060/065

Gentlemen:

Enclosed are the results for sample(s) received by Advanced Technology Laboratories on Jan. 3, 1994 and tested for the following parameters:

EPA 7000 Series (WET)
WET Extraction

The sample(s) arrived chilled, intact, with a chain of custody record attached.

Thank you for the opportunity to service the needs of your company. Please feel free to call me at (310) 989 - 4045 if I can be of further assistance to your company.

Sincerely,

Chris Duncan
Assistant Laboratory Director
CD/an

Enclosures

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: See Below
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Extracted: 01/14/94
 Date Analyzed: 01/17/94
 Amended: 01/18/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans TO#: 04-04343K-01
 Sample I.D.: See Below
 Matrix: Soil

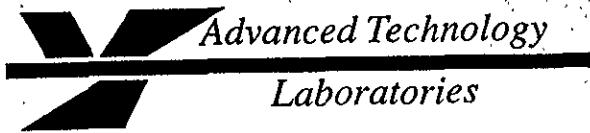
EPA 7420
 (STLC, mg/l)

ATL Lab ID:	940114-060	940114-060 Dup	940114-061	940114-062	940114-063	940114-064	940114-065
Client ID No.:	B36C1-0	B36C1-0	B33C1-0	B31C2-0	B31C1-0	3050N-0	32/3350-N-0
Antimony							
Arsenic							
Barium							
Beryllium							
Cadmium							
Chromium, T							
Cobalt							
Copper							
Lead	248	249	7.6	ND	5.4	26	59
Mercury							
Molybdenum							
Nickel							
Selenium							
Silver							
Thallium							
Vanadium							
Zinc							
DLR	4.8	4.8	0.12	0.12	0.12	0.48	1.2

Note: Analysis was performed on an STLC extraction of the sample.
 ND = Not detected. Below indicated limit of detection.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/18/94



January 18, 1994

ELAP No.: 1838
Exp. Date: 12-31-94

Apex Environmental Recovery, Inc.
5772 Bolsa Avenue, Suite 230
Huntington Beach, CA 92649

ATTN: Ms. Jane Campbell

Project #: Bay Bridge 153 DT Oakland, CA
Caltrans T.O.#: 04-04343K-01
Sample Date: Dec. 30 & 31, 1993
Lab No.: 940114-066/084

Gentlemen:

Enclosed are the results for sample(s) received by Advanced Technology Laboratories on Jan. 3 & 4, 1994 and tested for the following parameters:

EPA 7000 Series (WET)
WET Extraction

The sample(s) arrived chilled, intact, with a chain of custody record attached.

Thank you for the opportunity to service the needs of your company. Please feel free to call me at (310) 989 - 4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Chris Duncan', with a small flourish at the end.

Chris Duncan
Assistant Laboratory Director
CD/an

Enclosures

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: See Below
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/14/94
 Date Analyzed: 01/17/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans TO#: 04-04343K-01
 Sample I.D.: See Below
 Matrix: Soil

EPA 7420
 (STLC, mg/l)

ATL Lab ID:	940114-066	940114-067	940114-068	940114-069	940114-070	940114-071
Client ID No.:	<u>B24C1-0</u>	<u>B24C1-0</u>	<u>B24C1-3</u>	<u>B25C1-0</u>	<u>B25C1-0</u>	<u>B26C1-0</u>
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Chromium, T						
Cobalt						
Copper						
Lead	69	2.9	2.8	0.93	1.0	18
Mercury						
Molybdenum						
Nickel						
Selenium						
Silver						
Thallium						
Vanadium						
Zinc						
DLR	1.2	0.12	0.12	0.12	0.12	0.48

Note: Analysis was performed on an STLC extraction of the sample.
 ND = Not detected. Below indicated limit of detection.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/18/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: See Below
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/14/94
 Date Analyzed: 01/17/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans TO#: 04-04343K-01
 Sample I.D.: See Below
 Matrix: Soil

EPA 7420
 (STLC, mg/l)

ATL Lab ID:	940114-072	940114-073	940114-073	940114-074	940114-075	940114-076
Client ID No.:	B26C1-3	B27C1-0	B27C1-0	B24C2-0	B26C2-0	B27C2-3
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Chromium, T *			0.29			
Cobalt						
Copper						
Lead	3.2	8.0		6.1	2.9	6.0
Mercury						
Molybdenum						
Nickel						
Selenium						
Silver						
Thallium						
Vanadium						
Zinc						
DLR	0.12	0.12	0.1	0.12	0.12	0.12

Note: Analysis was performed on an STLC extraction of the sample.
 ND = Not detected. Below indicated limit of detection.

* = EPA 7190.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/18/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: See Below
 Date Sampled: 12/30-31/93
 Date Received: 01/04/94
 Date Extracted: 01/14/94
 Date Analyzed: 01/17/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans TO#: 04-04343K-01
 Sample I.D.: See Below
 Matrix: Soil

EPA 7420
 (STLC, mg/l)

ATL Lab ID:	940114-077	940114-077 Dup	940114-078	940114-079	940114-080	940114-081
Client ID No.:	B30C2-0	B30C2-0	24/25-50N-0	26/27-50N-0	24/25-50S-0	B28C2-0
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Chromium, T						
Cobalt						
Copper						
Lead	80	73	3.1	6.4	100	96
Mercury						
Molybdenum						
Nickel						
Selenium						
Silver						
Thallium						
Vanadium						
Zinc						
DLR	1.2	1.2	0.12	0.12	1.2	1.2

Note: Analysis was performed on an STLC extraction of the sample.
 ND = Not detected. Below indicated limit of detection.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/18/94

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab ID No.: See Below
 Date Sampled: 12/30-31/93
 Date Received: 01/04/94
 Date Extracted: 01/14/94
 Date Analyzed: 01/17/94

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans TO#: 04-04343K-01
 Sample I.D.: See Below
 Matrix: Soil

EPA 7420
 (STLC, mg/l)

ATL Lab ID:	940114-082	940114-083	940114-084			
<u>Client ID No.:</u>	<u>B28C2-2</u>	<u>B33C2-0</u>	<u>B33C2-3</u>			
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Chromium, T						
Cobalt						
Copper						
Lead	87	94	69*			
Mercury						
Molybdenum						
Nickel						
Selenium						
Silver						
Thallium						
Vanadium						
Zinc						
DLR	1.2	1.2	1.0			

Note: Analysis was performed on an STLC extraction of the sample.
 ND = Not detected. Below indicated limit of detection.

