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CleanHarbors

MURPHY'S WASTE OIL SERVICE, INC.

Volume 2 of 3

Corrective Action Investigation Report

Murphy's Waste Oil Service, Inc.
252 Salem Street
Woburn, MA 01801

April 15, 1996

Prepared by:
Clean Harbors Environmental Services, Inc.
12 Mercer Road
Natick, MA 01760

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-14, SS-5
Sample Type: Soil

CHES Lab #: 9510031-04M
Date Received: 10/03/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	4	ND	10/06/95	10/09/95	3005/6010(c)
Arsenic - Total	6	ND	10/06/95	10/10/95	3050/6010(c)
Beryllium - Total	0.032	ND	10/06/95	10/10/95	3050/6010(c)
Cadmium - Total	0.32	ND	10/06/95	10/10/95	3050/6010(c)
Chromium - Total	0.97	9.4	10/06/95	10/10/95	3050/6010(c)
Copper - Total	0.97	12	10/06/95	10/10/95	3050/6010(c)
Lead - Total	3	60	10/06/95	10/10/95	3050/6010(c)
Mercury - Total	0.0653	ND	10/06/95	10/10/95	7471(c)
Nickel - Total	0.97	1.3	10/06/95	10/10/95	3050/6010(c)
Selenium - Total	6	ND	10/06/95	10/10/95	3050/6010(c)
Silver - Total	0.75	ND	10/06/95	10/09/95	3005/6010(c)
Thallium - Total	10	ND	10/06/95	10/10/95	3050/6010(c)
Zinc - Total	1.3	25	10/06/95	10/10/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-14, SS-5
Sample Type: Soil

CHES Lab #: 9510031-04M
Date Received: 10/03/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	1.4	ND	mg/kg	10/05/95	9010(c)
Total Solids	--	85.7	%	10/05/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11,SS-3
Sample Type: Soil

CHES Lab #: 9510031-050
Date Received: 10/03/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	49	10/06/95	10/10/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil with additional single component peaks.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 80%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11,SS-3
Sample Type: Soil

CHES Lab #: 9510031-05M
Date Received: 10/03/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	4	6	10/06/95	10/09/95	3005/6010(c)
Arsenic - Total	8	ND	10/06/95	10/10/95	3050/6010(c)
Beryllium - Total	0.038	ND	10/06/95	10/10/95	3050/6010(c)
Cadmium - Total	0.38	ND	10/06/95	10/10/95	3050/6010(c)
Chromium - Total	1.1	400	10/06/95	10/11/95	3050/6010(c)
Copper - Total	1.1	13	10/06/95	10/10/95	3050/6010(c)
Lead - Total	4	20	10/06/95	10/10/95	3050/6010(c)
Mercury - Total	0.0585	ND	10/06/95	10/10/95	7471(c)
Nickel - Total	1.1	ND	10/06/95	10/10/95	3050/6010(c)
Selenium - Total	8	ND	10/06/95	10/10/95	3050/6010(c)
Silver - Total	0.76	ND	10/06/95	10/09/95	3005/6010(c)
Thallium - Total	10	ND	10/06/95	10/10/95	3050/6010(c)
Zinc - Total	1.5	41	10/06/95	10/10/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11,SS-3
Sample Type: Soil

CHES Lab #: 9510031-05M
Date Received: 10/03/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	1.5	ND	mg/kg	10/05/95	9010(c)
Total Solids	--	87.8	%	10/05/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11,SS-5
Sample Type: Soil

CHES Lab #: 9510031-060
Date Received: 10/03/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	26	10/06/95	10/10/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil with additional single component peaks.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 91%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11,SS-5
Sample Type: Soil

CHES Lab #: 9510031-06M
Date Received: 10/03/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	4	ND	10/09/95	10/11/95	3005/6010(c)
Arsenic - Total	7	ND	10/09/95	10/10/95	3050/6010(c)
Beryllium - Total	0.033	ND	10/09/95	10/10/95	3050/6010(c)
Cadmium - Total	0.33	ND	10/09/95	10/10/95	3050/6010(c)
Chromium - Total	1.0	38	10/09/95	10/10/95	3050/6010(c)
Copper - Total	1.0	1.5	10/09/95	10/10/95	3050/6010(c)
Lead - Total	3	4	10/09/95	10/10/95	3050/6010(c)
Mercury - Total	0.0463	ND	10/06/95	10/10/95	7471(c)
Nickel - Total	1.0	ND	10/09/95	10/10/95	3050/6010(c)
Selenium - Total	7	ND	10/09/95	10/10/95	3050/6010(c)
Silver - Total	0.78	ND	10/09/95	10/11/95	3005/6010(c)
Thallium - Total	10	ND	10/09/95	10/10/95	3050/6010(c)
Zinc - Total	1.3	11	10/09/95	10/10/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11,SS-5
Sample Type: Soil

CHES Lab #: 9510031-06M
Date Received: 10/03/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	1.7	ND	mg/kg	10/06/95	9010(c)
Total Solids	--	78.6	%	10/05/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: COMP.OF MW-11,SS-3,SS-5,SS-6
Sample Type: Soil

CHES Lab #: 9510031-08L
Date Received: 10/03/95

SIEVE ANALYSIS

by ASTM Method Mod. D422

Analysis Date: 10/16/95

SIEVE NUMBER	OPENING SIZE in MM	WEIGHT %
--	9.5	5.4
4	4.75	1.8
10	2.00	2.9
20	0.850	3.3
40	0.425	9.0
60	0.250	32.7
100	0.150	29.2
200	0.075	12.9
Bottom Tray	<0.075	2.7

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-15, SS-5
Sample Type: Soil

CHES Lab #: 9510031-090
Date Received: 10/03/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	11	10/06/95	10/10/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil with additional single component peaks.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 89%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-15, SS-5
Sample Type: Soil

CHES Lab #: 9510031-09M
Date Received: 10/03/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	4	ND	10/09/95	10/11/95	3005/6010(c)
Arsenic - Total	8	ND	10/09/95	10/10/95	3050/6010(c)
Beryllium - Total	0.038	ND	10/09/95	10/10/95	3050/6010(c)
Cadmium - Total	0.38	ND	10/09/95	10/10/95	3050/6010(c)
Chromium - Total	1.1	9.6	10/09/95	10/10/95	3050/6010(c)
Copper - Total	1.1	4.2	10/09/95	10/10/95	3050/6010(c)
Lead - Total	4	ND	10/09/95	10/10/95	3050/6010(c)
Mercury - Total	0.0743	ND	10/06/95	10/10/95	7471(c)
Nickel - Total	1.1	2.6	10/09/95	10/10/95	3050/6010(c)
Selenium - Total	8	ND	10/09/95	10/10/95	3050/6010(c)
Silver - Total	0.77	ND	10/09/95	10/11/95	3005/6010(c)
Thallium - Total	10	ND	10/09/95	10/10/95	3050/6010(c)
Zinc - Total	1.5	9.8	10/09/95	10/10/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-15, SS-5
Sample Type: Soil

CHES Lab #: 9510031-09M
Date Received: 10/03/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	1.7	ND	mg/kg	10/06/95	9010(c)
Total Solids	--	85.0	%	10/05/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-15, SS-7
Sample Type: Soil

CHES Lab #: 9510031-100
Date Received: 10/03/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	ND	10/06/95	10/10/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
No significant hydrocarbons observed.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 89%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-15, SS-7
Sample Type: Soil

CHES Lab #: 9510031-10M
Date Received: 10/03/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	4	ND	10/09/95	10/11/95	3005/6010(c)
Arsenic - Total	8	ND	10/09/95	10/10/95	3050/6010(c)
Beryllium - Total	0.039	ND	10/09/95	10/10/95	3050/6010(c)
Cadmium - Total	0.39	ND	10/09/95	10/10/95	3050/6010(c)
Chromium - Total	1.2	6.6	10/09/95	10/10/95	3050/6010(c)
Copper - Total	1.2	4.6	10/09/95	10/10/95	3050/6010(c)
Lead - Total	4	ND	10/09/95	10/10/95	3050/6010(c)
Mercury - Total	0.0676	ND	10/06/95	10/10/95	7471(c)
Nickel - Total	1.2	2.2	10/09/95	10/10/95	3050/6010(c)
Selenium - Total	8	ND	10/09/95	10/10/95	3050/6010(c)
Silver - Total	0.85	ND	10/09/95	10/11/95	3005/6010(c)
Thallium - Total	10	ND	10/09/95	10/10/95	3050/6010(c)
Zinc - Total	1.5	11	10/09/95	10/10/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-15, SS-7
Sample Type: Soil

CHES Lab #: 9510031-10M
Date Received: 10/03/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	2.0	ND	mg/kg	10/06/95	9010(c)
Total Solids	--	84.5	%	10/05/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-16, SS-6
Sample Type: Soil

CHES Lab #: 9510031-110
Date Received: 10/03/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	240	10/06/95	10/10/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-16, SS-6
Sample Type: Soil

