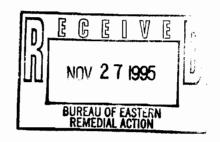


301 W. Lancaster Avenue Reading, PA 19607 Telephone (610) 777-8200 Facsimile (610) 777-8430

November 22, 1995

Mr. Akhil Verma, OSC
ERRD-RAB
U. S. Environmental Protection Agency
Building 209
2890 Woodbridge Avenue
Edison, New Jersey 08837



Subject:

Dry well remediation at the Anchor Chemical site, 500 West John Street,

Hicksville, Nassau County, New York.

Dear Mr. Verma:

Dry well remediation activities conducted at the above referenced site on September 29 and 30, 1995 resulted in the generation of approximately 24 cubic yards of sediment. This sediment has been containerized on site since completion of the remedial activities. Waste characterization analyses conducted on samples submitted to Lancaster Laboratories, Inc. of Leola, Pennsylvania, indicate that the sediment is not hazardous. A summary of parameters detected is provided in Table 1 of Attachment A and copies of the laboratory analytical data sheets are provided in Attachment B.

Review of Table 1 shows that there are no parameters of concern in this sediment. Please be advised that Apex intends to dispose of this material at Soil Safe Incorporated (MDN0000000004) located at 4600 East Fayette Street, Baltimore, Maryland. Soil Safe will recycle the material using stabilization/solidification (method T39) to create soil cement. The material will be transported to Soil Safe by National Waste Disposal Corporation (NY0000380923) located at 2131 Pond Road, Ronkonkoma, New York. Additionally, the sediment in the roll-off containers has settled out of suspension, creating a layer of water on top of the sediment. Apex estimates that approximately 50 percent of the material contained in the roll-offs (i.e. approximately 2,500 gallons) is water. As the presence of this water creates a transportation hazard, A.B. Oil (NYD987023371), 1699 Ocean Avenue, Bohemia, New York will be utilized to vacuum the water out of the dumpsters and transport it to Paradise Heating Oil, Inc. (NY0000041830), located on Quimby Street, P.O. Box 687, Ossining, New York, for recycling by atmospheric vacuum thermal distillation.

In the event that any of the above references companies cannot be utilized, the following alternative companies may be contracted:

Water Transporter:

Able Environmental 1699 Ocean Avenue Bohemia, NY 11716 EPA ID #: NYR000003582

Water Disposal Facility:

New York Oil Recovery

94 Hausman Street

Brooklyn, NY

EPA ID #: NYD981141872

Disposal Method: Filtration and Blending

Should you have any questions regarding this information, please feel free to contact Ms. Kelly Lee Kinkaid of my staff, or me, at (610) 777-8200.

Sincerely,

Apex Environmental, Inc.

James F. Mattern Regional Manager

#### **ATTACHMENTS**

cc:

T. Taccone, USEPA

M. O'Toole, NYSDEC

Maryland Department of the Environment

J. O'Brien, Bogut and O'Brien

P. Shatzkin, Shatzkin & Furman L.L.P.

#### ATTACHMENT A

Summary of Laboratory Results

TABLE 1 Summary of Parameters Detected In the Dry Well Waste Composite Sample Anchor Chemical Site Hicksville, New York				
Parameter	Sediment Composite Sample	Hazard Classification Limit		
CHARACTERISTIC WASTE PARAMETERS				
pН	7.09	< 2 or > 12.5		
INORGANIC PARAMETERS AS ANALYZED BY TCLP (reported in mg/l)				
Aluminum	0.76	not listed		
Barium	1.32	100 mg/l		
Cadmium	0.034	1.0 mg/l		
Calcium	4.75	not listed		
Copper	.101	not listed		
Lead*	0.10	5.0 mg/l		
Magnesium	14.7	not listed		
Manganese	0.877	not listed		
Nickel	0.081	not listed		
Potassium	1.98	not listed		
Sodium	1,420	not listed		
Zinc	10.5	not listed		
Chromium*	< 0.03	5.0 mg/l		
VOLATILE OR	GANIC PARAMETERS AS ANALYZI	ED BY TCLP (in ug/l)		
1,1-Dichloroethane	6	not listed		
2-Butanone	27	not listed		
1,1,1-Trichloroethane	14	not listed		
Toluene	14	not listed		
Ethylbenzene	6	not listed		
Xylene (total)	91	not listed		
OTHER	PARAMETERS (concentration reported	as dry weight)		
Petroleum Hydrocarbons	9,300 mg/kg	not listed		

mg/l = milligram per liter

NOTE: NO SEMI-VOLATILES, PESTICIDES, HERBICIDES, OR PCBS AS ANALYZED BY TCLP WERE DETECTED IN THIS SAMPLE.

ug/l = microgram per liter mg/kg = milligram per kilogram

<sup>\* =</sup> This parameter are included in Table 1 as they are target parameters for the site.

#### ATTACHMENT B

Laboratory Analytical Data Sheets

## Analysis Report



Page: 1 of 1

2393132 LLI Sample No. SW

Collected: 10/ 3/95

Submitted: 10/4/95 Reported: 10/23/95

Discard: 11/ 7/95

Stockpile DW Composite Soil Sample Anchor Chemical Job #951.034

Account No: 07113 Apex Environmental, Inc. 301 W Lancaster Avenue

Shillington, PA 19607-2415

P.O. 951.034 Rel.