* = Sample B33C2-3 is non-homogeneous.

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/18/94

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

Client: Apex Environmental Recovery, Inc.
Address: 5772 Bolsa Avenue, Ste. 230
Huntington Beach, CA 92649
Attn: Ms. Jane Campbell

Lab No.: See Below
Date Sampled: 12/30/93
Date Received: 01/04/94

Project: Bay Bridge 153 DT Oakland, CA
Caltrans TO#: 04-04343K-01
Matrix: Water

EPA METHOD 418.1 (TRPH)					
LAB NO.	SAMPLE ID	DATE ANALYZED	RESULTS	UNITS	DLR
940104-039	B24C1 W	01/14/94	0.20	mg/l	0.13
940104-040	B25C1 W	01/14/94	0.14	mg/l	0.07
940104-041	B27C2 W	01/14/94	ND	mg/l	0.08
940104-041 Dup	B27C2 W	01/14/94	ND	mg/l	0.08

ND = Not Detected. Below indicated limit of detection.

Reviewed and Approved By: Chris Duncan
Chris Duncan
Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

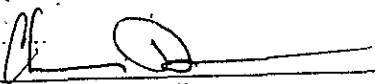
Lab No.: 940104-039
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/06/94
 Extraction Method: 3510
 Extraction Material: Methylene Chloride
 Dilution Factor: 1.8

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Water
 Sample ID: B24C1-W

EPA Method 8270

ANALYTE	Results, ug/l	DLR, ug/l	ANALYTE	Results, ug/l	DLR, ug/l
Phenol	ND	18	3-Nitroaniline	ND	90
bis(2-Chloroethyl)ether	ND	18	Acenaphthene	ND	18
2-Chlorophenol	ND	18	2,4-Dinitrophenol	ND	90
1,3-Dichlorobenzene	ND	18	Dibenzofuran	ND	18
1,4-Dichlorobenzene	ND	18	4-Nitrophenol	ND	90
Benzyl Alcohol	ND	36	2,4-Dinitrotoluene	ND	18
1,2-Dichlorobenzene	ND	18	Fluorene	ND	18
2-Methylphenol	ND	18	Diethylphthalate	ND	18
bis(2-chloroisopropyl)ether	ND	18	4-Chlorophenyl-phenyl ether	ND	18
n-Nitroso-dl-n-propylamine	ND	18	4-Nitroaniline	ND	90
4-Methylphenol	ND	18	4,6-Dinitro-2-methylphenol	ND	90
Hexachloroethane	ND	18	n-Nitrosodiphenylamine	ND	18
Nitrobenzene	ND	18	4-Bromophenyl-phenyl ether	ND	18
Isophorone	ND	18	Hexachlorobenzene	ND	18
2-Nitrophenol	ND	18	Pentachlorophenol	ND	90
2,4-Dimethylphenol	ND	18	Phenanthrene	ND	18
bis(2-Chloroethoxy)methane	ND	18	Anthracene	ND	18
2,4-Dichlorophenol	ND	18	Di-n-butylphthalate	ND	18
Benzoic Acid	ND	90	Fluoranthene	ND	18
1,2,4-Trichlorobenzene	ND	18	Pyrene	ND	18
Naphthalene	ND	18	Butylbenzylphthalate	ND	18
4-Chloroaniline	ND	36	Benzo[a]anthracene	ND	18
Hexachlorobutadiene	ND	18	3,3'-Dichlorobenzidine	ND	36
4-Chloro-3-methylphenol	ND	36	Chrysene	ND	18
2-Methylnaphthalene	ND	18	bis(2-Ethylhexyl)phthalate	ND	18
Hexachlorocyclopentadiene	ND	36	Di-n-octylphthalate	ND	18
2,4,6-Trichlorophenol	ND	18	Benzo[b]fluoranthene	ND	18
2,4,5-Trichlorophenol	ND	27	Benzo[k]fluoranthene	ND	18
2-Chloronaphthalene	ND	18	Benzo[a]pyrene	ND	18
2-Nitroaniline	ND	90	Indeno[1,2,3-cd]pyrene	ND	18
Dimethylphthalate	ND	18	Dibenz[a,h]anthracene	ND	18
Acenaphthylene	ND	18	Benzo[g,h,i]perylene	ND	18
2,6-Dinitrotoluene	ND	18			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor.

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-040
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/06/94
 Extraction Method: 3510
 Extraction Material: Methylene Chloride
 Dilution Factor: 1.1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Water
 Sample ID: B25C1-W

EPA Method 8270

ANALYTE	Results, ug/l	DLR, ug/l	ANALYTE	Results, ug/l	DLR, ug/l
Phenol	ND	11	3-Nitroaniline	ND	55
bis(2-Chloroethyl)ether	ND	11	Acenaphthene	ND	11
2-Chlorophenol	ND	11	2,4-Dinitrophenol	ND	55
1,3-Dichlorobenzene	ND	11	Dibenzofuran	ND	11
1,4-Dichlorobenzene	ND	11	4-Nitrophenol	ND	55
Benzyl Alcohol	ND	22	2,4-Dinitrotoluene	ND	11
1,2-Dichlorobenzene	ND	11	Fluorene	ND	11
2-Methylphenol	ND	11	Diethylphthalate	ND	11
bis(2-chloroisopropyl)ether	ND	11	4-Chlorophenyl-phenyl ether	ND	11
n-Nitroso-di-n-propylamine	ND	11	4-Nitroaniline	ND	55
4-Methylphenol	ND	11	4,6-Dinitro-2-methylphenol	ND	55
Hexachloroethane	ND	11	n-Nitrosodiphenylamine	ND	11
Nitrobenzene	ND	11	4-Bromophenyl-phenyl ether	ND	11
Isophorone	ND	11	Hexachlorobenzene	ND	55
2-Nitrophenol	ND	11	Pentachlorophenol	ND	11
2,4-Dimethylphenol	ND	11	Phenanthrene	ND	11
bis(2-Chloroethoxy)methane	ND	11	Anthracene	ND	11
2,4-Dichlorophenol	ND	11	Di-n-butylphthalate	ND	11
Benzoic Acid	ND	55	Fluoranthene	ND	11
1,2,4-Trichlorobenzene	ND	11	Pyrene	ND	11
Naphthalene	ND	11	Butylbenzylphthalate	ND	11
4-Chloroaniline	ND	22	Benzo[a]anthracene	ND	11
Hexachlorobutadiene	ND	11	3,3'-Dichlorobenzidine	ND	22
4-Chloro-3-methylphenol	ND	22	Chrysene	ND	11
2-Methylnaphthalene	ND	11	bis(2-Ethylhexyl)phthalate	ND	11
Hexachlorocyclopentadiene	ND	22	Di-n-octylphthalate	ND	11
2,4,6-Trichlorophenol	ND	11	Benzo[b]fluoranthene	ND	11
2,4,5-Trichlorophenol	ND	17	Benzo[k]fluoranthene	ND	11
2-Chloronaphthalene	ND	11	Benzo[a]pyrene	ND	11
2-Nitroaniline	ND	55	Indeno[1,2,3-cd]pyrene	ND	11
Dimethylphthalate	ND	11	Dibenz[a,h]anthracene	ND	11
Acenaphthylene	ND	11	Benzo[g,h,i]perylene	ND	11
2,6-Dinitrotoluene	ND	11			