CHES Lab #: 9510031-11M
Date Received: 10/03/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	3	ND	10/09/95	10/11/95	3005/6010(c)
Arsenic - Total	7	ND	10/09/95	10/10/95	3050/6010(c)
Beryllium - Total	0.034	ND	10/09/95	10/10/95	3050/6010(c)
Cadmium - Total	0.34	ND	10/09/95	10/10/95	3050/6010(c)
Chromium - Total	1.0	6.9	10/09/95	10/10/95	3050/6010(c)
Copper - Total	1.0	3.5	10/09/95	10/10/95	3050/6010(c)
Lead - Total	3	8	10/09/95	10/10/95	3050/6010(c)
Mercury - Total	0.0672	ND	10/06/95	10/10/95	7471(c)
Nickel - Total	1.0	ND	10/09/95	10/10/95	3050/6010(c)
Selenium - Total	7	ND	10/09/95	10/10/95	3050/6010(c)
Silver - Total	0.67	ND	10/09/95	10/11/95	3005/6010(c)
Thallium - Total	10	ND	10/09/95	10/10/95	3050/6010(c)
Zinc - Total	1.4	10	10/09/95	10/10/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-16, SS-6
Sample Type: Soil

CHES Lab #: 9510031-11M
Date Received: 10/03/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	1.9	ND	mg/kg	10/06/95	9010(c)
Total Solids	--	87.1	%	10/05/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

CERTIFICATE OF ANALYSIS

Client: Clean Harbors

Address: 325 Wood Road

Braintree, MA 02184

Attn: Peter Conroy

Project Number: 9510031-2

Site:

Laboratory Job Number: L9507726

Invoice Number: 77917

Date Received: 10-OCT-95

Date Reported: 16-OCT-95

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9507726-01	9510031-01A	
L9507726-02	9510031-02A	
L9507726-03	9510031-03A	
L9507726-04	9510031-04A	
L9507726-05	9510031-05A	
L9507726-06	9510031-06A	
L9507726-07	9510031-09A	
L9507726-08	9510031-10A	
L9507726-09	9510031-11A	
L9507726-10	9510032-01A	
L9507726-11	9510032-02A	
L9507726-12	9510032-04A	

Authorized by: James R. Roth

James R. Roth, PhD - Laboratory Manager

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507726-01
9510031-01A
Sample Matrix: SOLID

Date Collected: 02-OCT-95
Date Received : 10-OCT-95
Date Reported : 16-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	81.	%	0.10	3	2540B		12-Oct	ST
Volatile Organics by GC/MS				1	8260	11-Oct	11-Oct	DB
Methylene chloride	ND	ug/kg	25.					
1,1-Dichloroethane	ND	ug/kg	7.5					
Chloroform	ND	ug/kg	7.5					
Carbon tetrachloride	ND	ug/kg	5.0					
1,2-Dichloropropane	ND	ug/kg	18.					
Dibromochloromethane	ND	ug/kg	5.0					
1,1,2-Trichloroethane	ND	ug/kg	7.5					
-Chloroethylvinyl ether	ND	ug/kg	50.					
etrachloroethene	ND	ug/kg	7.5					
Chlorobenzene	ND	ug/kg	18.					
Trichlorofluoromethane	ND	ug/kg	25.					
1,2-Dichloroethane	ND	ug/kg	7.5					
1,1,1-Trichloroethane	ND	ug/kg	5.0					
Bromodichloromethane	ND	ug/kg	5.0					
trans-1,3-Dichloropropene	ND	ug/kg	7.5					
cis-1,3-Dichloropropene	ND	ug/kg	5.0					
Bromoform	ND	ug/kg	5.0					
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0					
Benzene	ND	ug/kg	5.0					
Toluene	ND	ug/kg	7.5					
Ethylbenzene	ND	ug/kg	5.0					
Chloromethane	ND	ug/kg	50.					
Bromomethane	ND	ug/kg	10.					
Vinyl chloride	ND	ug/kg	18.					
Chloroethane	ND	ug/kg	10.					
1,1-Dichloroethene	ND	ug/kg	7.5					
trans-1,2-Dichloroethene	ND	ug/kg	7.5					
Trichloroethene	ND	ug/kg	5.0					
1,2-Dichlorobenzene	ND	ug/kg	50.					
1,3-Dichlorobenzene	ND	ug/kg	50.					
1,4-Dichlorobenzene	ND	ug/kg	50.					
Methyl tert butyl ether	ND	ug/kg	50.					
Xylenes	ND	ug/kg	5.0					
cis-1,2-Dichloroethene	ND	ug/kg	5.0					
Dibromomethane	ND	ug/kg	50.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507726-01
9510031-01A

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	11-Oct	11-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	50.					
Iodomethane	ND	ug/kg	50.					
1,2,3-Trichloropropane	ND	ug/kg	50.					
Styrene	ND	ug/kg	5.0					
Dichlorodifluoromethane	ND	ug/kg	50.					
Acetone	ND	ug/kg	50.					
Carbon Disulfide	ND	ug/kg	50.					
2-Butanone	ND	ug/kg	23.					
Vinyl Acetate	ND	ug/kg	50.					
4-Methyl-2-pentanone	ND	ug/kg	50.					
2-Hexanone	ND	ug/kg	50.					
Ethyl methacrylate	ND	ug/kg	50.					
Acrolein	ND	ug/kg	130					
Acrylonitrile	ND	ug/kg	50.					
Bromochloromethane	ND	ug/kg	25.					
2,2-Dichloropropane	ND	ug/kg	25.					
1,2-Dibromoethane	ND	ug/kg	25.					
1,3-Dichloropropane	ND	ug/kg	25.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	25.					
Bromobenzene	ND	ug/kg	25.					
-Butylbenzene	ND	ug/kg	25.					
sec-Butylbenzene	ND	ug/kg	25.					
tert-Butylbenzene	ND	ug/kg	25.					
o-Chlorotoluene	ND	ug/kg	25.					
p-Chlorotoluene	ND	ug/kg	25.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	25.					
Hexachlorobutadiene	ND	ug/kg	25.					
Isopropylbenzene	ND	ug/kg	25.					
p-Isopropyltoluene	ND	ug/kg	25.					
Naphthalene	ND	ug/kg	25.					
n-Propylbenzene	ND	ug/kg	25.					
1,2,3-Trichlorobenzene	ND	ug/kg	25.					
1,2,4-Trichlorobenzene	ND	ug/kg	25.					
1,3,5-Trimethylbenzene	ND	ug/kg	25.					
1,2,4-Trimethylbenzene	ND	ug/kg	25.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	25.					
Ethyl ether	ND	ug/kg	130					
SURROGATE RECOVERY								
Toluene-d8	103.	%						
4-Bromofluorobenzene	77.0	%						
Dibromofluoromethane	100.	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507726-02
9510031-02A
Sample Matrix: SOLID

Date Collected: 02-OCT-95
Date Received : 10-OCT-95
Date Reported : 16-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	87.	%	0.10	3	2540B		12-Oct	ST
Volatile Organics by GC/MS				1	8260	11-Oct	11-Oct	DB
Methylene chloride	ND	ug/kg	25.					
1,1-Dichloroethane	ND	ug/kg	7.5					
Chloroform	ND	ug/kg	7.5					
Carbon tetrachloride	ND	ug/kg	5.0					
1,2-Dichloropropane	ND	ug/kg	18.					
Dibromochloromethane	ND	ug/kg	5.0					
1,1,2-Trichloroethane	ND	ug/kg	7.5					
2-Chloroethylvinyl ether	ND	ug/kg	50.					
Tetrachloroethene	ND	ug/kg	7.5					
Chlorobenzene	ND	ug/kg	18.					
Trichlorofluoromethane	ND	ug/kg	25.					
1,2-Dichloroethane	ND	ug/kg	7.5					
1,1,1-Trichloroethane	ND	ug/kg	5.0					
Bromodichloromethane	ND	ug/kg	5.0					
trans-1,3-Dichloropropene	ND	ug/kg	7.5					
cis-1,3-Dichloropropene	ND	ug/kg	5.0					
Bromoform	ND	ug/kg	5.0					
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0					
Benzene	ND	ug/kg	5.0					
Toluene	ND	ug/kg	7.5					
Ethylbenzene	ND	ug/kg	5.0					
Chloromethane	ND	ug/kg	50.					
Bromomethane	ND	ug/kg	10.					
Vinyl chloride	ND	ug/kg	18.					
Chloroethane	ND	ug/kg	10.					
1,1-Dichloroethene	ND	ug/kg	7.5					
trans-1,2-Dichloroethene	ND	ug/kg	7.5					
Trichloroethene	ND	ug/kg	5.0					
1,2-Dichlorobenzene	ND	ug/kg	50.					
1,3-Dichlorobenzene	ND	ug/kg	50.					
1,4-Dichlorobenzene	ND	ug/kg	50.					
Methyl tert butyl ether	ND	ug/kg	50.					
Xylenes	ND	ug/kg	5.0					
cis-1,2-Dichloroethene	ND	ug/kg	5.0					
Dibromomethane	ND	ug/kg	50.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507726-02
9510031-02A