AS RECEIVED

DRY WEIGHT LIMIT OF LIMIT OF CAT RESULTS ANALYSIS NAME QUANTITATION UNITS RESULTS QUANTITATION NO. < 100. < 50. Cyanide (Reactivity) 1123 mg/kg ₹ 70. 50. 70. 1503 Total Organic Halogen mg/kg Total organic halogen (TOX) is a surrogate measurement used to estimate the total quantity of halogenated organic material in a sample. Duplicate determinations are required for the method, in order to evaluate random bias. The results of both determinations for this sample were less than the Limit of Quantitation. 8.7 25.9 12. 5895 0.3 Total Cyanide (solid) mq/kg Moisture 0.5 % by wt. 0111

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. 7.09 0394 0.01

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml.

of deionized water) after being tumbled for 30 min.

See Below 0496 Corrosivity See Below Corrosivity:

The pH of a 1:1 slurry (with defonized water) was 7.09 indicating that the waste is not corrosive. A waste is corrosive if it exhibits a pH equal to or less than 2

or equal to or greater than 12.5. See Below

0542 Ignitability The sample did not spontaneously ignite when exposed to air or water. The sample did not ignite by friction. The sample vapors did not ignite when exposed to a flame using a

closed cup apparatus. Sec Below 1121 Reactivity See Below Reactivity:

The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of hydrogen cyanide exceeding 250 mg/kg or hydrogen sulfide exceeding 500 mg/kg. These interim threshold limits were established by the Solid Waste Branch of EPA, July, 1992. These results

do not reflect total cyanide or total sulfide. Sulfide (Reactivity) 50. 1122 < 50. ma/ka

6,900. Petroleum Hydrocarbons 1562 600. mg/kg 1820 Paint Filter Test See Below See Below

This sample exhibits no free liquid according to SW-846, method 9095.

1 COPY TO Apex Environmental, Inc.

ATTN: Mr. James Mattern

Questions? Contact your Client Services Representative at (717) 656-2300 Wendy K. Park 05:28:55 D 0001 122004 486432

558 55.00 00042500 ASROOD

Respectfully Submitted Ramona V. Layman, Group Leader ICP Metals/Leachates

9,300.

800.





## **Analysis Report**



Page: 1 of 6

LLI Sample No. TL 2393183

Collected: 10/ 3/95

Submitted: 10/ 4/95 Reported: 10/23/95

Discard: 11/ 7/95

Stockpile DW Composite Soil Sample TCLP NON-VOLATILE EXTRACTION Anchor Chemical Job #951.034 Account No: 07113 Apex Environmental, Inc. 301 W Lancaster Avenue Shillington, PA 19607-2415 P.O. 951.034 Rel.

AS RECEIVED

CAT		6 \$600 Pk 10 4 Pk 10 mg	LIMIT OF	
NO.	ANALYSIS NAME	RESULTS	MOITATITHAUP	UNITS
1335	Arsenic	< 0.10	0.10	mg/l
1336	Selenium	< 0.20	0.20	mg/!
1722	Thallium	< 0.50	0.50	mg/!
1743	Aluminum	0.76	0.20	mg/l
1744	Antimony	< 0.20	0.20	mg/l
1746	Barium	1.32	0.10	mg/l
1749	Cadmium	0,034	0.010	mg/l
1750	Calcium	94,0	0.20	mg∕l
1751	Chromium	€ 0.030	0.030	mg/l
1752	Cobalt	< 0.050	0.050	mg∕l
1753	Copper	0.101	0.025	mg/l
1755	Lead	0.96	0.10	mg/l
1757	Magnesium	14.7	0.10	mg/l
1758	Manganese	0.877	0.010	mg/l
1761	Nickel	0.081	0.050	mg/l
1762	Potassium	1.98	0.50	mg/l
176ó	Silver	< 0.020	0.020	mg/t
1767	Sodium	1,420.	4.0	mg/l
1771	Vanadium	< 0.015	0.015	mg/l
1772	Zinc	10.5	0.025	mg/l
0259	Mercury	< 0.00020	0.00020	mg/l

The metal analyses were performed on a non-volatile leachate prepared according to the procedure specified in the June 29, 1990 Federal Register. A sample is considered to have failed the Toxicity Characteristic (TC) test and is considered a hazardous waste if any of the metal concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic 5.0 Cadmium 1.0 Lead 5.0 Selenium 1.0 Barium 100.0 Chromium 5.0 Mercury 0.2 Silver 5.0

The limits are published in March 29, 1990 Federal Register, pp. 11845-6.
9001 Chlordane £2. 2. ug/l

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

 9002
 3 or 4-Methylphenol
 < 10.</td>
 ug/l

 9003
 Pyridine
 < 10.</td>
 10.
 ug/l

 0937
 TCL Pesticides in Waters
 See Page 3

1 COPY TO Apex Environmental, Inc.

ATTN: Mr. James Mattern

Questions? Contact your Client Services Representative Wendy K. Park at (717) 656-2300 05:29:03 D 0001 3 122004 486432 558 110.00 00131000 ASR000

Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs



2425 New Holland Pike P.O. Box 12425 Lancaster, PA 17605-2425 717-656-2300 FAX 717-656-2681

Lancaster Laboratories



## Analysis Repo



Page: 2 of 6

2393183 LLI Sample No. TL Collected: 10/ 3/95

Submitted: 10/4/95 Reported: 10/23/95

Discard: 11/ 7/95

Stockpile DW Composite Soil Sample TCLP NON-VOLATILE EXTRACTION Anchor Chemical Job #951.034

Account No: 07113 Apex Environmental, Inc. 301 W Lancaster Avenue Shillington, PA 19607-2415 P.O. 951.034 Rel.