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

Reviewed/Approved By: Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell


Lab No.: 940104-041
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/06/94
 Extraction Method: 3510
 Extraction Material: Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Water
 Sample ID: B27C2-W

EPA Method 8270

ANALYTE	Results, ug/l	DLR, ug/l	ANALYTE	Results, ug/l	DLR, ug/l
Phenol	ND	10	3-Nitroaniline	ND	50
bis(2-Chloroethyl)ether	ND	10	Acenaphthene	ND	10
2-Chlorophenol	ND	10	2,4-Dinitrophenol	ND	50
1,3-Dichlorobenzene	ND	10	Dibenzofuran	ND	10
1,4-Dichlorobenzene	ND	10	4-Nitrophenol	ND	50
Benzyl Alcohol	ND	20	2,4-Dinitrotoluene	ND	10
1,2-Dichlorobenzene	ND	10	Fluorene	ND	10
2-Methylphenol	ND	10	Diethylphthalate	ND	10
bis(2-chloroisopropyl)ether	ND	10	4-Chlorophenyl-phenyl ether	ND	10
n-Nitroso-di-n-propylamine	ND	10	4-Nitroaniline	ND	50
4-Methylphenol	ND	10	4,6-Dinitro-2-methylphenol	ND	50
Hexachloroethane	ND	10	n-Nitrosodiphenylamine	ND	10
Nitrobenzene	ND	10	4-Bromophenyl-phenyl ether	ND	10
Isophorone	ND	10	Hexachlorobenzene	ND	10
2-Nitrophenol	ND	10	Pentachlorophenol	ND	50
2,4-Dimethylphenol	ND	10	Phenanthrene	ND	10
bis(2-Chloroethoxy)methane	ND	10	Anthracene	ND	10
2,4-Dichlorophenol	ND	10	Di-n-butylphthalate	ND	10
Benzoic Acid	ND	50	Fluoranthene	ND	10
1,2,4-Trichlorobenzene	ND	10	Pyrene	ND	10
Naphthalene	ND	10	Butylbenzylphthalate	ND	10
4-Chloroaniline	ND	20	Benzo[a]anthracene	ND	10
Hexachlorobutadiene	ND	10	3,3'-Dichlorobenzidine	ND	20
4-Chloro-3-methylphenol	ND	20	Chrysene	ND	10
2-Methylnaphthalene	ND	10	bis(2-Ethylhexyl)phthalate	ND	10
Hexachlorocyclopentadiene	ND	20	Di-n-octylphthalate	ND	10
2,4,6-Trichlorophenol	ND	10	Benzo[b]fluoranthene	ND	10
2,4,5-Trichlorophenol	ND	15	Benzo[k]fluoranthene	ND	10
2-Chloronaphthalene	ND	10	Benzo[a]pyrene	ND	10
2-Nitroaniline	ND	50	Indeno[1,2,3-cd]pyrene	ND	10
Dimethylphthalate	ND	10	Dibenz[a,h.]anthracene	ND	10
Acenaphthylene	ND	10	Benzo[g,h,i]perylene	ND	10
2,6-Dinitrotoluene	ND	10			

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

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-Blank 2
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/06/94
 Date Analyzed: 01/07/94
 Extraction Method: 3510
 Extraction Material: Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Water

EPA Method 8270

ANALYTE	Results, ug/l	DLR, ug/l	ANALYTE	Results, ug/l	DLR, ug/l
Phenol	ND	10	3-Nitroaniline	ND	50
bis(2-Chloroethyl)ether	ND	10	Acenaphthene	ND	10
2-Chlorophenol	ND	10	2,4-Dinitrophenol	ND	50
1,3-Dichlorobenzene	ND	10	Dibenzofuran	ND	10
1,4-Dichlorobenzene	ND	10	4-Nitrophenol	ND	50
Benzyl Alcohol	ND	20	2,4-Dinitrotoluene	ND	10
1,2-Dichlorobenzene	ND	10	Fluorene	ND	10
2-Methylphenol	ND	10	Diethylphthalate	ND	10
bis(2-chloroisopropyl)ether	ND	10	4-Chlorophenyl-phenyl ether	ND	10
n-Nitroso-di-n-propylamine	ND	10	4-Nitroaniline	ND	50
4-Methylphenol	ND	10	4,6-Dinitro-2-methylphenol	ND	50
Hexachloroethane	ND	10	n-Nitrosodiphenylamine	ND	10
Nitrobenzene	ND	10	4-Bromophenyl-phenyl ether	ND	10
Isophorone	ND	10	Hexachlorobenzene	ND	10
2-Nitrophenol	ND	10	Pentachlorophenol	ND	50
2,4-Dimethylphenol	ND	10	Phenanthrene	ND	10
bis(2-Chloroethoxy)methane	ND	10	Anthracene	ND	10
2,4-Dichlorophenol	ND	10	Di-n-butylphthalate	ND	10
Benzoic Acid	ND	50	Fluoranthene	ND	10
1,2,4-Trichlorobenzene	ND	10	Pyrene	ND	10
Naphthalene	ND	10	Butylbenzylphthalate	ND	10
4-Chloroaniline	ND	20	Benzo[a]anthracene	ND	10
Hexachlorobutadiene	ND	10	3,3'-Dichlorobenzidine	ND	20
4-Chloro-3-methylphenol	ND	20	Chrysene	ND	10
2-Methylnaphthalene	ND	10	bis(2-Ethylhexyl)phthalate	ND	10
Hexachlorocyclopentadiene	ND	20	Di-n-octylphthalate	ND	10
2,4,6-Trichlorophenol	ND	10	Benzo[b]fluoranthene	ND	10
2,4,5-Trichlorophenol	ND	15	Benzo[k]fluoranthene	ND	10
2-Chloronaphthalene	ND	10	Benzo[a]pyrene	ND	10
2-Nitroaniline	ND	50	Indeno[1,2,3-cd]pyrene	ND	10
Dimethylphthalate	ND	10	Dibenz[a,h]anthracene	ND	10
Acenaphthylene	ND	10	Benzo[g,h,i]perylene	ND	10
2,6-Dinitrotoluene	ND	10			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell


Lab No.: 940104-Blank 1
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/05/94
 Date Analyzed: 01/06/94
 Extraction Method: 3510
 Extraction Material: Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Water

EPA Method 8270

ANALYTE	Results, ug/l	DLR, ug/l	ANALYTE	Results, ug/l	DLR, ug/l
Phenol	ND	10	3-Nitroaniline	ND	50
bis(2-Chloroethyl)ether	ND	10	Acenaphthene	ND	10
2-Chlorophenol	ND	10	2,4-Dinitrophenol	ND	50
1,3-Dichlorobenzene	ND	10	Dibenzofuran	ND	10
1,4-Dichlorobenzene	ND	10	4-Nitrophenol	ND	50
Benzyl Alcohol	ND	20	2,4-Dinitrotoluene	ND	10
1,2-Dichlorobenzene	ND	10	Fluorene	ND	10
2-Methylphenol	ND	10	Diethylphthalate	ND	10
bis(2-chloroisopropyl)ether	ND	10	4-Chlorophenyl-phenyl ether	ND	10
n-Nitroso-di-n-propylamine	ND	10	4-Nitroaniline	ND	50
4-Methylphenol	ND	10	4,6-Dinitro-2-methylphenol	ND	50
Hexachloroethane	ND	10	n-Nitrosodiphenylamine	ND	10
Nitrobenzene	ND	10	4-Bromophenyl-phenyl ether	ND	10
Isophorone	ND	10	Hexachlorobenzene	ND	10
2-Nitrophenol	ND	10	Pentachlorophenol	ND	50
2,4-Dimethylphenol	ND	10	Phenanthrene	ND	10
bis(2-Chloroethoxy)methane	ND	10	Anthracene	ND	10
2,4-Dichlorophenol	ND	10	Di-n-butylphthalate	ND	10
Benzoic Acid	ND	50	Fluoranthene	ND	10
1,2,4-Trichlorobenzene	ND	10	Pyrene	ND	10
Naphthalene	ND	10	Butylbenzylphthalate	ND	10
4-Chloroaniline	ND	20	Benzo[a]anthracene	ND	10
Hexachlorobutadiene	ND	10	3,3'-Dichlorobenzidine	ND	20
4-Chloro-3-methylphenol	ND	20	Chrysene	ND	10
2-Methylnaphthalene	ND	10	bis(2-Ethylhexyl)phthalate	ND	10
Hexachlorocyclopentadiene	ND	20	Di-n-octylphthalate	ND	10
2,4,6-Trichlorophenol	ND	10	Benzo[b]fluoranthene	ND	10
2,4,5-Trichlorophenol	ND	15	Benzo[k]fluoranthene	ND	10
2-Chloronaphthalene	ND	10	Benzo[a]pyrene	ND	10
2-Nitroaniline	ND	50	Indeno[1,2,3-cd]pyrene	ND	10
Dimethylphthalate	ND	10	Dibenz[a,h]anthracene	ND	10
Acenaphthylene	ND	10	Benzo[g,h,i]perylene	ND	10
2,6-Dinitrotoluene	ND	10			

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

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell


Lab No.: 940104-LCS 1
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/07/94
 Date Analyzed: 01/10/94
 Extraction Method: 3510
 Extraction Material: Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Water

EPA Method 8270

ANALYTE	Results, ug/l	% Recovery	ANALYTE	Results, ug/l	% Recovery
Phenol	31	31	3-Nitroaniline	55	55
bis(2-Chloroethyl)ether	57	57	Acenaphthene	59	59
2-Chlorophenol	56	56	2,4-Dinitrophenol	84	84
1,3-Dichlorobenzene	44	44	Dibenzofuran	64	64
1,4-Dichlorobenzene	47	47	4-Nitrophenol	40	40
Benzyl Alcohol	54	54	2,4-Dinitrotoluene	84	84
1,2-Dichlorobenzene	47	47	Fluorene	63	63
2-Methylphenol	57	57	Diethylphthalate	46	46
bis(2-chloroisopropyl)ether	63	63	4-Chlorophenyl-phenyl ether	61	61
n-Nitroso-di-n-propylamine	63	63	4-Nitroaniline	45	45
4-Methylphenol	48	48	4,6-Dinitro-2-methylphenol	86	86
Hexachloroethane	47	47	n-Nitrosodiphenylamine	63	63
Nitrobenzene	63	63	4-Bromophenyl-phenyl ether	66	66
Isophorone	78	78	Hexachlorobenzene	68	68
2-Nitrophenol	53	53	Pentachlorophenol	70	70
2,4-Dimethylphenol	23	23	Phenanthrene	68	68
bis(2-Chloroethoxy)methane	63	63	Anthracene	68	68
2,4-Dichlorophenol	63	63	Di-n-butylphthalate	73	73
Benzoic Acid	44	44	Fluoranthene	68	68
1,2,4-Trichlorobenzene	49	49	Pyrene	67	67
Naphthalene	54	54	Butylbenzylphthalate	71	71
4-Chloroaniline	54	54	Benzo[a]anthracene	72	72
Hexachlorobutadiene	48	48	3,3'-Dichlorobenzidine	NA	NA
4-Chloro-3-methylphenol	69	69	Chrysene	72	72
2-Methylnaphthalene	59	59	bis(2-Ethylhexyl)phthalate	75	75
Hexachlorocyclopentadiene	50	50	Di-n-octylphthalate	63	63
2,4,6-Trichlorophenol	76	76	Benzo[b]fluoranthene	64	64
2,4,5-Trichlorophenol	69	69	Benzo[k]fluoranthene	60	60
2-Chloronaphthalene	59	59	Benzo[a]pyrene	70	70
2-Nitroaniline	75	75	Indeno[1,2,3-cd]pyrene	70	70
Dimethylphthalate	24	24	Dibenz[a,h]anthracene	70	70
Acenaphthylene	66	66	Benzo[g,h,i]perylene	72	72
2,6-Dinitrotoluene	67	67			