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	11-Oct	11-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	50.					
Iodomethane	ND	ug/kg	50.					
1,2,3-Trichloropropane	ND	ug/kg	50.					
Styrene	ND	ug/kg	5.0					
Dichlorodifluoromethane	ND	ug/kg	50.					
Acetone	ND	ug/kg	50.					
Carbon Disulfide	ND	ug/kg	50.					
2-Butanone	ND	ug/kg	23.					
Vinyl Acetate	ND	ug/kg	50.					
4-Methyl-2-pentanone	ND	ug/kg	50.					
2-Hexanone	ND	ug/kg	50.					
Ethyl methacrylate	ND	ug/kg	50.					
Acrolein	ND	ug/kg	130					
Acrylonitrile	ND	ug/kg	50.					
Bromochloromethane	ND	ug/kg	25.					
2,2-Dichloropropane	ND	ug/kg	25.					
1,2-Dibromoethane	ND	ug/kg	25.					
1,3-Dichloropropane	ND	ug/kg	25.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	25.					
Bromobenzene	ND	ug/kg	25.					
-Butylbenzene	ND	ug/kg	25.					
ec-Butylbenzene	ND	ug/kg	25.					
tert-Butylbenzene	ND	ug/kg	25.					
o-Chlorotoluene	ND	ug/kg	25.					
p-Chlorotoluene	ND	ug/kg	25.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	25.					
Hexachlorobutadiene	ND	ug/kg	25.					
Isopropylbenzene	ND	ug/kg	25.					
p-Isopropyltoluene	ND	ug/kg	25.					
Naphthalene	ND	ug/kg	25.					
n-Propylbenzene	ND	ug/kg	25.					
1,2,3-Trichlorobenzene	ND	ug/kg	25.					
1,2,4-Trichlorobenzene	ND	ug/kg	25.					
1,3,5-Trimethylbenzene	ND	ug/kg	25.					
1,2,4-Trimethylbenzene	ND	ug/kg	25.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	25.					
Ethyl ether	ND	ug/kg	130					

SURROGATE RECOVERY

Toluene-d8	96.0	%
4-Bromofluorobenzene	80.0	%
Dibromofluoromethane	89.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507726-03
9510031-03A
Sample Matrix: SOLID

Date Collected: 02-OCT-95
Date Received : 10-OCT-95
Date Reported : 16-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	85.	%	0.10	3	2540B		16-Oct	ST
Volatile Organics by GC/MS				1	8260	12-Oct	12-Oct	DB
Methylene chloride	ND	ug/kg	2500					
1,1-Dichloroethane	ND	ug/kg	750					
Chloroform	ND	ug/kg	750					
Carbon tetrachloride	ND	ug/kg	500					
1,2-Dichloropropane	ND	ug/kg	1800					
Dibromochloromethane	ND	ug/kg	500					
1,1,2-Trichloroethane	ND	ug/kg	750					
2-Chloroethylvinyl ether	ND	ug/kg	5000					
Tetrachloroethene	ND	ug/kg	750					
Chlorobenzene	ND	ug/kg	1800					
Trichlorofluoromethane	ND	ug/kg	2500					
1,2-Dichloroethane	ND	ug/kg	750					
1,1,1-Trichloroethane	ND	ug/kg	500					
Bromodichloromethane	ND	ug/kg	500					
trans-1,3-Dichloropropene	ND	ug/kg	750					
cis-1,3-Dichloropropene	ND	ug/kg	500					
Bromoform	ND	ug/kg	500					
1,1,2,2-Tetrachloroethane	ND	ug/kg	500					
Benzene	ND	ug/kg	500					
Toluene	ND	ug/kg	750					
Ethylbenzene	ND	ug/kg	500					
Chloromethane	ND	ug/kg	5000					
Bromomethane	ND	ug/kg	1000					
Vinyl chloride	ND	ug/kg	1800					
Chloroethane	ND	ug/kg	1000					
1,1-Dichloroethene	ND	ug/kg	750					
trans-1,2-Dichloroethene	ND	ug/kg	750					
Trichloroethene	ND	ug/kg	500					
1,2-Dichlorobenzene	ND	ug/kg	5000					
1,3-Dichlorobenzene	ND	ug/kg	5000					
1,4-Dichlorobenzene	ND	ug/kg	5000					
Methyl tert butyl ether	ND	ug/kg	5000					
Xylenes	1300	ug/kg	500					
cis-1,2-Dichloroethene	ND	ug/kg	500					
Dibromomethane	ND	ug/kg	5000					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507726-03
9510031-03A

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	12-Oct	12-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	5000					
Iodomethane	ND	ug/kg	5000					
1,2,3-Trichloropropane	ND	ug/kg	5000					
Styrene	ND	ug/kg	500					
Dichlorodifluoromethane	ND	ug/kg	5000					
Acetone	ND	ug/kg	5000					
Carbon Disulfide	ND	ug/kg	5000					
2-Butanone	ND	ug/kg	2300					
Vinyl Acetate	ND	ug/kg	5000					
4-Methyl-2-pentanone	ND	ug/kg	5000					
2-Hexanone	ND	ug/kg	5000					
Ethyl methacrylate	ND	ug/kg	5000					
Acrolein	ND	ug/kg	13000					
Acrylonitrile	ND	ug/kg	5000					
Bromochloromethane	ND	ug/kg	2500					
2,2-Dichloropropane	ND	ug/kg	2500					
1,2-Dibromoethane	ND	ug/kg	2500					
1,3-Dichloropropane	ND	ug/kg	2500					
1,1,1,2-Tetrachloroethane	ND	ug/kg	2500					
Bromobenzene	ND	ug/kg	2500					
-Butylbenzene	ND	ug/kg	2500					
ec-Butylbenzene	ND	ug/kg	2500					
tert-Butylbenzene	ND	ug/kg	2500					
o-Chlorotoluene	ND	ug/kg	2500					
p-Chlorotoluene	ND	ug/kg	2500					
1,2-Dibromo-3-chloropropane	ND	ug/kg	2500					
Hexachlorobutadiene	ND	ug/kg	2500					
Isopropylbenzene	ND	ug/kg	2500					
p-Isopropyltoluene	ND	ug/kg	2500					
Naphthalene	ND	ug/kg	2500					
n-Propylbenzene	ND	ug/kg	2500					
1,2,3-Trichlorobenzene	ND	ug/kg	2500					
1,2,4-Trichlorobenzene	ND	ug/kg	2500					
1,3,5-Trimethylbenzene	ND	ug/kg	2500					
1,2,4-Trimethylbenzene	ND	ug/kg	2500					
trans-1,4-Dichloro-2-butene	ND	ug/kg	2500					
Ethyl ether	ND	ug/kg	13000					
SURROGATE RECOVERY								
Toluene-d8	104.	%						
4-Bromofluorobenzene	111.	%						
Dibromofluoromethane	93.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507726-04
9510031-04A
Sample Matrix: SOLID

Date Collected: 02-OCT-95
Date Received : 10-OCT-95
Date Reported : 16-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	88.	%	0.10	3	2540B		16-Oct	ST
Volatile Organics by GC/MS				1	8260	12-Oct	12-Oct	DB
Methylene chloride	ND	ug/kg	1000					
1,1-Dichloroethane	ND	ug/kg	300					
Chloroform	ND	ug/kg	300					
Carbon tetrachloride	ND	ug/kg	200					
1,2-Dichloropropane	ND	ug/kg	700					
Dibromochloromethane	ND	ug/kg	200					
1,1,2-Trichloroethane	ND	ug/kg	300					
`-Chloroethylvinyl ether	ND	ug/kg	2000					
etrachloroethene	ND	ug/kg	300					
Chlorobenzene	ND	ug/kg	700					
Trichlorofluoromethane	ND	ug/kg	1000					
1,2-Dichloroethane	ND	ug/kg	300					
1,1,1-Trichloroethane	ND	ug/kg	200					
Bromodichloromethane	ND	ug/kg	200					
trans-1,3-Dichloropropene	ND	ug/kg	300					
cis-1,3-Dichloropropene	ND	ug/kg	200					
Bromoform	ND	ug/kg	200					
1,1,2,2-Tetrachloroethane	ND	ug/kg	200					
Benzene	ND	ug/kg	200					
Toluene	380	ug/kg	300					
Ethylbenzene	ND	ug/kg	200					
Chloromethane	ND	ug/kg	2000					
Bromomethane	ND	ug/kg	400					
Vinyl chloride	ND	ug/kg	700					
Chloroethane	ND	ug/kg	400					
1,1-Dichloroethene	ND	ug/kg	300					
trans-1,2-Dichloroethene	ND	ug/kg	300					
Trichloroethene	ND	ug/kg	200					
1,2-Dichlorobenzene	ND	ug/kg	2000					
1,3-Dichlorobenzene	ND	ug/kg	2000					
1,4-Dichlorobenzene	ND	ug/kg	2000					
Methyl tert butyl ether	ND	ug/kg	2000					
Xylenes	580	ug/kg	200					
cis-1,2-Dichloroethene	ND	ug/kg	200					
Dibromomethane	ND	ug/kg	2000					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507726-04
9510031-04A

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	12-Oct	12-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	2000					
Iodomethane	ND	ug/kg	2000					
1,2,3-Trichloropropane	ND	ug/kg	2000					
Styrene	ND	ug/kg	200					
Dichlorodifluoromethane	ND	ug/kg	2000					
Acetone	ND	ug/kg	2000					
Carbon Disulfide	ND	ug/kg	2000					
2-Butanone	ND	ug/kg	900					
Vinyl Acetate	ND	ug/kg	2000					
4-Methyl-2-pentanone	ND	ug/kg	2000					
2-Hexanone	ND	ug/kg	2000					
Ethyl methacrylate	ND	ug/kg	2000					
Acrolein	ND	ug/kg	5000					
Acrylonitrile	ND	ug/kg	2000					
Bromochloromethane	ND	ug/kg	1000					
2,2-Dichloropropane	ND	ug/kg	1000					
1,2-Dibromoethane	ND	ug/kg	1000					
1,3-Dichloropropane	ND	ug/kg	1000					
1,1,1,2-Tetrachloroethane	ND	ug/kg	1000					
Bromobenzene	ND	ug/kg	1000					
-Butylbenzene	ND	ug/kg	1000					
ec-Butylbenzene	ND	ug/kg	1000					
tert-Butylbenzene	ND	ug/kg	1000					
o-Chlorotoluene	ND	ug/kg	1000					
p-Chlorotoluene	ND	ug/kg	1000					
1,2-Dibromo-3-chloropropane	ND	ug/kg	1000					
Hexachlorobutadiene	ND	ug/kg	1000					
Isopropylbenzene	ND	ug/kg	1000					
p-Isopropyltoluene	ND	ug/kg	1000					
Naphthalene	ND	ug/kg	1000					
n-Propylbenzene	ND	ug/kg	1000					
1,2,3-Trichlorobenzene	ND	ug/kg	1000					
1,2,4-Trichlorobenzene	ND	ug/kg	1000					
1,3,5-Trimethylbenzene	ND	ug/kg	1000					
1,2,4-Trimethylbenzene	ND	ug/kg	1000					
trans-1,4-Dichloro-2-butene	ND	ug/kg	1000					
Ethyl ether	ND	ug/kg	5000					
SURROGATE RECOVERY								
Toluene-d8	126.	%						
4-Bromofluorobenzene	132.	%						
Dibromofluoromethane	102.	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507726-05
9510031-05A
Sample Matrix: SOLID