AS RECEIVED

CAT NC.

ANALYSIS NAME

RESULTS

LIMIT OF QUANTITATION

UNITS

TCLP Herbicides

0952 ICLP Herbicides

4678 TCL SW846 Semivolatiles/Waters 4679 TCL SW846 Semivolatiles/Waters

See Page 4

See Page 5 See Page 6

Questions? Contact your Client Services Representative Wendy K. Park at (717) 656-2300

MEMBER

Lancaster Laboratories 2425 New Holland Pike P.O. Box 12425 Lancaster, PA 17605-2425 717-656-2300 FAX 717-656-2681

Respectfully Submitted Ramona V. Layman, Group Leader ICP Metals/Leachates



## **Analysis Report**



Page: 3 of 6

LLI Sample No. TL 2393183

Collected: 10/ 3/95

Submitted: 10/4/95 Reported: 10/23/95

Discard: 11/ 7/95

Stockpile DW Composite Soil Sample TCLP NON-VOLATILE EXTRACTION Anchor Chemical Job #951.034 Account No: 07113

Apex Environmental, Inc. 301 W Lancaster Avenue Shillington, PA 19607-2415 P.O. 951.034 Rel.

AS RECEIVED

CAT LIMIT OF
NO. ANALYSIS NAME RESULTS QUANTITATION UNITS

TCL Pesticides in Waters

		nilovišusennikije	2 25	
1600	Alpha BHC	< 0.05	0.05	ug/l
1602	Gamma BHC - Lindane	< 0.05	0.05	ug/!
1604	Heptachlor	< 0.05	0.05	ug/l
1606	Heptachlor Epoxide	< 0.05	0.05	ug/l
1610	Dieldrin	< 0.05	0.05	ug/l
1607	DDE	< 0.05	0.05	ug/l
1611	Endrin	< 0.05	0.05	ug/l
1860	Methoxychlor	< 0.3	0.3	ug/l
1361	Alpha Chlordane	< 0.05	0.05	ug/l
1362	Gamma Chlordane	< 0.05	0.05	ug/l
1613	Toxaphene	< 20.	20.	ug/l
1619	PCB-1016	< 5,	5.	ug/l
1620	PCB-1221	< 5.	5.	ug/l
1621	PCB-1232	< 5.	5.	ug/l
1622	PC3-1242	≤ 5.	5.	ug/≒
1623	PCB-1248	< 5.	5.	ug/l
1624	PCB-1254	∢ 5.	5.	ug/l
1626	PCB-1260	< 5.	5.	ug/l

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative Wendy K. Park at (717) 656-2300

Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs







Page: 4 of 6

2393183 LLI Sample No. TL Collected: 10/ 3/95

Submitted: 10/4/95 Reported: 10/23/95

Discard: 11/ 7/95

Stockpile DW Composite Soil Sample TCLP NON-VOLATILE EXTRACTION Anchor Chemical Job #951.034

Account No: 07113

Apex Environmental, Inc. 301 W Lancaster Avenue Shillington, PA 19607-2415 P.O. 951.034 Rel.

AS RECEIVED

CAT

ANALYSIS NAME NO.

LIMIT OF QUANTITATION

RESULTS

UNITS

TCLP Herbicides

1979 2,4-D 1980

2,4,5-TP

< 0.1 < 0.1

0.1 mg/l 0.1 mg/l

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample extraction.

> Questions? Contact your Client Services Representative at (717) 656-2300 Wendy K. Park

> > Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs





# Analysis Repo



Page: 5 of 6

2393183 LLI Sample No. TL Collected: 10/ 3/95

Submitted: 10/4/95 Reported: 10/23/95

Discard: 11/ 7/95

Stockpile DW Composite Soil Sample TCLP NON-VOLATILE EXTRACTION Anchor Chemical Job #951.034

Account No: 07113 Apex Environmental, Inc. 301 W Lancaster Avenue Shillington, PA 19607-2415 P.O. 951.034 Rel.

