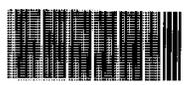


Superfund P...
SITE: New Bedford
BREAK: 0802
OTHER: 46293



SDMS DocID **46293**

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION I
J.F.K. FEDERAL BUILDING, BOSTON, MA 02203-2211**

MEMORANDUM FOR THE RECORD

DATE: January 13, 1992
SUBJ: New Bedford Harbor Superfund Site;
TCLP Data on Compositied Sediment Sample
FROM: Gayle Garman,
Remedial Project Manager *GZ*

EPA's Incineration Research Facility analyzed a composited sample of Hot Spot sediment prior to subjecting these sediments to various conditions of incineration. The composited sediment was subjected to SW-846 Method 1311, the Toxicity Characteristic Leaching Procedure (TCLP) for the four heavy metals that predominate in New Bedford Harbor sediments; cadmium, chromium, copper, and lead. Cadmium, chromium, and lead did not exceed their respective TCLP regulatory levels. A regulatory level for copper has not been adopted.

This data indicates it is unlikely that leachate from New Bedford Harbor sediments is a characteristic hazardous waste.

Attachment: "Pilot-Scale Incineration of PCB-Contaminated Sediments from the Hot Spot of the New Bedford Harbor Superfund Site", November, 1991; Table 4-10, pg. 4-12.

TABLE 4-10. TRACE METALS ANALYSIS RESULTS

Sample	Cd	Cr	Cu	Pb
Sediment feed:				
Drum A-1, mg/kg	3.7	149	383	241
Drum A-2, mg/kg	2.0	40	288	163
Drum A-3, mg/kg	7.4	169	346	281
Drum A-4, mg/kg	2.0	46.5	160	163
Drum B-1, mg/kg	5.1	126	242	185
Drum B-2, mg/kg	22.4	242	388	252
Drum B-3, mg/kg	12.1	223	424	266
Drum B-4, mg/kg	9.5	230	353	241
Average, mg/kg	8.0	153	323	224
Composite, mg/kg	7.4	161	308	236
Composite sediment TCLP leachate, mg/L	0.11	0.041	0.066	1.2
Test 1 (3/15/91):				
Kiln ash, mg/kg	9.5	376	608	277
Kiln ash TCLP leachate, mg/L	0.26	0.048	6.3	0.71
Afterburner exit flue gas, µg/dscm	42.3	219	571	1,030
Scrubber exit flue gas, µg/dscm	34.9	158	421	903
Scrubber liquor, mg/L	0.14	1.9	4.5	8.8
Test 2 (3/19/91):				
Kiln ash, mg/kg	2.7	434	828	75.6
Kiln ash TCLP leachate, mg/L	0.046	0.030	3.01	0.17
Afterburner exit flue gas, µg/dscm	77.6	136	768	1814
Scrubber exit flue gas, µg/dscm	55.3	73.2	436	1,273
Scrubber liquor, mg/L	0.27	1.4	2.6	5.4
Test 3a (3/21/91):				
Kiln ash, mg/kg	2.3	367	785	96
Test 3b (3/21/91):				
Kiln ash, mg/kg	2.0	357	721	62
Kiln ash TCLP leachate, mg/L	0.043	0.03	3.0	0.41
Afterburner exit flue gas, µg/dscm	51.6	126	519	984
Scrubber exit flue gas, µg/dscm	79.0	83.9	750	2,020
Scrubber liquor, mg/L	0.73	1.3	3.4	5.6
TCLP regulatory level, mg/L	1.0	5.0	—^a	5.0

^a— = Not a TCLP metal.