Date Collected: 03-OCT-95
Date Received : 10-OCT-95
Date Reported : 16-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	85.	%	0.10	3	2540B		16-Oct	ST
Volatile Organics by GC/MS				1	8260	12-Oct	12-Oct	DB
Methylene chloride	ND	ug/kg	34.					
1,1-Dichloroethane	ND	ug/kg	7.5					
Chloroform	ND	ug/kg	7.5					
Carbon tetrachloride	ND	ug/kg	5.0					
1,2-Dichloropropane	ND	ug/kg	18.					
Dibromochloromethane	ND	ug/kg	5.0					
1,1,2-Trichloroethane	ND	ug/kg	7.5					
-Chloroethylvinyl ether	ND	ug/kg	50.					
etrachloroethene	ND	ug/kg	7.5					
Chlorobenzene	ND	ug/kg	18.					
Trichlorofluoromethane	ND	ug/kg	25.					
1,2-Dichloroethane	ND	ug/kg	7.5					
1,1,1-Trichloroethane	ND	ug/kg	5.0					
Bromodichloromethane	ND	ug/kg	5.0					
trans-1,3-Dichloropropene	ND	ug/kg	7.5					
cis-1,3-Dichloropropene	ND	ug/kg	5.0					
Bromoform	ND	ug/kg	5.0					
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0					
Benzene	ND	ug/kg	5.0					
Toluene	ND	ug/kg	7.5					
Ethylbenzene	ND	ug/kg	5.0					
Chloromethane	ND	ug/kg	50.					
Bromomethane	ND	ug/kg	10.					
Vinyl chloride	ND	ug/kg	18.					
Chloroethane	ND	ug/kg	10.					
1,1-Dichloroethene	ND	ug/kg	7.5					
trans-1,2-Dichloroethene	ND	ug/kg	7.5					
Trichloroethene	ND	ug/kg	5.0					
1,2-Dichlorobenzene	ND	ug/kg	50.					
1,3-Dichlorobenzene	ND	ug/kg	50.					
1,4-Dichlorobenzene	ND	ug/kg	50.					
Methyl tert butyl ether	ND	ug/kg	50.					
Xylenes	ND	ug/kg	5.0					
cis-1,2-Dichloroethene	ND	ug/kg	5.0					
Dibromomethane	ND	ug/kg	50.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507726-05
9510031-05A

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	12-Oct	12-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	50.					
Iodomethane	ND	ug/kg	50.					
1,2,3-Trichloropropane	ND	ug/kg	50.					
Styrene	ND	ug/kg	5.0					
Dichlorodifluoromethane	ND	ug/kg	50.					
Acetone	ND	ug/kg	50.					
Carbon Disulfide	ND	ug/kg	50.					
2-Butanone	ND	ug/kg	23.					
Vinyl Acetate	ND	ug/kg	50.					
4-Methyl-2-pentanone	ND	ug/kg	50.					
2-Hexanone	ND	ug/kg	50.					
Ethyl methacrylate	ND	ug/kg	50.					
Acrolein	ND	ug/kg	130					
Acrylonitrile	ND	ug/kg	50.					
Bromochloromethane	ND	ug/kg	25.					
2,2-Dichloropropane	ND	ug/kg	25.					
1,2-Dibromoethane	ND	ug/kg	25.					
1,3-Dichloropropane	ND	ug/kg	25.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	25.					
Bromobenzene	ND	ug/kg	25.					
-Butylbenzene	ND	ug/kg	25.					
sec-Butylbenzene	ND	ug/kg	25.					
tert-Butylbenzene	ND	ug/kg	25.					
o-Chlorotoluene	ND	ug/kg	25.					
p-Chlorotoluene	ND	ug/kg	25.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	25.					
Hexachlorobutadiene	ND	ug/kg	25.					
Isopropylbenzene	ND	ug/kg	25.					
p-Isopropyltoluene	ND	ug/kg	25.					
Naphthalene	ND	ug/kg	25.					
n-Propylbenzene	ND	ug/kg	25.					
1,2,3-Trichlorobenzene	ND	ug/kg	25.					
1,2,4-Trichlorobenzene	ND	ug/kg	25.					
1,3,5-Trimethylbenzene	ND	ug/kg	25.					
1,2,4-Trimethylbenzene	ND	ug/kg	25.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	25.					
Ethyl ether	ND	ug/kg	130					
SURROGATE RECOVERY								
Toluene-d8	85.0	%						
4-Bromofluorobenzene	80.0	%						
Dibromofluoromethane	90.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507726-06
9510031-06A
Sample Matrix: SOLID

Date Collected: 03-OCT-95
Date Received : 10-OCT-95
Date Reported : 16-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	83.	%	0.10	3	2540B		16-Oct	ST
Volatile Organics by GC/MS				1	8260	12-Oct	12-Oct	DB
Methylene chloride	ND	ug/kg	25.					
1,1-Dichloroethane	ND	ug/kg	7.5					
Chloroform	ND	ug/kg	7.5					
Carbon tetrachloride	ND	ug/kg	5.0					
1,2-Dichloropropane	ND	ug/kg	18.					
Dibromochloromethane	ND	ug/kg	5.0					
1,1,2-Trichloroethane	ND	ug/kg	7.5					
`-Chloroethylvinyl ether	ND	ug/kg	50.					
.etrachloroethene	ND	ug/kg	7.5					
Chlorobenzene	ND	ug/kg	18.					
Trichlorofluoromethane	ND	ug/kg	25.					
1,2-Dichloroethane	ND	ug/kg	7.5					
1,1,1-Trichloroethane	ND	ug/kg	5.0					
Bromodichloromethane	ND	ug/kg	5.0					
trans-1,3-Dichloropropene	ND	ug/kg	7.5					
cis-1,3-Dichloropropene	ND	ug/kg	5.0					
Bromoform	ND	ug/kg	5.0					
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0					
Benzene	ND	ug/kg	5.0					
Toluene	ND	ug/kg	7.5					
Ethylbenzene	ND	ug/kg	5.0					
Chloromethane	ND	ug/kg	50.					
Bromomethane	ND	ug/kg	10.					
Vinyl chloride	ND	ug/kg	18.					
Chloroethane	ND	ug/kg	10.					
1,1-Dichloroethene	ND	ug/kg	7.5					
trans-1,2-Dichloroethene	ND	ug/kg	7.5					
Trichloroethene	ND	ug/kg	5.0					
1,2-Dichlorobenzene	ND	ug/kg	50.					
1,3-Dichlorobenzene	ND	ug/kg	50.					
1,4-Dichlorobenzene	ND	ug/kg	50.					
Methyl tert butyl ether	ND	ug/kg	50.					
Xylenes	ND	ug/kg	5.0					
cis-1,2-Dichloroethene	ND	ug/kg	5.0					
Dibromomethane	ND	ug/kg	50.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507726-06
9510031-06A

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	12-Oct	12-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	50.					
Iodomethane	ND	ug/kg	50.					
1,2,3-Trichloropropane	ND	ug/kg	50.					
Styrene	ND	ug/kg	5.0					
Dichlorodifluoromethane	ND	ug/kg	50.					
Acetone	ND	ug/kg	50.					
Carbon Disulfide	ND	ug/kg	50.					
2-Butanone	ND	ug/kg	23.					
Vinyl Acetate	ND	ug/kg	50.					
4-Methyl-2-pentanone	ND	ug/kg	50.					
2-Hexanone	ND	ug/kg	50.					
Ethyl methacrylate	ND	ug/kg	50.					
Acrolein	ND	ug/kg	130					
Acrylonitrile	ND	ug/kg	50.					
Bromochloromethane	ND	ug/kg	25.					
2,2-Dichloropropane	ND	ug/kg	25.					
1,2-Dibromoethane	ND	ug/kg	25.					
1,3-Dichloropropane	ND	ug/kg	25.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	25.					
Bromobenzene	ND	ug/kg	25.					
-Butylbenzene	ND	ug/kg	25.					
ec-Butylbenzene	ND	ug/kg	25.					
tert-Butylbenzene	ND	ug/kg	25.					
o-Chlorotoluene	ND	ug/kg	25.					
p-Chlorotoluene	ND	ug/kg	25.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	25.					
Hexachlorobutadiene	ND	ug/kg	25.					
Isopropylbenzene	ND	ug/kg	25.					
p-Isopropyltoluene	ND	ug/kg	25.					
Naphthalene	ND	ug/kg	25.					
n-Propylbenzene	ND	ug/kg	25.					
1,2,3-Trichlorobenzene	ND	ug/kg	25.					
1,2,4-Trichlorobenzene	ND	ug/kg	25.					
1,3,5-Trimethylbenzene	ND	ug/kg	25.					
1,2,4-Trimethylbenzene	ND	ug/kg	25.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	25.					
Ethyl ether	ND	ug/kg	130					
SURROGATE RECOVERY								
Toluene-d8	101.	%						
4-Bromofluorobenzene	99.0	%						
Dibromofluoromethane	99.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507726-07
9510031-09A
Sample Matrix: SOLID