		AS REC	EIVED	
NO.	ANALYSIS NAME	RESULTS	LIMIT OF QUANTITATION	UNITS
TCL SV	4846 Semivolatiles/Waters			
3884 4680 3902 3910 3906 3900 3872 3905 3923 3922	1,4-dichlorobenzene 2-methylphenol hexachloroethane nitrobenzene naphthalene hexachlorobutadiene 4-chloro-3-methylphenol 2-methylnaphthalene 2,4,6-trichlorophenol 2,4,5-trichlorophenol	< 10. < 10. < 10. < 10. < 10. < 10. < 10. < 10. < 10. < 10.	10. 10. 10. 10. 10. 10. 10. 10.	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l

Questions? Contact your Client Services Representative Wendy K. Park at (717) 656-2300



Respectfully Submitted Jon S. Kauffman, Ph.D. Manager, Environmental Science





Lancaster Laboratories

# **Analysis Repor**



Page: 6 of 6

2393183 LLI Sample No. TL Collected: 10/ 3/95

Submitted: 10/ 4/95 Reported: 10/23/95

Discard: 11/ 7/95

Stockpile DW Composite Soil Sample TCLP NON-VOLATILE EXTRACTION Anchor Chemical Job #951.034

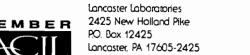
Account No: 07113

Apex Environmental, Inc. 301 W Lancaster Avenue Shillington, PA 19607-2415 P.O. 951.034

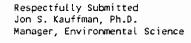
Rel.

		AS REC	EIVED	
CAT NO.	ANALYSIS NAME	RESULTS	LIMIT OF QUANTITATION	UNITS
TCL SW	846 Semivolatiles/Waters			
3894 3899 3916 3917 3859 3880 3897 3919 3870 3860 3868 3876 3861 3861	2,4-dinitrotoluene hexachlorobenzene pentachlorophenol phenanthrene anthracene di-n-butyl phthalate fluoranthene pyrene butyl benzyl phthalate benzo (a) anthracene bis (2-ethylhexyl) phthalate chrysene benzo (b) fluoranthene benzo (k) fluoranthene	<pre> 10,   &lt; 10;   &lt; 25;   &lt; 10;   &lt;</pre>	10. 10. 25. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l
3864 3903	benzo (a) pyrene indeno (1,2,3-cd) pyrene	< 10. < 10.	10. 10.	ug/l ug/l ug/l

Questions? Contact your Client Services Representative Wendy K. Park at (717) 656-2300







# Analysis Report



Page: 1 of 2

LLI Sample No. TL 2393184

Collected: 10/ 3/95

Submitted: 10/4/95 Reported: 10/23/95

Discard: 11/ 7/95

Stockpile DW Composite Soil Sample TCLP ZERO HEADSPACE EXTRACTION Anchor Chemical Job #951.034 Account No: 07113 Apex Environmental, Inc. 301 W Lancaster Avenue Shillington, PA 19607-2415 P.O. 951.034 Rel.

AS RECEIVED

CAT NO.

ANALYSIS NAME

RESULTS

LIMIT OF QUANTITATION

I UNITS

4592 TCL Volatiles by 8240 - Water

See Page 2

1 COPY TO Apex Environmental, Inc.

ATTN: Mr. James Mattern

Questions? Contact your Client Services Representative Wendy K. Park at (717) 656-2300 05:29:31 D 0001 3 122004 486432 558 140.00 00040000 ASR000

ACIL

Respectfully Submitted
Ramona V. Layman, Group Leader
Loncoster Loboratories
1CP Metals/Leachates
2425 New Holland Pike



## Analysis Repo



Page: 2 of 2

2393184 LLI Sample No. TL Collected: 10/ 3/95

Submitted: 10/ 4/95 Reported: 10/23/95

Discard: 11/ 7/95

Stockpile DW Composite Soil Sample TCLP ZERO HEADSPACE EXTRACTION Anchor Chemical Job #951.034

Account No: 07113 Apex Environmental, Inc. 301 W Lancaster Avenue Shillington, PA 19607-2415 P.O. 951.034 Rel.

AS RECEIVED

CAT ANALYSIS NAME NO.

LIMIT OF QUANTITATION

UNITS

TCL Volatiles by 8240 - Water

3492	Vinyl Chloride
3500	1,1-Dichloroethene
3501	1,1-Dichloroethane
3503	Chloroform
3504	1,2-Dichloroethane
0316	2-Butanone
3505	1,1,1-Trichloroethane
3506	Carbon Tetrachloride
3511	Trichloroethene
3515	Benzene
3522	Tetrachloroethene
3524	Toluene
3525	Chiorobenzene
3526	Ethylbenzene

Xylene (total)

\$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 7. 14.	5. 5. 5. 5.	ug/l ug/l ug/l ug/l ug/l ug/l
14, 4,5, 4,5, 4,5, 7,5, 14, 4,3,	5. 5. 5. 5.	ug/l ug/l ug/l ug/l ug/l ug/l
5. 91.	5. 5.	ug/l ug/l

Questions? Contact your Client Services Representative at (717) 656-2300 Wendy K. Park