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

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

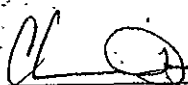
Lab No.: 940104-Blank 3
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/10/94
 Date Analyzed: 01/12/94
 Extraction Method: 3510
 Extraction Material: Methylene Chloride
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Water

EPA Method 8270

ANALYTE	Results, ug/l	DLR, ug/l	ANALYTE	Results, ug/l	DLR, ug/l
Phenol	ND	10	3-Nitroaniline	ND	50
bis(2-Chloroethyl)ether	ND	10	Acenaphthene	ND	10
2-Chlorophenol	ND	10	2,4-Dinitrophenol	ND	50
1,3-Dichlorobenzene	ND	10	Dibenzofuran	ND	10
1,4-Dichlorobenzene	ND	10	4-Nitrophenol	ND	50
Benzyl Alcohol	ND	20	2,4-Dinitrotoluene	ND	10
1,2-Dichlorobenzene	ND	10	Fluorene	ND	10
2-Methylphenol	ND	10	Diethylphthalate	ND	10
bis(2-chloroisopropyl)ether	ND	10	4-Chlorophenyl-phenyl ether	ND	10
n-Nitroso-di-n-propylamine	ND	10	4-Nitroaniline	ND	50
4-Methylphenol	ND	10	4,6-Dinitro-2-methylphenol	ND	50
Hexachloroethane	ND	10	n-Nitrosodiphenylamine	ND	10
Nitrobenzene	ND	10	4-Bromophenyl-phenyl ether	ND	10
Isophorone	ND	10	Hexachlorobenzene	ND	10
2-Nitrophenol	ND	10	Pentachlorophenol	ND	50
2,4-Dimethylphenol	ND	10	Phenanthrene	ND	10
bis(2-Chloroethoxy)methane	ND	10	Anthracene	ND	10
2,4-Dichlorophenol	ND	10	Di-n-butylphthalate	ND	10
Benzolic Acid	ND	50	Fluoranthene	ND	10
1,2,4-Trichlorobenzene	ND	10	Pyrene	ND	10
Naphthalene	ND	10	Butylbenzylphthalate	ND	10
4-Chloroaniline	ND	20	Benzo[a]anthracene	ND	10
Hexachlorobutadiene	ND	10	3,3'-Dichlorobenzidine	ND	20
4-Chloro-3-methylphenol	ND	20	Chrysene	ND	10
2-Methylnaphthalene	ND	10	bis(2-Ethylhexyl)phthalate	ND	10
Hexachlorocyclopentadiene	ND	20	Di-n-octylphthalate	ND	10
2,4,6-Trichlorophenol	ND	10	Benzo[b]fluoranthene	ND	10
2,4,5-Trichlorophenol	ND	15	Benzo[k]fluoranthene	ND	10
2-Chloronaphthalene	ND	10	Benzo[a]pyrene	ND	10
2-Nitroaniline	ND	50	Indeno[1,2,3-cd]pyrene	ND	10
Dimethylphthalate	ND	10	Dibenz[a,h]anthracene	ND	10
Acenaphthylene	ND	10	Benzo[g,h,i]perylene	ND	10
2,6-Dinitrotoluene	ND	10			

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

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-039 Dup
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/07/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Water
 Sample ID: B24C1-W

EPA Method 8240

ANALYTE	Results, ug/l	DLR, ug/l	ANALYTE	Results, ug/l	DLR, ug/l
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-039
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/07/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Water
 Sample ID: B24C1-W

EPA Method 8240

ANALYTE	Results, ug/l	DLR, ug/l	ANALYTE	Results, ug/l	DLR, ug/l
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-040
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/07/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Water
 Sample ID: B25C1-W

EPA Method 8240

ANALYTE	Results, ug/l	DLR, ug/l	ANALYTE	Results, ug/l	DLR, ug/l
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-041
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/07/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Water
 Sample ID: B27C2-W

EPA Method 8240

ANALYTE	Results, ug/l	DLR, ug/l	ANALYTE	Results, ug/l	DLR, ug/l
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: Chris Duncan

Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-LCS
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Analyzed: 01/06/94
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Matrix: Water

EPA Method 8240

ANALYTE	Results, ug/l	% Recovery	ANALYTE	Results, ug/l	% Recovery
Acetone	NA	NA	1,1-Dichloroethene	54	108
Acrolein	NA	NA	cis-1,2-Dichloroethene	NA	NA
Acrylonitrile	NA	NA	trans-1,2-Dichloroethene	50	100
Benzene	52	104	1,2-Dichloropropane	50	100
Bromodichloromethane	50	100	cis-1,3-Dichloropropene	50	100
Bromoform	48	96	trans-1,3-Dichloropropene	40	80
Bromomethane	62	124	Ethylbenzene	54	108
2-Butanone	45	90	2-Hexanone	NA	NA
Carbon Disulfide	54	108	Methylene Chloride	52	104
Carbon tetrachloride	40	80	4-Methyl-2-Pentanone	NA	NA
Chlorobenzene	53	106	Styrene	NA	NA
Chloroethane	61	122	1,1,2,2-Tetrachloroethane	52	104
2-Chloroethyl Vinyl Ether	NA	NA	Tetrachloroethene	53	106
Chloroform	50	100	Toluene	54	108
Chloromethane	92	92	1,1,1-Trichloroethane	45	90
1,2-Dichlorobenzene *	49	98	1,1,2-Trichloroethane	51	102
1,3-Dichlorobenzene *	51	102	Trichloroethene	51	102
1,4-Dichlorobenzene *	56	112	Trichlorofluoromethane	51	102
Dibromochloromethane	45	90	Vinyl Acetate	NA	NA
1,1-Dichloroethane	50	100	Vinyl Chloride	78	78
1,2-Dichloroethane	48	96	Xylenes (total)	105	105