Date Collected: 03-OCT-95
Date Received : 10-OCT-95
Date Reported : 16-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	83.	%	0.10	3	2540B		16-Oct	ST
Volatile Organics by GC/MS				1	8260	12-Oct	12-Oct	DB
Methylene chloride	ND	ug/kg	34.					
1,1-Dichloroethane	ND	ug/kg	7.5					
Chloroform	ND	ug/kg	7.5					
Carbon tetrachloride	ND	ug/kg	5.0					
1,2-Dichloropropane	ND	ug/kg	18.					
Dibromochloromethane	ND	ug/kg	5.0					
1,1,2-Trichloroethane	ND	ug/kg	7.5					
`-Chloroethylvinyl ether	ND	ug/kg	50.					
.etrachloroethene	ND	ug/kg	7.5					
Chlorobenzene	ND	ug/kg	18.					
Trichlorofluoromethane	ND	ug/kg	25.					
1,2-Dichloroethane	ND	ug/kg	7.5					
1,1,1-Trichloroethane	ND	ug/kg	5.0					
Bromodichloromethane	ND	ug/kg	5.0					
trans-1,3-Dichloropropene	ND	ug/kg	7.5					
cis-1,3-Dichloropropene	ND	ug/kg	5.0					
Bromoform	ND	ug/kg	5.0					
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0					
Benzene	ND	ug/kg	5.0					
Toluene	ND	ug/kg	7.5					
Ethylbenzene	ND	ug/kg	5.0					
Chloromethane	ND	ug/kg	50.					
Bromomethane	ND	ug/kg	10.					
Vinyl chloride	ND	ug/kg	18.					
Chloroethane	ND	ug/kg	10.					
1,1-Dichloroethene	ND	ug/kg	7.5					
trans-1,2-Dichloroethene	ND	ug/kg	7.5					
Trichloroethene	ND	ug/kg	5.0					
1,2-Dichlorobenzene	ND	ug/kg	50.					
1,3-Dichlorobenzene	ND	ug/kg	50.					
1,4-Dichlorobenzene	ND	ug/kg	50.					
Methyl tert butyl ether	ND	ug/kg	50.					
Xylenes	ND	ug/kg	5.0					
cis-1,2-Dichloroethene	ND	ug/kg	5.0					
Dibromomethane	ND	ug/kg	50.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507726-07
9510031-09A

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	12-Oct	12-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	50.					
Iodomethane	ND	ug/kg	50.					
1,2,3-Trichloropropane	ND	ug/kg	50.					
Styrene	ND	ug/kg	5.0					
Dichlorodifluoromethane	ND	ug/kg	50.					
Acetone	ND	ug/kg	50.					
Carbon Disulfide	ND	ug/kg	50.					
2-Butanone	ND	ug/kg	23.					
Vinyl Acetate	ND	ug/kg	50.					
4-Methyl-2-pentanone	ND	ug/kg	50.					
2-Hexanone	ND	ug/kg	50.					
Ethyl methacrylate	ND	ug/kg	50.					
Acrolein	ND	ug/kg	130					
Acrylonitrile	ND	ug/kg	50.					
Bromochloromethane	ND	ug/kg	25.					
2,2-Dichloropropane	ND	ug/kg	25.					
1,2-Dibromoethane	ND	ug/kg	25.					
1,3-Dichloropropane	ND	ug/kg	25.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	25.					
Bromobenzene	ND	ug/kg	25.					
n-Butylbenzene	ND	ug/kg	25.					
sec-Butylbenzene	ND	ug/kg	25.					
tert-Butylbenzene	ND	ug/kg	25.					
o-Chlorotoluene	ND	ug/kg	25.					
p-Chlorotoluene	ND	ug/kg	25.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	25.					
Hexachlorobutadiene	ND	ug/kg	25.					
Isopropylbenzene	ND	ug/kg	25.					
p-Isopropyltoluene	ND	ug/kg	25.					
Naphthalene	ND	ug/kg	25.					
n-Propylbenzene	ND	ug/kg	25.					
1,2,3-Trichlorobenzene	ND	ug/kg	25.					
1,2,4-Trichlorobenzene	ND	ug/kg	25.					
1,3,5-Trimethylbenzene	ND	ug/kg	25.					
1,2,4-Trimethylbenzene	ND	ug/kg	25.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	25.					
Ethyl ether	ND	ug/kg	130					
SURROGATE RECOVERY								
Toluene-d8	107.	%						
4-Bromofluorobenzene	100.	%						
Dibromofluoromethane	107.	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507726-08
9510031-10A
Sample Matrix: SOLID

Date Collected: 03-OCT-95
Date Received : 10-OCT-95
Date Reported : 16-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	84.	%	0.10	3	2540B		16-Oct	ST
Volatile Organics by GC/MS				1	8260	12-Oct	12-Oct	DB
Methylene chloride	ND	ug/kg	34.					
1,1-Dichloroethane	ND	ug/kg	7.5					
Chloroform	ND	ug/kg	7.5					
Carbon tetrachloride	ND	ug/kg	5.0					
1,2-Dichloropropane	ND	ug/kg	18.					
Dibromochloromethane	ND	ug/kg	5.0					
1,1,2-Trichloroethane	ND	ug/kg	7.5					
-Chloroethylvinyl ether	ND	ug/kg	50.					
etrachloroethene	ND	ug/kg	7.5					
Chlorobenzene	ND	ug/kg	18.					
Trichlorofluoromethane	ND	ug/kg	25.					
1,2-Dichloroethane	ND	ug/kg	7.5					
1,1,1-Trichloroethane	ND	ug/kg	5.0					
Bromodichloromethane	ND	ug/kg	5.0					
trans-1,3-Dichloropropene	ND	ug/kg	7.5					
cis-1,3-Dichloropropene	ND	ug/kg	5.0					
Bromoform	ND	ug/kg	5.0					
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0					
Benzene	ND	ug/kg	5.0					
Toluene	ND	ug/kg	7.5					
Ethylbenzene	ND	ug/kg	5.0					
Chloromethane	ND	ug/kg	50.					
Bromomethane	ND	ug/kg	10.					
Vinyl chloride	ND	ug/kg	18.					
Chloroethane	ND	ug/kg	10.					
1,1-Dichloroethene	ND	ug/kg	7.5					
trans-1,2-Dichloroethene	ND	ug/kg	7.5					
Trichloroethene	ND	ug/kg	5.0					
1,2-Dichlorobenzene	ND	ug/kg	50.					
1,3-Dichlorobenzene	ND	ug/kg	50.					
1,4-Dichlorobenzene	ND	ug/kg	50.					
Methyl tert butyl ether	ND	ug/kg	50.					
Xylenes	ND	ug/kg	5.0					
cis-1,2-Dichloroethene	ND	ug/kg	5.0					
Dibromomethane	ND	ug/kg	50.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507726-08
9510031-10A

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	12-Oct	12-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	50.					
Iodomethane	ND	ug/kg	50.					
1,2,3-Trichloropropane	ND	ug/kg	50.					
Styrene	ND	ug/kg	5.0					
Dichlorodifluoromethane	ND	ug/kg	50.					
Acetone	ND	ug/kg	50.					
Carbon Disulfide	ND	ug/kg	50.					
2-Butanone	ND	ug/kg	23.					
Vinyl Acetate	ND	ug/kg	50.					
4-Methyl-2-pentanone	ND	ug/kg	50.					
2-Hexanone	ND	ug/kg	50.					
Ethyl methacrylate	ND	ug/kg	50.					
Acrolein	ND	ug/kg	130					
Acrylonitrile	ND	ug/kg	50.					
Bromochloromethane	ND	ug/kg	25.					
2,2-Dichloropropane	ND	ug/kg	25.					
1,2-Dibromoethane	ND	ug/kg	25.					
1,3-Dichloropropane	ND	ug/kg	25.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	25.					
Bromobenzene	ND	ug/kg	25.					
-Butylbenzene	ND	ug/kg	25.					
ec-Butylbenzene	ND	ug/kg	25.					
tert-Butylbenzene	ND	ug/kg	25.					
o-Chlorotoluene	ND	ug/kg	25.					
p-Chlorotoluene	ND	ug/kg	25.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	25.					
Hexachlorobutadiene	ND	ug/kg	25.					
Isopropylbenzene	ND	ug/kg	25.					
p-Isopropyltoluene	ND	ug/kg	25.					
Naphthalene	ND	ug/kg	25.					
n-Propylbenzene	ND	ug/kg	25.					
1,2,3-Trichlorobenzene	ND	ug/kg	25.					
1,2,4-Trichlorobenzene	ND	ug/kg	25.					
1,3,5-Trimethylbenzene	ND	ug/kg	25.					
1,2,4-Trimethylbenzene	ND	ug/kg	25.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	25.					
Ethyl ether	ND	ug/kg	130					
SURROGATE RECOVERY								
Toluene-d8	92.0	%						
4-Bromofluorobenzene	86.0	%						
Dibromofluoromethane	90.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507726-09
9510031-11A
Sample Matrix: SOLID