> Respectfully Submitted Michele McClarin, B.A. Group Leader, GC/MS Volatiles





Aut # 7113

Beroironmental, inc." TELEPHONE: (215) 777-8200 CH

CHAIN OF CUSTODY RECORD

OC 034 ASCHUGARICE	PROJECT MANAGER	(C) (A)	PARAMETERS A LI
SAMPLER(S): (Signature(s))		JANINE WINE	$\mathscr{L}$
		1/2/1/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2	ASSE JOHN
SAMPLE DATE TIME GRAB	STATION / LOCATION	1/2/2/24/24/21/20/20/20/20/20/20/20/20/20/20/20/20/20/	TO AND CONTRACTOR OF THE PROPERTY STREET
Stark p. Bw 10 345 X	8	X	
	**		
	TOTALS		
Relinquished by: ÁSigngfure)  © IP/4/45	by: (Signature)	Relinquished by: (Signature)	10/4/95 & A Signolure)
Zuncha C	Frma Dillman Erm	ma Dillmin	1575 (Printed) K. Gruito
Relinquished by: (Signature)  (S)		* See Wendy PARK	NK.
(Printed)	(Printed)		,
Distribution: WHITE => original (accompanies samples; returned with results) : YELLOW => laboratory capy : PitiK => sampler's copy	osults) : YELLOW => laboralory capy : PitiK => sample	ler's copy	of pages



301 W. Lancaster Avenue Reading, PA 19607 Telephone (610) 777-8200 Facsimile (610) 777-8430

November 22, 1995

Mr. Akhil Verma, OSC ERRD-RAB U. S. Environmental Protection Agency Building 209 2890 Woodbridge Avenue Edison, New Jersey 08837

**Subject**: Dry well remediation at the Anchor Chemical site, 500 West John Street,

Hicksville, Nassau County, New York.

Dear Mr. Verma:

Dry well remediation activities conducted at the above referenced site on September 29 and 30, 1995 resulted in the generation of approximately 24 cubic yards of sediment. This sediment has been containerized on site since completion of the remedial activities. Waste characterization analyses conducted on samples submitted to Lancaster Laboratories, Inc. of Leola, Pennsylvania, indicate that the sediment is not hazardous. A summary of parameters detected is provided in Table 1 of Attachment A and copies of the laboratory analytical data sheets are provided in Attachment B.

In the event that any of the above references companies cannot be utilized, the following alternative companies may be contracted:

Water Transporter:

Able Environmental 1699 Ocean Avenue Bohemia, NY 11716

EPA ID #: NYR000003582

Water Disposal Facility:

New York Oil Recovery

94 Hausman Street

Brooklyn, NY

EPA ID #: NYD981141872

Disposal Method: Filtration and Blending

Should you have any questions regarding this information, please feel free to contact Ms. Kelly Lee Kinkaid of my staff, or me, at (610) 777-8200.

Sincerely,

Apex Environmental, Inc.

James F. Mattern Regional Manager

#### **ATTACHMENTS**

cc:

T. Taccone, USEPA

M. O'Toole, NYSDEC

Maryland Department of the Environment

J. O'Brien, Bogut and O'Brien

P. Shatzkin, Shatzkin & Furman L.L.P.

#### ATTACHMENT A

Summary of Laboratory Results

#### TABLE 1 Summary of Parameters Detected In the Dry Well Waste Composite Sample Anchor Chemical Site Hicksville, New York Hazard Classification Limit **Parameter** Sediment Composite Sample CHARACTERISTIC WASTE PARAMETERS 7.09 < 2 or > 12.5pН INORGANIC PARAMETERS AS ANALYZED BY TCLP (reported in mg/l) Aluminum 0.76 not listed 1.32 100 mg/l Barium 0.034 $1.0 \, \text{mg/l}$ Cadmium not listed 4.75 Calcium .101 not listed Copper 0.10 $5.0 \, \text{mg/l}$ Lead\* 14.7 not listed Magnesium 0.877 not listed Manganese 0.081 not listed Nickel 1.98 not listed Potassium 1,420 not listed Sodium not listed 10.5 Zinc < 0.03 $5.0 \,\mathrm{mg/l}$ Chromium\* VOLATILE ORGANIC PARAMETERS AS ANALYZED BY TCLP (in ug/l) 6 not listed 1.1-Dichloroethane 27 not listed 2-Butanone 14 1.1.1-Trichloroethane not listed 14 not listed Toluene 6 not listed Ethylbenzene 91 not listed Xylene (total) OTHER PARAMETERS (concentration reported as dry weight) not listed 9,300 mg/kg Petroleum Hydrocarbons

mg/l = milligram per liter ug/l = microgram per liter mg/kg = milligram per kilogram

\* = This parameter are included in Table 1 as they are target parameters for the site.

NOTE: NO SEMI-VOLATILES, PESTICIDES, HERBICIDES, OR PCBS AS ANALYZED BY TCLP WERE DETECTED IN THIS SAMPLE.

#### ATTACHMENT B

Laboratory Analytical Data Sheets

Page: 1 of 1

DRY WEIGHT

LIMIT OF

QUANTITATION

70.

0.3

800.

2393132 LLI Sample No. SW

Collected: 10/ 3/95

Submitted: 10/4/95 Reported: 10/23/95

Discard: 11/ 7/95

ANALYSIS NAME

Cyanide (Reactivity)

Total Organic Halogen

CAT NO.

1123

1503

5895

0111

0394

1820

Stockpile DW Composite Soil Sample Anchor Chemical Job #951.034

Account No: 07113

Apex Environmental, Inc. 301 W Lancaster Avenue

Shillington, PA 19607-2415

P.O. 951.034 Rel.

RESULTS

12.

< 70.

