ORIGINAL
(Red)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
CENTRAL REGIONAL LABORATORY
839 BESTGATE ROAD
ANNAPOLIS, MARYLAND 21401

301-224-2740
FTS-922-3752

DATE : October 3, 1984

SUBJECT: Army Creek Landfill: Water Samples for VOC's by GC/MS
Superfund Remedial, (9/13/84 - 9/21/84), 840912-01, 03, 04, 05, 07;
840913-26, 28-32

FROM : Rick Dreisch
Chemist

Diana Pickens
Chemist

TO : Daniel K. Donnelly
Chief, Annapolis Lab

THRU : John Austin
Team Leader, Organic Analysis Section

The above samples were analyzed for volatile organic compounds amenable to the purge and trap technique. The mass spectrmeter was used as the detector. The nominal detection limit was 1 ppb (ug/L). The above samples were received as two sets.

Set number I (840912 series) was not fully accompanied by a field blank.

In set number II (840913 series) only dichlorofluoromethane at an estimated 1 ppb and trichlorofluoromethane at an estimated 2 ppb were found in sample 840913-28. All other samples had no reportable compounds present.

QA Summary

	Average % Recovery	
	9/13	9/17
Bromochloromethane	110 ± 6	89 ± 5
1,4-Dichlorobutane	135 ± 61*	95 ± 5
para-Bromofluorobenzene	107 ± 6	96 ± 8
n =	9	5

*Possible matrix/coelution effects for this compound noted.

RD/DP:ad

cc: P. J. Krantz
QAO, CRL

AR301084

ORIGINAL
(Red)

Sample Description:

Lab No.	Description
840912-01	Army Creek Landfill, Monitoring Well 54, MW54
-03	Army Creek Landfill, Recovery Well 29, RW29
-04	Army Creek Landfill, Recovery Well 13, RW13
-05	Army Creek Landfill, Monitoring Well 26, MW26
-07	Army Creek Landfill, Recovery Well 9, RW9
840913-26	Army Creek Landfill, Monitoring Well 24, MW24
-28	Army Creek Landfill, Monitoring Well 30, MW30
-29	Army Creek Landfill, Blank for Well 30, B30
-30	Army Creek Landfill, Monitoring Well 56, MW56
-31	Army Creek Landfill, Blank for MW56, B56
-32	Army Creek Landfill, Field Blank

AR301085

U.S. Environmental Protection Agency Region III, Central Regional Laboratory

Project Name: Army Creek Landfill - Superfund Remedial

Sample Number:	Cas Number	840912-01 ug/L	840912-03 ug/L	840912-04 ug/L	840912-05 ug/L	840912-07 ug/L
VOLATILES - STANDARD EQUATABLE						
Benzene	71-43-2	--	31	37	4.0	2.1
Chlorobenzene	108-90-7	--	18	Trace[1]	--	--
1,1-Dichloroethane	75-34-3	--	2.5	--	--	--
1,2-Dichloroethane	107-06-2	--	3.8	1.4	2.4	Trace[1]
Ethylbenzene	100-41-4	--	7.8	4.4	--	Trace[1]
Toluene	108-88-3	--	Trace[1]	110	--	--
Trichloroethylene	79-01-6	--	--	Trace[1]	Trace[1]	--
VOLATILES - NON-STANDARD EQUATABLE**						
Acetone	67-64-1	--	--	(1)	(Trace)[1]	(Trace)[1]
2-Butanone (EMK)	78-93-0	--	--	(2)	--	--
Dichlorobenzene isomer		--	(2)	--	(Trace)[1]	--
cis-1,2-Dichloroethylene	156-59-2	(29)	(2)	--	(Trace)[1]	--
1,4-Dioxane	123-91-1	--	--	(Trace)[1]	--	--
Ethyl Methyl Benzene isomer		--	(4)	(3)	--	--
4-Methyl-2-Pentanone (MIBK)	108-10-1	--	--	(6)	--	--
Propyl Benzene	103-65-1	--	(8)	(3)	--	--
Styrene	100-42-5	--	--	(2)	--	--
Trimethyl Benzene isomer		--	(6)	(15)	--	--
(o,m)-Xylene isomers		--	(3)	(43)	--	--
p-Xylene isomer	106-42-3	--	(4)	(11)	--	--
Ethyl Ether		--	(29)	--	(3)	(Trace)[1]
Unknown (165)		--	(10)	--	--	--
Chlorofluoromethane		--	(3)	--	--	(Trace)[1]
2-Butene?		--	(2)	--	--	--
Dichlorofluoromethane		--	(4)	--	--	--
Substituted Benzene isomer		--	(21)	(2)	--	--

[1]Trace = <1 ppb

**Estimated concentration based upon internal standard/external standard calculation.

ORIGINAL (Red)

U.S. Environmental Protection Agency Region III, Central Regional Laboratory

Project Name: Army Creek Landfill - Superfund Remedial

Sample Number:	840912-01	840912-03	840912-04	840912-05	840912-07
	ug/L	ug/L	ug/L	ug/L	ug/L
VOLATILES - NON-STANDARD EQUATABLE**					
Cas Number					
Unknown (1221)	--	(59)	(3)	--	--
2-Propanol	--	--	(5)	--	--
Unknown (538)	--	--	(2)	--	--
Ethyl Methyl Benzene isomer	--	--	(13)	--	--
Trimethyl Benzene isomer	--	--	(5)	--	--
Oxima Cyclobutanone?			[illegible]		
Trimethyl Benzene isomer	--	--	(4)	--	--
2,3-Dihydro-dimethyl-1H-Indene isomer	--	--	(2)	--	--

[1]Trace = <1 ppb

**Estimated concentration based upon internal standard/external standard calculation.

AR301067