Date Collected: 03-OCT-95
Date Received : 10-OCT-95
Date Reported : 16-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	80.	%	0.10	3	2540B		16-Oct	ST
Volatile Organics by GC/MS				1	8260	13-Oct	13-Oct	DB
Methylene chloride	ND	ug/kg	25.					
1,1-Dichloroethane	ND	ug/kg	7.5					
Chloroform	ND	ug/kg	7.5					
Carbon tetrachloride	ND	ug/kg	5.0					
1,2-Dichloropropane	ND	ug/kg	18.					
Dibromochloromethane	ND	ug/kg	5.0					
1,1,2-Trichloroethane	ND	ug/kg	7.5					
-Chloroethylvinyl ether	ND	ug/kg	50.					
etrachloroethene	68.	ug/kg	7.5					
Chlorobenzene	ND	ug/kg	18.					
Trichlorofluoromethane	ND	ug/kg	25.					
1,2-Dichloroethane	ND	ug/kg	7.5					
1,1,1-Trichloroethane	ND	ug/kg	5.0					
Bromodichloromethane	ND	ug/kg	5.0					
trans-1,3-Dichloropropene	ND	ug/kg	7.5					
cis-1,3-Dichloropropene	ND	ug/kg	5.0					
Bromoform	ND	ug/kg	5.0					
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0					
Benzene	ND	ug/kg	5.0					
Toluene	ND	ug/kg	7.5					
Ethylbenzene	ND	ug/kg	5.0					
Chloromethane	ND	ug/kg	50.					
Bromomethane	ND	ug/kg	10.					
Vinyl chloride	ND	ug/kg	18.					
Chloroethane	ND	ug/kg	10.					
1,1-Dichloroethene	ND	ug/kg	7.5					
trans-1,2-Dichloroethene	ND	ug/kg	7.5					
Trichloroethene	ND	ug/kg	5.0					
1,2-Dichlorobenzene	ND	ug/kg	50.					
1,3-Dichlorobenzene	ND	ug/kg	50.					
1,4-Dichlorobenzene	ND	ug/kg	50.					
Methyl tert butyl ether	ND	ug/kg	50.					
Xylenes	ND	ug/kg	5.0					
cis-1,2-Dichloroethene	ND	ug/kg	5.0					
Dibromomethane	ND	ug/kg	50.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507726-09
9510031-11A

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	13-Oct	13-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	50.					
Iodomethane	ND	ug/kg	50.					
1,2,3-Trichloropropane	ND	ug/kg	50.					
Styrene	ND	ug/kg	5.0					
Dichlorodifluoromethane	ND	ug/kg	50.					
Acetone	ND	ug/kg	50.					
Carbon Disulfide	ND	ug/kg	50.					
2-Butanone	ND	ug/kg	23.					
Vinyl Acetate	ND	ug/kg	50.					
4-Methyl-2-pentanone	ND	ug/kg	50.					
2-Hexanone	ND	ug/kg	50.					
Ethyl methacrylate	ND	ug/kg	50.					
Acrolein	ND	ug/kg	130					
Acrylonitrile	ND	ug/kg	50.					
Bromochloromethane	ND	ug/kg	25.					
2,2-Dichloropropane	ND	ug/kg	25.					
1,2-Dibromoethane	ND	ug/kg	25.					
1,3-Dichloropropane	ND	ug/kg	25.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	25.					
Bromobenzene	ND	ug/kg	25.					
n-Butylbenzene	ND	ug/kg	25.					
sec-Butylbenzene	ND	ug/kg	25.					
tert-Butylbenzene	ND	ug/kg	25.					
o-Chlorotoluene	ND	ug/kg	25.					
p-Chlorotoluene	ND	ug/kg	25.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	25.					
Hexachlorobutadiene	ND	ug/kg	25.					
Isopropylbenzene	ND	ug/kg	25.					
p-Isopropyltoluene	ND	ug/kg	25.					
Naphthalene	ND	ug/kg	25.					
n-Propylbenzene	ND	ug/kg	25.					
1,2,3-Trichlorobenzene	ND	ug/kg	25.					
1,2,4-Trichlorobenzene	ND	ug/kg	25.					
1,3,5-Trimethylbenzene	ND	ug/kg	25.					
1,2,4-Trimethylbenzene	ND	ug/kg	25.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	25.					
Ethyl ether	ND	ug/kg	130					
SURROGATE RECOVERY								
Toluene-d8	100.	%						
4-Bromofluorobenzene	89.0	%						
Dibromofluoromethane	104.	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

Quanterra Incorporated
450 William Pitt Way
Pittsburgh, Pennsylvania 15238

412 826-5477 Telephone
412 826-5571 Fax

ANALYTICAL REPORT

PROJECT NO. 9510031

CLEAN HARBOR

MICHAEL J. WEDGE

CLEAN HARBORS ANALYTICAL

QUANTERRA INCORPORATED

Adrinnia Washington
Project Manager

October 12, 1995

Quanterra
Environmental Services

NARRATIVE

The following report contains the analytical results for samples submitted to Quanterra Incorporated. The samples were received into the laboratory in accordance with documented sample acceptance procedures.

Quanterra utilizes USEPA approved methods and instrumentation in all analytical work. The methods used for the analyses presented in this study can be found on the following pages.

A Quality Control Section, containing a summary of QA/QC data for these analyses, is included at the end of the report.

The following codes are utilized in various analyses of this report:

ND	(None Detected)
DIL	(Diluted Out)
MI	(Matrix Interference)
NEG	(Negative)
J	(Detected, but below quantitation limit; estimated value)
B	(Compounds detected in method blank associated with this sample)
W	(Post digestion spike recovery fell between 40 - 85 %)
S	(Sample result determined by the Method of Standard Additions)
+	(Sample result determined by the Method of Standard Additions and the correlation coefficient was less than 0.995)

Quanterra
Environmental Services

CASE NARRATIVE

Due to the matrix, several samples were diluted and analyzed. As a result of the dilutions surrogates are outside of QC limits.

Quanterra
Environmental Services

ANALYTICAL METHODS SUMMARY

Parameters	Methods
Polynuclear Aromatic Hydrocarbons	SW846 8310
Hydrocarbons	
Solids, Total (TS)	MCAWW 160.3 MODIFIED

References:

MCAWW Methods for Chemical Analysis of Water and Wastes, EMSL: Cincinnati, OH: March 1983 and subsequent revisions

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, September, 1986 and subsequent revisions

Quanterra
Environmental Services

SAMPLE SUMMARY

The analytical results of the samples listed below are presented on the following pages.

WO #	LABORATORY ID	SAMPLE IDENTIFICATION	DATE/TIME SAMPLED
A5NWD	C5J050008-001	9510031-01Q	10/02/95
A5NWF	C5J050008-002	9510031-02Q	10/02/95
A5NWG	C5J050008-003	9510031-03Q	10/02/95
A5NWH	C5J050008-004	9510031-04Q	10/02/95
A5NWJ	C5J050008-005	9510031-05Q	10/03/95
A5NWK	C5J050008-006	9510031-06Q	10/03/95
A5NWL	C5J050008-007	9510031-09Q	10/03/95
A5NWM	C5J050008-008	9510031-10Q	10/03/95
A5NWN	C5J050008-009	9510031-11Q	10/03/95

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

9510031-01Q

WO #: A5NWD101
LAB #: C5J050008-001
MATRIX: SOLID
DILUTION FACTOR: 1.00

DATE SAMPLED: 10/02/95
TIME SAMPLED:
DATE RECEIVED: 10/05/95

- - - - - - - - - - - - - - - - - - REQUESTED PARAMETERS - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	**45**	**41**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Acenaphthylene	ND	41	SW846 8310	10/06-10/08/95	5279025
Acenaphthene	ND	41	SW846 8310	10/06-10/08/95	5279025
Fluorene	ND	8.4	SW846 8310	10/06-10/08/95	5279025
Phenanthrene	**28**	**21**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Anthracene	ND	21	SW846 8310	10/06-10/08/95	5279025
Fluoranthene	**41**	**8.4**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Pyrene	**29**	**8.4**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Benzo(a)anthracene	**16**	**0.84**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Chrysene	**23**	**6.3**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Benzo(b)fluoranthene	**18**	**0.84**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Benzo(k)fluoranthene	**8.8**	**0.84**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Benzo(a)pyrene	**18**	**0.84**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Indeno(1,2,3-cd)pyrene	**7.0**	**2.1**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Dibenzo(a,h)anthracene	**1.6**	**1.3**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Benzo(g,h,i)perylene	**16**	**2.1**	**SW846 8310**	**10/06-10/08/95**	**5279025**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	61	(36 - 144)
2-Fluorobiphenyl	59	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510031-01Q

WO #: A5NWD
LAB #: C5J050008-001
MATRIX: SOLID

DATE SAMPLED: 10/02/95
TIME SAMPLED:
DATE RECEIVED: 10/05/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**79.6**		**%**	**MCAWW 160.3 M**	**10/05/95**	**5279015**