AS RECEIVED LIMIT OF

> QUANTITATION UNITS

> > 100. mg/kg

mg/Kg

< 50. Total organic halogen (TOX) is a surrogate measurement used to estimate the total quantity of halogenated organic material in a sample. Duplicate determinations are required for the method, in order to evaluate random bias. The results of both determinations for this sample were less than

the Limit of Quantitation. Total Cyanide (solid)

8.7 25.9 8.7

RESULTS

< 100.

0.2 mg/kg % by wt.

See Below

See Below

0.5

"Moisture" represents the loss in weight of the sample after oven drying at 7.09

103 - 105 degrees Celsius. рΗ

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml.

of deionized water) after being tumbled for 30 min. Corresivity See Below

0496 Corrosivity:

Moisture

The pH of a 1:1 slurry (with deionized water) was 7.09 indicating

that the waste is not corrosive.

A waste is corrosive if it exhibits a pH equal to or less than 2

or equal to or greater than 12.5.

See Below 0542 See Relow Ignitability

The sample did not spontaneously ignite when exposed to air or water. The sample did not ignite by friction.

The sample vapors did not ignite when exposed to a flame using a

closed cup apparatus.

1121 Reactivity

Reactivity:

Sec Belou

The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of hydrogen cyanide exceeding 250 mg/kg or hydrogen sulfide exceeding 500 mg/kg. These interim threshold limits were established by the Solid Waste Branch of EPA, July, 1992. These results do not reflect total cyanide or total sulfide,

1122 Sulfide (Reactivity)

Paint Filter Test

< 50. Petroleum Hydrocarbons 1562

6.9002

50. 600.

mg/kg mg/kg

See Below See Below

This sample exhibits no free liquid according to SW-846, method 9095.

1 COPY TO Apex Environmental, Inc.

ATTN: Mr. James Mattern

Questions? Contact your Client Services Representative at (717) 656-2300 Wendy K. Park 05:28:55 D 0001 3 122004 486432

558 55.00 00042500 ASROOD

Lancaster Laboratories 2425 New Holland Pike

Lancaster, PA 17605-2425 717-656-2300 FAX 717-656-2681

P.O. Box 12425

Respectfully Submitted Ramona V. Layman, Group Leader



See reverse side for explanation of symbols and abbreviations.

ICP Metals/Leachates

9,300.





Page: 1 of 6

LLI Sample No. TL 2393183

Collected: 10/ 3/95

Submitted: 10/ 4/95 Reported: 10/23/95

Discard: 11/ 7/95

Stockpile DW Composite Soil Sample TCLP NON-VOLATILE EXTRACTION Anchor Chemical Job #951.034

Account No: 07113
Abex Environmental, Inc.
301 W Lancaster Avenue
Shillington, PA 19607-2415

P.O. 951.034 Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	LIMIT OF QUANTITATION	UNITS
1335	Arsenic	< 0.10	0.10	mg/l
1336	Selenium	0.20 €	0.20	mg/L
1722	Thallium	< 0.50	0.50	mg/!
1743	Aluminum	0.76	0.20	mg/l
1744	Antimony	< 0.20	0.20	mg/l
1746	Barium	1.32	0.10	mg/l
1749	Cadmium	0.034	0.010	mg/l
1750	Calcium	94.0	0.20	mg/l
1751	Chromium	< 0.030	0.030	mg/l
1752	Cobalt	< 0.050	0.050	mg/l
1753	Copper	0.101	0.025	mg/l
1755	Lead	0.96	0.10	mg/l
1757	Magnesium	14.7	0.10	mg/l
1758	Manganese	0.877	0.010	mg/l
1761	Nickel	0.081	0.050	mg/l
1762	Potassium	1.98	0.50	mg/l
1766	Silver	< 0.020	0.020	mg/!
1767	Sodium	1,420.	4.0	mg/l
1771	Vanadium	< 0.015	0.015	mg/L
1772	Zinc	10.5	0.025	mg/l
0259	Mercury	< 0.00020	0.00020	ma/1

The metal analyses were performed on a non-volatile leachate prepared according to the procedure specified in the June 29, 1990 Federal Register. A sample is considered to have failed the Toxicity Characteristic (TC) test and is considered a hazardous waste if any of the metal concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic 5.0 Cadmium 1.0 Lead 5.0 Selenium 1.0 Barium 100.0 Chromium 5.0 Mercury 0.2 Silver 5.0

| limits obtainable. | 9002 | 3 or 4-Methylphenol | < 10. | 10. | ug/l | 9003 | Pyridine | < 10. | 10. | ug/l | 9037 | TCL Pesticides in Waters | See Page | 3

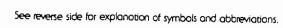
1 COPY TO Apex Environmental, Inc.

ATTN: Mr. James Mattern

Questions? Contact your Client Services Representative Wendy K. Park at (717) 656-2300 05:29:03 D 0001 3 122004 486432 558 110.00 00131000 ASR000

ACIL

Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs







Page: 2 of 6

2393183 LLI Sample No. TL

Collected: 10/ 3/95

Submitted: 10/4/95 Reported: 10/23/95

Discard: 11/ 7/95

Stockpile DW Composite Soil Sample TCLP NON-VOLATILE EXTRACTION Anchor Chemical Job #951.034

Account No: 07113

Apex Environmental, Inc. 301 W Lancaster Avenue Shillington, PA 19607-2415 P.O. 951.034

Rel.

