


LI Sample No. TL 2795998

Collected: 10/ 3/97 at 13:45 by SN

Submitted: 10/ 3/97 Reported: 10/24/97

Discard: 11/24/97

CWK-BD-49 Soil Sample

TCLP NON-VOLATILE EXTRACTION

Job #6015-08-06

Chambers Works Soil Reuse

Account No: 07032

DERS/DuPont Env Remed Services

Barley Mill Plaza, Bldg. 27

Routes 141 & 48

Wilmington DE 19805

P.O. LB10-62248

Rel. L146

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
1335	Arsenic	N.D.	0.029	mg/l
1336	Selenium	N.D.	0.048	mg/l
1746	Barium	0.77	0.0028	mg/l
The matrix spike & matrix spike duplicate percent recoveries were out of specification for barium. The recovery of the post digest spike performed on the background sample was 56%.				
1749	Cadmium	0.0095 J	0.0031	mg/l
The matrix spike & matrix spike duplicate percent recoveries were out of specification for cadmium. The recovery of the post digest spike performed on the background sample was 96%.				
1751	Chromium	N.D.	0.0066	mg/l
1755	Lead	27.2	0.021	mg/l
The matrix spike & matrix spike duplicate percent recoveries were out of specification for lead. The recovery of the post digest spike performed on the background sample was 97%.				
1766	Silver	N.D.	0.0047	mg/l
The matrix spike & matrix spike duplicate percent recoveries were out of specification for silver. The recovery of the post digest spike performed on the background sample was 97%.				
0259	Mercury	0.000030J	0.00002	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.

0949 TCLP Acid Base/Neutrals

3324	pyridine	N.D.	0.0020	mg/l
3325	1,4-dichlorobenzene	N.D.	0.0020	mg/l
3326	2-methylphenol	N.D.	0.0020	mg/l
3327	3- and 4-methylphenol	N.D.	0.0060	mg/l
3328	hexachloroethane	N.D.	0.0020	mg/l

 1 COPY TO DERS/DuPont Env Remed Services ATTN: Ms. Jill Meuser
 1 COPY TO DERS/DuPont Env Remed Service ATTN: Mr. Tom Morgan

 Questions? Contact your Client Services Representative
 Nancy Bornholm at (717) 656-2300
 07:53:53 D 0002 3 130950 585617
 320 0.00 00048300 ASR000

 Lancaster Laboratories
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax 717-656-2681

See reverse side for explanation of symbols and abbreviations.

2216 Rev 8/4/97


N32945

DUP050464920

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib > 5 um/ml	fibers greater than 5 microns in length per ml
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard addition (MSA) used for calculation
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
P	Concentration difference between primary and confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA <0.995
X,Y,Z	Defined in case narrative		

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.