NOTE: DRY WEIGHT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510031-02Q

WO #: A5NWF101
LAB #: C5J050008-002
MATRIX: SOLID
DILUTION FACTOR: 2.00

DATE SAMPLED: 10/02/95
TIME SAMPLED:
DATE RECEIVED: 10/05/95

- - - - - - - - - - - - - - - - - - REQUESTED PARAMETERS - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	78	SW846 8310	10/06-10/08/95	5279025
Acenaphthylene	ND	78	SW846 8310	10/06-10/08/95	5279025
Acenaphthene	ND	78	SW846 8310	10/06-10/08/95	5279025
Fluorene	ND	16	SW846 8310	10/06-10/08/95	5279025
Phenanthrene	**65**	**40**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Anthracene	ND	40	SW846 8310	10/06-10/08/95	5279025
Fluoranthene	**100**	**16**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Pyrene	**100**	**16**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Benzo(a)anthracene	**44**	**1.6**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Chrysene	**59**	**12**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Benzo(b)fluoranthene	**44**	**1.6**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Benzo(k)fluoranthene	**22**	**1.6**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Benzo(a)pyrene	**60**	**1.6**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Indeno(1,2,3-cd)pyrene	**14**	**4.0**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Dibenzo(a,h)anthracene	**10**	**2.4**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Benzo(g,h,i)perylene	**64**	**4.0**	**SW846 8310**	**10/06-10/08/95**	**5279025**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	108	(36 - 144)
2-Fluorobiphenyl	181(MI)*	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT
*** SURROGATES OUT OF CONTROL**

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510031-02Q

WO #: A5NWF
LAB #: C5J050008-002
MATRIX: SOLID

DATE SAMPLED: 10/02/95
TIME SAMPLED:
DATE RECEIVED: 10/05/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**84.5**		**%**	**MCAWW 160.3 M**	**10/05/95**	**5279015**

NOTE: DRY WEIGHT

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

9510031-03Q

WO #: A5NWG101
LAB #: C5J050008-003
MATRIX: SOLID
DILUTION FACTOR: 40.00

DATE SAMPLED: 10/02/95
TIME SAMPLED:
DATE RECEIVED: 10/05/95

- - - - - - - - - - - - - - - - - - REQUESTED PARAMETERS - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	1,500	SW846 8310	10/06-10/09/95	5279025
Acenaphthylene	ND	1,500	SW846 8310	10/06-10/09/95	5279025
Acenaphthene	ND	1,500	SW846 8310	10/06-10/09/95	5279025
Fluorene	**300**	**300**	**SW846 8310**	**10/06-10/09/95**	**5279025**
Phenanthrene	**890**	**750**	**SW846 8310**	**10/06-10/09/95**	**5279025**
Anthracene	ND	750	SW846 8310	10/06-10/09/95	5279025
Fluoranthene	**820**	**300**	**SW846 8310**	**10/06-10/09/95**	**5279025**
Pyrene	**410(MI)**	**300**	**SW846 8310**	**10/06-10/09/95**	**5279025**
Benzo(a)anthracene	**240**	**30**	**SW846 8310**	**10/06-10/09/95**	**5279025**
Chrysene	**380**	**220**	**SW846 8310**	**10/06-10/09/95**	**5279025**
Benzo(b)fluoranthene	**300**	**30**	**SW846 8310**	**10/06-10/09/95**	**5279025**
Benzo(k)fluoranthene	**140**	**30**	**SW846 8310**	**10/06-10/09/95**	**5279025**
Benzo(a)pyrene	**240**	**30**	**SW846 8310**	**10/06-10/09/95**	**5279025**
Indeno(1,2,3-cd)pyrene	ND	75	SW846 8310	10/06-10/09/95	5279025
Dibenzo(a,h)anthracene	ND	44	SW846 8310	10/06-10/09/95	5279025
Benzo(g,h,i)perylene	**80**	**75**	**SW846 8310**	**10/06-10/09/95**	**5279025**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	DIL	(36 - 144)
2-Fluorobiphenyl	DIL	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510031-03Q

WO #: A5NWG
LAB #: C5J050008-003
MATRIX: SOLID

DATE SAMPLED: 10/02/95
TIME SAMPLED:
DATE RECEIVED: 10/05/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**90.5**		**%**	**MCAWW 160.3 M**	**10/05/95**	**5279015**

NOTE: DRY WEIGHT

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

9510031-04Q

WO #: A5NWH101
LAB #: C5J050008-004
MATRIX: SOLID
DILUTION FACTOR: 10.00

DATE SAMPLED: 10/02/95
TIME SAMPLED:
DATE RECEIVED: 10/05/95

REQUESTED PARAMETERS

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	400	SW846 8310	10/06-10/10/95	5279025
Acenaphthylene	ND	400	SW846 8310	10/06-10/10/95	5279025
Acenaphthene	ND	400	SW846 8310	10/06-10/10/95	5279025
Fluorene	**120**	**81**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Phenanthrene	**570**	**210**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Anthracene	ND	210	SW846 8310	10/06-10/10/95	5279025
Fluoranthene	**560**	**81**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Pyrene	**410**	**81**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Benzo(a)anthracene	**210**	**8.1**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Chrysene	**700**	**61**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Benzo(b)fluoranthene	**290**	**8.1**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Benzo(k)fluoranthene	**120**	**8.1**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Benzo(a)pyrene	**320**	**8.1**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Indeno(1,2,3-cd)pyrene	**32(MI)**	**21**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Dibenzo(a,h)anthracene	**19**	**12**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Benzo(g,h,i)perylene	**190**	**21**	**SW846 8310**	**10/06-10/10/95**	**5279025**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	DIL	(36 - 144)
2-Fluorobiphenyl	DIL	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510031-04Q

WO #: A5NWH
LAB #: C5J050008-004
MATRIX: SOLID

DATE SAMPLED: 10/02/95
TIME SAMPLED:
DATE RECEIVED: 10/05/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**82.4**		**%**	**MCAWW 160.3 M**	**10/05/95**	**5279015**

NOTE: DRY WEIGHT

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

9510031-05Q

WO #: A5NWJ101
LAB #: C5J050008-005
MATRIX: SOLID
DILUTION FACTOR: 6.00

DATE SAMPLED: 10/03/95
TIME SAMPLED:
DATE RECEIVED: 10/05/95

- - - - - - - - - - - - - - - - - - REQUESTED PARAMETERS - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	230	SW846 8310	10/06-10/08/95	5279025
Acenaphthylene	ND	230	SW846 8310	10/06-10/08/95	5279025
Acenaphthene	ND	230	SW846 8310	10/06-10/08/95	5279025
Fluorene	ND	47	SW846 8310	10/06-10/08/95	5279025
Phenanthrene	**200**	**120**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Anthracene	ND	120	SW846 8310	10/06-10/08/95	5279025
Fluoranthene	**100**	**47**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Pyrene	**90**	**47**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Benzo(a)anthracene	**34**	**4.7**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Chrysene	**41**	**35**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Benzo(b)fluoranthene	**37**	**4.7**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Benzo(k)fluoranthene	**16**	**4.7**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Benzo(a)pyrene	**37**	**4.7**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Indeno(1,2,3-cd)pyrene	**15**	**12**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Dibenzo(a,h)anthracene	ND	7.1	SW846 8310	10/06-10/08/95	5279025
Benzo(g,h,i)perylene	**53**	**12**	**SW846 8310**	**10/06-10/08/95**	**5279025**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	DIL	(36 - 144)
2-Fluorobiphenyl	DIL	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

MW-11 (SS-3)

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510031-05Q

WO #: A5NWJ
LAB #: C5J050008-005
MATRIX: SOLID

DATE SAMPLED: 10/03/95
TIME SAMPLED:
DATE RECEIVED: 10/05/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**84.9**		**%**	**MCAWW 160.3 M**	**10/05/95**	**5279015**

NOTE: DRY WEIGHT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510031-06Q

WO #: A5NWK101
LAB #: C5J050008-006
MATRIX: SOLID
DILUTION FACTOR: 1.00

DATE SAMPLED: 10/03/95
TIME SAMPLED:
DATE RECEIVED: 10/05/95

- - - - - - - - - - - - - - - - - - REQUESTED PARAMETERS - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	40	SW846 8310	10/06-10/10/95	5279025
Acenaphthylene	ND	40	SW846 8310	10/06-10/10/95	5279025
Acenaphthene	ND	40	SW846 8310	10/06-10/10/95	5279025
Fluorene	ND	8.2	SW846 8310	10/06-10/10/95	5279025
Phenanthrene	**35**	**21**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Anthracene	ND	21	SW846 8310	10/06-10/10/95	5279025
Fluoranthene	**10**	**8.2**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Pyrene	ND	8.2	SW846 8310	10/06-10/10/95	5279025
Benzo(a)anthracene	**4.1**	**0.82**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Chrysene	**7.1**	**6.1**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Benzo(b)fluoranthene	**4.3**	**0.82**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Benzo(k)fluoranthene	**2.1**	**0.82**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Benzo(a)pyrene	**5.1**	**0.82**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Indeno(1,2,3-cd)pyrene	ND	2.1	SW846 8310	10/06-10/10/95	5279025
Dibenzo(a,h)anthracene	ND	1.2	SW846 8310	10/06-10/10/95	5279025
Benzo(g,h,i)perylene	**4.5**	**2.1**	**SW846 8310**	**10/06-10/10/95**	**5279025**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	63	(36 - 144)
2-Fluorobiphenyl	62	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510031-06Q

WO #: A5NWK
LAB #: C5J050008-006
MATRIX: SOLID

DATE SAMPLED: 10/03/95
TIME SAMPLED:
DATE RECEIVED: 10/05/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**82.0**		**%**	**MCAWW 160.3 M**	**10/05/95**	**5279015**