AS RECEIVED

ÇAT

ANALYSIS NAME NO.

RESULTS

LIMIT OF QUANTITATION

UNITS

TCLP Herbicides

0952 TCLP Herbicides

TCL SW846 Semivolatiles/Waters 4678 4679 TCL SW846 Semivolatiles/Waters See Page

See Page 5

See Page

Questions? Contact your Client Services Representative Wendy K. Park at (717) 656-2300

MEMBER

Respectfully Submitted Ramona V. Layman, Group Leader ICP Metals/Leachates



#### Analysis Report



Page: 3 of 6

LLI Sample No. TL 2393183

Collected: 10/ 3/95

Submitted: 10/4/95 Reported: 10/23/95

Discard: 11/ 7/95

Stockpile DW Composite Soil Sample TCLP NON-VOLATILE EXTRACTION Anchor Chemical Job #951.034 Account No: 07113

Apex Environmental, Inc. 301 W Lancaster Avenue

Shillington, PA 19607-2415

P.O. 951.034

Ret.

AS RECEIVED

		AS KE'S	EIVED	
CAT NO.	ANALYSIS NAME	RESULTS	LIMIT OF QUANTITATION	UNITS
TCL Pe	sticides in Waters			
1600	Alpha BHC	######################################	0.05	ug/l
1602	Gamma BHC - Lindane	< 0.05	0.05	ug/l
1604	Heptachlor	< 0.05	0.05	ug/l
1606	Heptachlor Epoxide	< 0.05	0.05	ug/l
1610	Dieldrin	< 0.05	0.05	ug/l
1607	DDE	× 0.05	0.05	ug/l
1611	Endrin	< 0.05	0.05	ug/l
		< 0.3	0.3	ug/t ug/t
1860	Methoxychlor	200000000000		-
1361	Alpha Chlordane	< 0.05	0.05	ug/l
1362	Gamma Chlordane	< 0.05	0.05	ug/l
1613	Toxaphene	<b>₹ 20.</b>	20.	ug/l
1619	PCB-1016	<b>₹5</b> .	5.	ug/l
1620	PCB-1221	< 5.	5.	ug/l
1621	PCB-1232	< 5.	5.	ug/l
1622	PCS-1242	< 5.	5.	ug/!
1623	PCB-1248	x 5.	5.	ug/l
1624	PCB-1254	< 5.	5.	ug/l
1626	PCB-1260	< 5.	5.	ug/l
.0.00		######################################		3,

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative Wendy K. Park at (717) 656-2300

Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs







Page: 4 of 6

2393183 LLI Sample No. TL

Collected: 10/ 3/95

Submitted: 10/4/95 Reported: 10/23/95

Discard: 11/ 7/95

Stockpile DW Composite Soil Sample TCLP NON-VOLATILE EXTRACTION Anchor Chemical Job #951.034

Account No: 07113 Apex Environmental, Inc.

301 W Lancaster Avenue Shillington, PA 19607-2415 P.O. 951.034

Rei.

AS RECEIVED

CAT

ANALYSIS NAME NO.

RESULTS

LIMIT OF QUANTITATION

UNITS

TCLP Herbicides

1979 2,4-0 1980

< 0.1 < 0.1 2,4,5-TP

0.1 mg/l

0.1 mg/l

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample extraction.

> Questions? Contact your Client Services Representative Wendy K. Park at (717) 656-2300

Lancaster Laboratories 2425 New Holland Pike MEMBER P.O. Box 12425 Lancaster, PA 17605-2425 717-656-2300 FAX 717-656-2681 Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs





Page: 5 of 6

2393183 LLI Sample No. TL

Collected: 10/ 3/95

Submitted: 10/4/95 Reported: 10/23/95

Discard: 11/ 7/95

3922 2,4,5-trichlorophenol

Stockpile DW Composite Soil Sample TCLP NON-VOLATILE EXTRACTION Anchor Chemical Job #951.034

Account No: 07113 Apex Environmental, Inc.

301 W Lancaster Avenue Shillington, PA 19607-2415

10.

ug/l

P.O. 951.034

Rel.

AS RECEIVED

NO.	ANALYSIS NAME	RESULTS	LIMIT OF QUANTITATION	UNITS
TCL SH	4846 Semivolatiles/Waters			
3884 4680 3902 3910 3906 3900 3872 3905 3923	1,4-dichlorobenzene 2-methylphenol hexachloroethane nitrobenzene naphthalene hexachlorobutadiene 4-chloro-3-methylphenol 2-methylnaphthalene 2,4,6-trichlorophenol	<pre></pre>	10. 10. 10. 10. 10. 10. 10.	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l
7000	015.11	1000 / 000 000 000 000 a / 1000 000 000 000 000 000 000 000 000	4.2	

< 10.