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5572 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940103-011
 Date Sampled: 12/29/93
 Date Received: 01/03/94
 Date Analyzed: 01/05/94
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Matrix: Water

Sample ID: B32C1-W

EPA Method 8240

ANALYTE	Results, ug/l	DLR, ug/l	ANALYTE	Results, ug/l	DLR, ug/l
Acetone	ND	50	1,1-Dichloroethene	ND	5
Acrolein	ND	50	cis-1,2-Dichloroethene	ND	5
Acrylonitrile	ND	50	trans-1,2-Dichloroethene	ND	5
Benzene	ND	5	1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5	cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5	trans-1,3-Dichloropropene	ND	5
Bromomethane	ND	5	Ethylbenzene	ND	5
2-Butanone	ND	50	2-Hexanone	ND	50
Carbon Disulfide	ND	5	Methylene Chloride	ND	5
Carbon tetrachloride	ND	5	4-Methyl-2-Pentanone	ND	50
Chlorobenzene	ND	5	Styrene	ND	5
Chloroethane	ND	5	1,1,2,2-Tetrachloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5	Tetrachloroethene	ND	5
Chloroform	ND	5	Toluene	ND	5
Chloromethane	ND	5	1,1,1-Trichloroethane	ND	5
1,2-Dichlorobenzene *	ND	5	1,1,2-Trichloroethane	ND	5
1,3-Dichlorobenzene *	ND	5	Trichloroethene	ND	5
1,4-Dichlorobenzene *	ND	5	Trichlorofluoromethane	ND	5
Dibromochloromethane	ND	5	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	5
1,2-Dichloroethane	ND	5	Xylenes (total)	ND	5

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-LCS 1
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Analyzed: 01/07/94
 Dilution Factor: 1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Water

EPA Method 8240

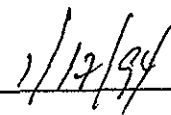
ANALYTE	Results, ug/l	% Recovery	ANALYTE	Results, ug/l	% Recovery
Acetone	36	72	1,1-Dichloroethene	50	100
Acrolein	42	84	cis-1,2-Dichloroethene	51	102
Acrylonitrile	83	83	trans-1,2-Dichloroethene	51	102
Benzene	52	104	1,2-Dichloropropane	52	104
Bromodichloromethane	52	104	cis-1,3-Dichloropropene	50	100
Bromoform	51	102	trans-1,3-Dichloropropene	49	98
Bromomethane	51	102	Ethylbenzene	52	104
2-Butanone	21	42	2-Hexanone	NA	NA
Carbon Disulfide	48	96	Methylene Chloride	51	102
Carbon tetrachloride	50	100	4-Methyl-2-Pentanone	NA	NA
Chlorobenzene	51	102	Styrene	50	100
Chloroethane	50	100	1,1,2,2-Tetrachloroethane	51	102
2-Chloroethyl Vinyl Ether	NA	NA	Tetrachloroethene	51	102
Chloroform	51	102	Toluene	53	106
Chloromethane	50	100	1,1,1-Trichloroethane	50	100
1,2-Dichlorobenzene *	48	96	1,1,2-Trichloroethane	51	102
1,3-Dichlorobenzene *	50	100	Trichloroethene	51	102
1,4-Dichlorobenzene *	47	94	Trichlorofluoromethane	49	98
Dibromochloromethane	50	100	Vinyl Acetate	37	74
1,1-Dichloroethane	50	100	Vinyl Chloride	50	100
1,2-Dichloroethane	51	102	Xylenes (total)	155	103

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 * = Additional 8240 analytes

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____



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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-041
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/06/94
 Date Analyzed: 01/08/94
 Extraction Method: 3510
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1.1


Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Water
 Sample ID: B27C2-W

EPA Method 8080

ANALYTE	Results, ug/l	DLR, ug/l	ANALYTE	Results, ug/l	DLR, ug/l
Alpha-BHC	ND	0.06	Aroclor-1016	ND	1.1
Gamma-BHC (Lindane)	ND	0.06	Aroclor-1221	ND	2.2
Beta-BHC	ND	0.06	Aroclor-1232	ND	1.1
Heptachlor	ND	0.06	Aroclor-1242	ND	1.1
Delta-BHC	ND	0.06	Aroclor-1248	ND	1.1
Aldrin	ND	0.06	Aroclor-1254	ND	1.1
Heptachlor Epoxide	ND	0.06	Aroclor-1260	ND	1.1
Endosulfan I	ND	0.06	Aroclor-1262	ND	1.1
4,4'-DDE	ND	0.11			
Dieldrin	ND	0.11			
Endrin	ND	0.11			
4,4'-DDD	ND	0.11			
Endosulfan II	ND	0.11			
4,4'-DDT	ND	0.11			
Endrin Aldehyde	ND	0.11			
Endosulfan Sulfate	ND	0.11			
Methoxychlor	ND	0.55			
Chlordane	ND	0.55			
Toxaphene	ND	5.5			

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

Reviewed/Approved By: _____


 Chris Duncan
 Assistant Laboratory Director

Date: _____

1/12/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

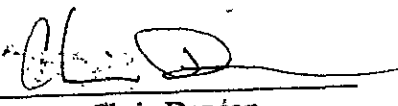
Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Water

Lab No.: 940104-Blank 1
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/06/94
 Date Analyzed: 01/08/94
 Extraction Method: 3510
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

EPA Method 8080

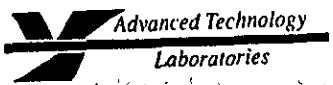
ANALYTE	Results, ug/l	DLR, ug/l	ANALYTE	Results, ug/l	DLR, ug/l
Alpha-BHC	ND	0.05	Aroclor-1016	ND	1
Gamma-BHC (Lindane)	ND	0.05	Aroclor-1221	ND	2
Beta-BHC	ND	0.05	Aroclor-1232	ND	1
Heptachlor	ND	0.05	Aroclor-1242	ND	1
Delta-BHC	ND	0.05	Aroclor-1248	ND	1
Aldrin	ND	0.05	Aroclor-1254	ND	1
Heptachlor Epoxide	ND	0.05	Aroclor-1260	ND	1
Endosulfan I	ND	0.05	Aroclor-1262	ND	1
4,4'-DDE	ND	0.1			
Dieldrin	ND	0.1			
Endrin	ND	0.1			
4,4'-DDD	ND	0.1			
Endosulfan II	ND	0.1			
4,4'-DDT	ND	0.1			
Endrin Aldehyde	ND	0.1			
Endosulfan Sulfate	ND	0.1			
Methoxychlor	ND	0.5			
Chlordane	ND	0.5			
Toxaphene	ND	5			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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



Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-LCS 1
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/07/94
 Date Analyzed: 01/08/94
 Extraction Method: 3510
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Water

EPA Method 8080

ANALYTE	Results, ug/l	% Recovery	ANALYTE	Results, ug/l	% Recovery
Alpha-BHC	0.15	75	Aroclor-1016	NA	NA
Gamma-BHC (Lindane)	0.14	70	Aroclor-1221	NA	NA
Beta-BHC	0.15	75	Aroclor-1232	NA	NA
Heptachlor	0.14	70	Aroclor-1242	NA	NA
Delta-BHC	0.17	85	Aroclor-1248	NA	NA
Aldrin	0.14	70	Aroclor-1254	1.7	85
Heptachlor Epoxide	0.15	75	Aroclor-1260	NA	NA
Endosulfan I	0.17	85	Aroclor-1262	NA	NA
4,4'-DDE	0.15	75			
Dieldrin	0.16	80			
Endrin	0.14	70			
4,4'-DDD	0.16	80			
Endosulfan II	0.16	80			
4,4'-DDT	0.17	85			
Endrin Aldehyde	0.16	80			
Endosulfan Sulfate	0.14	70			
Methoxychlor	0.75	94			
Chlordane	NA	NA			
Toxaphene	NA	NA			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 Aroclor 1254 was spiked at 2.0 ug/l.
 All analytes were spiked at 0.2 ug/l except methoxychlor which was spiked at 0.8 ug/l.

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-LCS 2
 Date Sampled: 12/31/93
 Date Received: 01/04/94
 Date Extracted: 01/07/94
 Date Analyzed: 01/08/94
 Extraction Method: 3510
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Water

EPA Method 8080

ANALYTE	Results, ug/kg	% Recovery	ANALYTE	Results, ug/kg	% Recovery
Alpha-BHC	0.15	75	Aroclor-1016	ND	1
Gamma-BHC (Lindane)	0.14	70	Aroclor-1221	ND	2
Beta-BHC	0.15	75	Aroclor-1232	ND	1
Heptachlor	0.14	76	Aroclor-1242	ND	1
Delta-BHC	0.17	85	Aroclor-1248	ND	1
Aldrin	0.14	70	Aroclor-1254	1.7	85
Heptachlor Epoxide	0.15	75	Aroclor-1260	ND	1
Endosulfan I	0.17	85	Aroclor-1262	ND	1
4,4'-DDE	0.15	75			
Dieldrin	0.16	80			
Endrin	0.14	70			
4,4'-DDD	0.16	80			
Endosulfan II	0.16	80			
4,4'-DDT	0.17	85			
Endrin Aldehyde	0.16	80			
Endosulfan Sulfate	0.14	70			
Methoxychlor	0.75	94			
Chlordane	NA	NA			
Toxaphene	NA	NA			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor
 Aroclor 1254 was spiked at 2.0 ug/l.
 All analytes were spiked at 0.2 ug/l except methoxychlor which was spiked at 0.8 ug/l.

Reviewed/Approved By: _____

Chris Duncan
 Assistant Laboratory Director

Date: _____

1/17/94

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-039
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/06/94
 Date Analyzed: 01/08-10/94
 Extraction Method: 3510
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1.4

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Water
 Sample ID: B24C1-W

EPA Method 8080

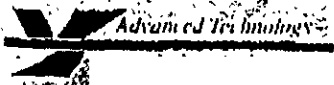
ANALYTE	Results, ug/l	DLR, ug/l	ANALYTE	Results, ug/l	DLR, ug/l
Alpha-BHC	ND	0.07	Aroclor-1016	ND	1.4
Gamma-BHC (Lindane)	ND	0.07	Aroclor-1221	ND	2.6
Beta-BHC	ND	0.07	Aroclor-1232	ND	1.4
Heptachlor	ND	0.07	Aroclor-1242	ND	1.4
Delta-BHC	ND	0.07	Aroclor-1248	ND	1.4
Aldrin	ND	0.07	Aroclor-1254	ND	1.4
Heptachlor Epoxide	ND	0.07	Aroclor-1260	ND	1.4
Endosulfan I	ND	0.07	Aroclor-1262	ND	1.4
4,4'-DDE	ND	0.14			
Dieldrin	ND	0.14			
Endrin	ND	0.14			
4,4'-DDD	ND	0.14			
Endosulfan II	ND	0.14			
4,4'-DDT	ND	0.14			
Endrin Aldehyde	ND	0.14			
Endosulfan Sulfate	ND	0.14			
Methoxychlor	ND	0.7			
Chlordane	ND	0.7			
Toxaphene	ND	7			

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

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

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



Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-040
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/06/94
 Date Analyzed: 01/08/94
 Extraction Method: 3510
 Extraction Material: Methylene Chloride / Hexane
 Dilution Factor: 1.2

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Water
 Sample ID: B25C1-W

EPA Method 8080

ANALYTE	Results, ug/l	DLR, ug/l	ANALYTE	Results, ug/l	DLR, ug/l
Alpha-BHC	ND	0.06	Aroclor-1018	ND	1.2
Gamma-BHC (Lindane)	ND	0.06	Aroclor-1221	ND	2.4
Beta-BHC	ND	0.06	Aroclor-1232	ND	1.2
Heptachlor	ND	0.06	Aroclor-1242	ND	1.2
Delta-BHC	ND	0.06	Aroclor-1248	ND	1.2
Aldrin	ND	0.06	Aroclor-1254	ND	1.2
Heptachlor Epoxide	ND	0.06	Aroclor-1260	ND	1.2
Endosulfan I	ND	0.06	Aroclor-1262	ND	1.2
4,4'-DDE	ND	0.12			
Dieldrin	ND	0.12			
Endrin	ND	0.12			
4,4'-DDD	ND	0.12			
Endosulfan II	ND	0.12			
4,4'-DDT	ND	0.12			
Endrin Aldehyde	ND	0.12			
Endosulfan Sulfate	ND	0.12			
Methoxychlor	ND	0.6			
Chlordane	ND	0.6			
Toxaphene	ND	6			

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

Reviewed/Approved By:



Chris Duncan
 Assistant Laboratory Director

Date:

1/17/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-039
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/06/94
 Date Analyzed: 01/08-10/94
 Extraction Method: 3510
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1.4

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Water
 Sample ID: B24C1-W

EPA Method 8080

ANALYTE	Results, ug/l	DLR, ug/l	ANALYTE	Results, ug/l	DLR, ug/l
Alpha-BHC	ND	0.07	Aroclor-1016	ND	1.4
Gamma-BHC (Lindane)	ND	0.07	Aroclor-1221	ND	2.8
Beta-BHC	ND	0.07	Aroclor-1232	ND	1.4
Heptachlor	ND	0.07	Aroclor-1242	ND	1.4
Delta-BHC	ND	0.07	Aroclor-1248	ND	1.4
Aldrin	ND	0.07	Aroclor-1254	ND	1.4
Heptachlor Epoxide	ND	0.07	Aroclor-1260	ND	1.4
Endosulfan I	ND	0.07	Aroclor-1262	ND	1.4
4,4'-DDE	ND	0.14			
Dieldrin	ND	0.14			
Endrin	ND	0.14			
4,4'-DDD	ND	0.14			
Endosulfan II	ND	0.14			
4,4'-DDT	ND	0.14			
Endrin Aldehyde	ND	0.14			
Endosulfan Sulfate	ND	0.14			
Methoxychlor	ND	0.7			
Chlordane	ND	0.7			
Toxaphene	ND	7			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/18/94

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

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell

Lab No.: 940104-040
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Extracted: 01/06/94
 Date Analyzed: 01/08/94
 Extraction Method: 3510
 Extraction Material: Methylene Chloride /
 Hexane
 Dilution Factor: 1.2

Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. # 04-04343K-01
 Matrix: Water
 Sample ID: B25C1-W

EPA Method 8080

ANALYTE	Results, ug/l	DLR, ug/l	ANALYTE	Results, ug/l	DLR, ug/l
Alpha-BHC	ND	0.06	Aroclor-1016	ND	1.2
Gamma-BHC (Lindane)	ND	0.06	Aroclor-1221	ND	2.4
Beta-BHC	ND	0.06	Aroclor-1232	ND	1.2
Heptachlor	ND	0.06	Aroclor-1242	ND	1.2
Delta-BHC	ND	0.06	Aroclor-1248	ND	1.2
Aldrin	ND	0.06	Aroclor-1254	ND	1.2
Heptachlor Epoxide	ND	0.06	Aroclor-1260	ND	1.2
Endosulfan I	ND	0.06	Aroclor-1262	ND	1.2
4,4'-DDE	ND	0.12			
Dieldrin	ND	0.12			
Endrin	ND	0.12			
4,4'-DDD	ND	0.12			
Endosulfan II	ND	0.12			
4,4'-DDT	ND	0.12			
Endrin Aldehyde	ND	0.12			
Endosulfan Sulfate	ND	0.12			
Methoxychlor	ND	0.6			
Chlordane	ND	0.6			
Toxaphene	ND	6			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor

Reviewed/Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/18/94

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


Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell
 Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Water
 Sample I.D.: B24C1 W

Lab ID No.: 940104-039 Dup
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/14-15/94

SPL VOL	100.0
FINAL VOL	50
Dilution	1

CAC Metals Results, in mg/l				
Analyte	EPA Method *	MDL	DLR	RESULTS
Antimony	200.7	0.30	0.23	0.75
Arsenic	200.7	0.30	0.001	0.001
Barium	200.7	0.10	0.40	ND
Beryllium	200.7	0.10	0.02	ND
Cadmium	200.7	0.10	0.04	0.08
Chromium, T	200.7	0.10	0.10	0.20
Cobalt	200.7	0.10	0.06	0.59
Copper	200.7	0.10	0.03	0.08
Lead	200.7	0.30	0.06	0.27
Mercury **	245.1	0.01	0.002	ND
Molybdenum	200.7	0.30	0.16	0.22
Nickel	200.7	0.10	0.08	0.61
Selenium	200.7	0.30	0.001	0.002
Silver	200.7	0.10	0.04	0.08
Thallium	200.7	0.30	0.24	0.76
Vanadium	200.7	0.10	0.50	ND
Zinc	200.7	0.10	0.06	ND

ND = Not detected. Below indicated limit of detection.
 ** = Digested on 01/07/94, Analyzed on 01/08/94
 * = Analysis done by AAS

Reviewed and Approved By: 
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94

Client: Apex Environmental Recovery, Inc.
 Address: 5772 Bolsa Avenue, Suite 230
 Huntington Beach, CA 92649
 Attn: Ms. Jane Campbell
 Project: Bay Bridge 153 DT Oakland, CA
 Caltrans T.O. #: 04-04343K-01
 Matrix: Water
 Sample I.D.: B24C1 W

Lab ID No.: 940104-039
 Date Sampled: 12/30/93
 Date Received: 01/04/94
 Date Digested: 01/06/94
 Date Analyzed: 01/14-15/94

SPL VOL	100.0
FINAL VOL	50
Dilution	1

CAC Metals
Results in mg/l

Analyte	EPA Method *	MDL	DLR	RESULTS
Antimony	200.7	0.30	0.23	0.74
Arsenic	200.7	0.30	0.001	0.001
Barium	200.7	0.10	0.40	ND
Beryllium	200.7	0.10	0.02	ND
Cadmium	200.7	0.10	0.04	0.09
Chromium, T	200.7	0.10	0.10	0.21
Cobalt	200.7	0.10	0.06	0.57
Copper	200.7	0.10	0.03	0.08
Lead	200.7	0.30	0.06	0.30
Mercury **	245.1	0.01	0.002	ND
Molybdenum	200.7	0.30	0.16	0.26
Nickel	200.7	0.10	0.08	0.59
Selenium	200.7	0.30	0.001	0.002
Silver	200.7	0.10	0.04	0.09
Thallium	200.7	0.30	0.24	0.75
Vanadium	200.7	0.10	0.50	ND
Zinc	200.7	0.10	0.06	ND

ND = Not detected. Below indicated limit of detection.
 ** = Digested on 01/07/94, Analyzed on 01/08/94
 * = Analysis done by AAS

Reviewed and Approved By: Chris Duncan
 Chris Duncan
 Assistant Laboratory Director

Date: 1/17/94