February 16, 1989
P8341.26.01
T. 298

Chemical Waste Management, Inc.
P.O. Box 200
1550 Balmer Road
Model City, NY 14107

Attention: Mr. Brian Senefelder

RI/FS @ Former Lake Ontario Ordnance Works Site - Lewiston, New York
Overpack Drum Disposal

Dear Brian:

As discussed during our meeting on February 8, 7989, I have attached a copy of the sampling analyses results for the drums removed from the trench in Area A, sampled, and overpacked.

These results characterize the contents of the five overpack salvage drums presently stayed onsite (drum number labels are consistent with those designated on the tabular results).

We anticipate these results will meet your characterization requirements for drum disposal. Should you have any additional requirements, please contact me.

Very truly yours,

K F Litfin

Kenneth F. Litfin.
Project Engineer

KFL:amd
Enclosure

cc: L. Fuerst, COE

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TABLE 7-4
SUMMARY TABLE OF TARGET ORGANICS AND
INORGANIC COMPOUNDS FOR DRUM SAMPLES

CHEMICAL PARAMETERS	DRUM SAMPLES								
	DS-1	DS-2	DS-3	DS-4	DS-5	DS-DUP-1			
VOLATILE ORGANIC COMPOUNDS - ug/kg									
Methylene Chloride		97B		908	76B	80B			
Acetone	980E	7300E	1500E	4600E	3200E	2800E			
1,1 Dichloroethane				5J	5J				
1,2-Dichloroethene (Total)	3J	9	10	12	9	4J			
2-Butanone		79		52	37	32			
Trichloroethene		1J	1J	1J	0.5J				
Benzene	2J	6J	7	8	10	3J			
Tetrachloroethene		2J	0.5J	3J	3J				
Toluene	24	86	94	100	170	38			
Ethylbenzene	0.7J	4J	18	6J	6	4J			
Styrene	1J	4J	5J	5J	7	1J			
Total Xylenes	4J	15	10	24	33	14			
Total Volatile Organics	1011.7	7603	1645.5	4906	3556.5	2976			
SEMI-VOLATILE ORGANICS - ug/kg									
Naphthalene				86J	76J				
2-Methylnaphthalene		90J	280J	370J	330J	350J			
Acenaphthylene					9J				
Acenaphthene						41J			
Diethylphthalate	33J		100J	75J	52J	51J			
N-Nitrosodiphenylamine (1)			150J	330J	83J				
Phenanthrene	46J		230J	1500	130J	220J			
Anthracene				45J					
Fluoranthene				54J					
Pyrene	25J		25J	300J		37J			
Chrysene				54J					
Total Semi-Volatile Organics	104	90	785	2814	680	699			

NOTES

1) Quantities listed indicate detectable concentrations;
2) No data entry indicatea the following: no detectable concentration; or data were negated. See Appendix E for complete summary tables for target and non-target compounds.
3) J indicates that the detected concentration is below the Contract Required Quantification Limit (CRQL).
4) B indicates the presence of the compound in the method blank.
5) E identifies compounds whose concentrations exceed the calibrated range of the GC/MS instrument for that specific analysis.

TABLE 7-4
(Cont'd)

CHEMICAL PARAMETERS	DRUM SAMPLES								
	DS-1	DS-2	DS-3	DS-4	DS-5	DS-DUP-1			
PESTICIDES/PCB'S - ug/kg									
Heptachlor epoxide	2.05								
Endosulfan I	29		8.5J		2J				
4,4'-DDE	19J								
Total Pesticides/PCB's	50		8.5		2				
METALS - ug/g									
Total Arsenic	7.6	11	7.7	7.6	6.2	19			
Total Barium	81	77	85	110	110	100			
Total Beryllium	0.62	0.63							
Total Chromium	19	20	15	16	14	22			
Total Copper	44	35	32	26	28	40			
Total Iron	46690	34970	41160	27120	28540	39690			
Total Lead	11	13	13	12	15	21			
Total Lithium	62	67	60	66	63	59			
Total Nickel	21	19	20	21	15	17			
Total Potassium	3570	2940	3290	2830	2710	2870			
Total Silver									
Total Zinc	63	50	64	74	75	71			

NOTES

1) Quantities listed indicate detectable concentrations;
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3) J indicates that the detected concentration is below the Contract Required Quantification Limit (CRQL).
4) B indicates the presence of the compound in the method blank.
5) E indicates compounds whose concentrations exceed the calibrated range of the GC/MS instrument for that specific analysis.

TABLE 7-5

SUMMARY TABLE OF EP TOXICITY AND RCRA WASTE CHARACTERIZATION FOR DRUM SAMPLES

CHEMICAL PARAMETERS	EPA MAX. CONC. (mg/l)	DRUM SAMPLES							
		DS-1	DS-2	DS-3	DS-4	DS-5	DS-DUP-1		
EP TOXICITY - METALS									
Total Barium	loo	2.1	0.78	1.8	1.9	2.4			
Total Cadmium	1.0				0.007	0.006			
Total Chromium	5.0		0.01	0.013					
Total Selenium	1.0	0.021	0.006	0.011	0.009				
RCRA WASTE CHARACTERISTICS									
Corrosivity (Std. Units)									
Leaching pH		8.43	7.63	7.69	7.97	7.74	7.56		
Flash Point (°F)		>200	>200	>200	>200	>200	>200		
Oxidizer Spot Test		NEG	NEG	NEG	NEG	NEG	NEG		
Total Available Cyanide (mg/kg)		<10	<10	<10	<10	<10	<10		
Total Available Sulfide (mg/kg)		<10	<10	<10	<10	<10	<10		
Paint Filter Free Test		PASS	PASS	PASS	PASS	PASS	PASS		
Dry wt (%)		79.4	78.a	78.2	76.4	78.1	77.4		

NOTES

1) Quantities listed indicate detectable concentrations.
2) No data entry indicates the following: no detectable concentration; or data here negated.