Questions? Contact your Client Services Representative at (717) 656-2300 Wendy K. Park

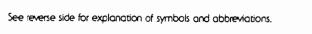
> Lancaster Laboratories 2425 New Holland Pike

Lancaster, PA 17605-2425 717-656-2300 FAX 717-656-2681

PO. Box 12425



Respectfully Submitted Jon S. Kauffman, Ph.D. Manager, Environmental Science





#### Analysis Repor



Page: 6 of 6

LLI Sample No. TL 2393183

Collected: 10/ 3/95

Submitted: 10/4/95 Reported: 10/23/95

Discard: 11/ 7/95

Stockpile DW Composite Soil Sample TCLP NON-VOLATILE EXTRACTION Anchor Chemical Job #951.034 Account No: 07113 Apex Environmental, Inc. 301 W Lancaster Avenue Shillington, PA 19607-2415 P.O. 951.034 Rel.

#### AS RECEIVED

		110		
CAT NO.	ANALYSIS NAME	RESULTS	LIMIT OF QUANTITATION	UNITS
TCL SW	1846 Semivolatiles/Waters			
3894 3899 3916 3917 3859 3880 3897 3919 3870 3860 3863 3864 3861 3862 3864	2,4-dinitrotoluene hexachlorobenzene pentachlorophenol phenanthrene anthracene di-n-butyl phthalate fluoranthene pyrene butyl benzyl phthalate benzo (a) anthracene bis (2-ethylhexyl) phthalate chrysene benzo (b) fluoranthene benzo (k) fluoranthene benzo (a) pyrene	<pre></pre>	10. 10. 25. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l
3903	indeno (1,2,3-cd) pyrene	< 10.	10.	ug/l

Questions? Contact your Client Services Representative Wendy K. Park at (717) 656-2300



Respectfully Submitted Jon S. Kauffman, Ph.D. Manager, Environmental Science





Page: 1 of 2

2393184 LLI Sample No. TL

Collected: 10/ 3/95

Submitted: 10/4/95 Reported: 10/23/95

Discard: 11/ 7/95

Stockpile DW Composite Soil Sample TCLP ZERO HEADSPACE EXTRACTION Anchor Chemical Job #951.034

Account No: 07113 Apex Environmental, Inc. 301 W Lancaster Avenue Shillington, PA 19607-2415 P.O. 951.034 Rel.

AS RECEIVED

CAT NO.

ANALYSIS NAME

4592 TCL Volatiles by 8240 - Water

LIMIT OF RESULTS

UNITS QUANTITATION

See Page 2

1 COPY TO Apex Environmental, Inc.

ATTN: Mr. James Mattern

Questions? Contact your Client Services Representative at (717) 656-2300 Wendy K. Park 3 05:29:31 D 0001 122004 486432 558 140.00 00040000 ASR000

MEMBER

Respectfully Submitted Ramona V. Layman, Group Leader ICP Metals/Leachates







Page: 2 of 2

LLI Sample No. TL collected: 10/3/95 2393184

Submitted: 10/ 4/95 Reported: 10/23/95

Discard: 11/ 7/95

Stockpile DW Composite Soil Sample TCLP ZERO HEADSPACE EXTRACTION Anchor Chemical Job #951.034

Account No: 07113 Apex Environmental, Inc. 301 W Lancaster Avenue Shillington, PA 19607-2415 P.O. 951.034 Rel.

		AS REC	EIVED	
CAT NO.	ANALYSIS NAME	RESULTS	LIMIT OF QUANTITATION	UNITS
TCL V	platiles by 8240 - Water			
3492 3500 3501 3503 3504 0316 3505 3506 3511 3515 3522 3524 3525 3526 3529	Vinyl Chloride 1,1-Dichloroethene 1,1-Dichloroethane Chloroform 1,2-Dichloroethane 2-Butanone 1,1,1-Trichloroethane Carbon Tetrachloride Trichloroethene Benzene Tetrachloroethene Toluene Chlorobenzene Ethylbenzene Xylene (total)	<pre></pre>	5. 5. 5. 5. 5. 5. 5. 5.	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l

Questions? Contact your Client Services Representative Wendy K. Park at (717) 656-2300



Respectfully Submitted Michele McClarin, B.A. Group Leader, GC/MS Volatiles





Aud # 7113

Dex 301 WEST LANCASTER AVENUE READING, PENNSYL VANIA, 19607 environmental, inc." FELEPHONE: (215) 777–8200

# CHAIN OF CUSTODY RECORD

/ cut in culture, time:			
051.034 Archiallenical	James Mattern		PARAMETERS  TURN-AROUND TIME
SAMPLER(S): (Signature(s))	(Printed) Mentheruzh	JAN 100 10	JOSE SEE SEE SEE SEE SEE
SAMPLE DATE TIME COMP.	PRES. STATION / LOCATION	12/20/20/20/20/20/20/20/20/20/20/20/20/20	CALLOS REMARKS
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	ALS		
Relinquished by (Signglure)  (1)	Received by: (Signature)	Relinquished by: (Signature) Date/	Dale/Time Received by: (Signature)
Wark S. Zamich D'100	(Printed) Etma Dillynan	Frinted) Erma Dillmin	15:15 (Printed) K. Graito
Relinquished by: (Signature) Date/Time	Received by: (Signature)	Remorks See Wendy (A)	ıΚ
(Printed)	(Printed)		
Distribution: WHITE => original (accompanies samples; returned with results) : YELLOW => laboratory copy : PINK => sampler's copy	ed with results) : YELLOW => laboratory copy : PINK =	> sampler's copy	of