NOTE: DRY WEIGHT

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

9510031-09Q

WO #: A5NWL101
LAB #: C5J050008-007
MATRIX: SOLID
DILUTION FACTOR: 1.00

DATE SAMPLED: 10/03/95
TIME SAMPLED:
DATE RECEIVED: 10/05/95

- - - - - - - - - - - - - - - - - - REQUESTED PARAMETERS - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	39	SW846 8310	10/06-10/10/95	5279025
Acenaphthylene	ND	39	SW846 8310	10/06-10/10/95	5279025
Acenaphthene	**70**	**39**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Fluorene	ND	7.8	SW846 8310	10/06-10/10/95	5279025
Phenanthrene	ND	20	SW846 8310	10/06-10/10/95	5279025
Anthracene	ND	20	SW846 8310	10/06-10/10/95	5279025
Fluoranthene	ND	7.8	SW846 8310	10/06-10/10/95	5279025
Pyrene	ND	7.8	SW846 8310	10/06-10/10/95	5279025
Benzo(a)anthracene	ND	0.78	SW846 8310	10/06-10/10/95	5279025
Chrysene	ND	5.8	SW846 8310	10/06-10/10/95	5279025
Benzo(b)fluoranthene	ND	0.78	SW846 8310	10/06-10/10/95	5279025
Benzo(k)fluoranthene	ND	0.78	SW846 8310	10/06-10/10/95	5279025
Benzo(a)pyrene	ND	0.78	SW846 8310	10/06-10/10/95	5279025
Indeno(1,2,3-cd)pyrene	ND	2.0	SW846 8310	10/06-10/10/95	5279025
Dibenzo(a,h)anthracene	ND	1.2	SW846 8310	10/06-10/10/95	5279025
Benzo(g,h,i)perylene	ND	2.0	SW846 8310	10/06-10/10/95	5279025

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	58	(36 - 144)
2-Fluorobiphenyl	64	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

9510031-09Q

WO #: A5NWL
LAB #: C5J050008-007
MATRIX: SOLID

DATE SAMPLED: 10/03/95
TIME SAMPLED:
DATE RECEIVED: 10/05/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**85.7**		**%**	**MCAWW 160.3 M**	**10/05/95**	**5279015**

NOTE: DRY WEIGHT

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

9510031-10Q

WO #: A5NWM101
LAB #: C5J050008-008
MATRIX: SOLID
DILUTION FACTOR: 1.00

DATE SAMPLED: 10/03/95
TIME SAMPLED:
DATE RECEIVED: 10/05/95

- - - - - - - - - - - - - - - - - - REQUESTED PARAMETERS - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	38	SW846 8310	10/06/95	5279025
Acenaphthylene	ND	38	SW846 8310	10/06/95	5279025
Acenaphthene	**42**	**38**	**SW846 8310**	**10/06/95**	**5279025**
Fluorene	ND	7.8	SW846 8310	10/06/95	5279025
Phenanthrene	ND	20	SW846 8310	10/06/95	5279025
Anthracene	ND	20	SW846 8310	10/06/95	5279025
Fluoranthene	ND	7.8	SW846 8310	10/06/95	5279025
Pyrene	ND	7.8	SW846 8310	10/06/95	5279025
Benzo(a)anthracene	ND	0.78	SW846 8310	10/06/95	5279025
Chrysene	ND	5.8	SW846 8310	10/06/95	5279025
Benzo(b)fluoranthene	ND	0.78	SW846 8310	10/06/95	5279025
Benzo(k)fluoranthene	ND	0.78	SW846 8310	10/06/95	5279025
Benzo(a)pyrene	**0.93**	**0.78**	**SW846 8310**	**10/06/95**	**5279025**
Indeno(1,2,3-cd)pyrene	ND	2.0	SW846 8310	10/06/95	5279025
Dibenzo(a,h)anthracene	ND	1.2	SW846 8310	10/06/95	5279025
Benzo(g,h,i)perylene	**2.7**	**2.0**	**SW846 8310**	**10/06/95**	**5279025**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	99	(36 - 144)
2-Fluorobiphenyl	67	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510031-10Q

WO #: A5NWM
LAB #: C5J050008-008
MATRIX: SOLID

DATE SAMPLED: 10/03/95
TIME SAMPLED:
DATE RECEIVED: 10/05/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**86.2**		**%**	**MCAWW 160.3 M**	**10/05/95**	**5279015**

NOTE: DRY WEIGHT

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

9510031-11Q

WO #: A5NWN101
LAB #: C5J050008-009
MATRIX: SOLID
DILUTION FACTOR: 1.00

DATE SAMPLED: 10/03/95
TIME SAMPLED:
DATE RECEIVED: 10/05/95

- - - - - - - - - - - - - - - - - - REQUESTED PARAMETERS - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	39	SW846 8310	10/06-10/08/95	5279025
Acenaphthylene	**52**	**39**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Acenaphthene	ND	39	SW846 8310	10/06-10/08/95	5279025
Fluorene	ND	7.8	SW846 8310	10/06-10/08/95	5279025
Phenanthrene	**59**	**20**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Anthracene	ND	20	SW846 8310	10/06-10/08/95	5279025
Fluoranthene	**41**	**7.8**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Pyrene	**11**	**7.8**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Benzo(a)anthracene	**9.5**	**0.78**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Chrysene	**14**	**5.9**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Benzo(b)fluoranthene	**20**	**0.78**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Benzo(k)fluoranthene	**6.8**	**0.78**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Benzo(a)pyrene	**9.7**	**0.78**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Indeno(1,2,3-cd)pyrene	ND	2.0	SW846 8310	10/06-10/08/95	5279025
Dibenzo(a,h)anthracene	ND	1.2	SW846 8310	10/06-10/08/95	5279025
Benzo(g,h,i)perylene	**22**	**2.0**	**SW846 8310**	**10/06-10/08/95**	**5279025**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	76	(36 - 144)
2-Fluorobiphenyl	62	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510031-11Q

WO #: A5NWN
LAB #: C5J050008-009
MATRIX: SOLID

DATE SAMPLED: 10/03/95
TIME SAMPLED:
DATE RECEIVED: 10/05/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**85.4**		**%**	**MCAWW 160.3 M**	**10/05/95**	**5279015**

NOTE: DRY WEIGHT

Quanterra
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Services

QUALITY CONTROL SECTION

Quanterra
Environmental Services

QUALITY ASSURANCE/QUALITY CONTROL PROGRAM SUMMARY

Quanterra Incorporated considers continuous analytical performance evaluations to be an integral portion of the data package, and routinely includes the pertinent QA/QC data associated with various analytical reports. Brief discussions of the various QA/QC procedures utilized to measure acceptable method and matrix performance follow.

SURROGATE SPIKE RECOVERY EVALUATIONS

Known concentrations of designated surrogate spikes, consisting of a number of similar, non-method compounds or method compounds analogues, are added, as appropriate, to routine GC and GC/MS sample fractions prior to extraction and analysis. The percent recoveries calculated from the subsequent spike recovery data is displayed alongside acceptable analytical method performance limits at the bottom of each applicable analytical result report sheet.

NOTE: Acceptable method performance for Base/Neutral Acid extractables is indicated by two (2) of three (3) surrogates for each fraction with a minimum recovery of ten percent (10%) each. For Pesticides, one (1) of two (2) surrogates meeting performance criteria is acceptable.

LABORATORY ANALYTICAL METHOD BLANK EVALUATIONS

Laboratory analytical method blanks are systematically prepared and analyzed in order to continuously evaluate the system interferences and background contamination levels associated with each analytical method. These method blanks include all aspects of actual laboratory method analysis (chemical reagents, glassware, etc.) substituting laboratory reagent water or solid for actual sample. The method blank must not contain any analytes above the reported detection limit. The following common laboratory contaminants are exceptions to this rule, provided they are not present at a greater than five times the detection limit.

Volatiles	Semi-volatiles
Methylene chloride	Dimethyl phthalate
2-Butanone	Diethyl phthalate
Acetone	Di-n-butyl phthalate
	Butyl benzyl phthalate
	Bis (2-ethylhexyl) phthalate

A minimum of five percent (5%) of all laboratory analyses are laboratory analytical method blanks.

QUALITY ASSURANCE/QUALITY CONTROL PROGRAM SUMMARY (CONT)

LABORATORY ANALYTICAL METHOD CHECK SAMPLE EVALUATIONS

Known concentrations of designated matrix spikes (actual analytical method compounds) are added to a laboratory reagent blank prior to extraction and analysis. Percent recovery determinations demonstrate the performance of the analytical method. Failure of a check sample to meet established laboratory recovery criteria is cause to stop the analysis until the problem is resolved. All compounds must meet laboratory recovery criteria. A minimum of five percent (5%) of all laboratory analyses are laboratory analytical method check samples.

MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD) RECOVERY EVALUATION

Known concentration of designated matrix spikes (actual analytical method compounds) are added to two of three separate aliquots of a sequentially predetermined sample prior to extraction and analysis. Percent recovery determinations are calculated from both of the spiked samples by comparison to the actual values generated from the unspiked sample. These percent recovery determinations indicate the accuracy of the analysis at recovering actual analytical method compounds from the matrix. Actual percent recovery data is displayed alongside the acceptable analytical method performance limits in the QA/QC section of the report. The MS/MSD are considered in control when the associated check sample has been found to be acceptable. A minimum of ten percent (10%) of all analyses are MS/MSD quality control samples.

EXAMPLE

COMPOUND	SAMPLE CONCENTRATION	MS % RECOVERY	MSD % RECOVERY	QC LIMITS[1] RECOVERY
4-4'-DDT	0	95	112	(66-119)
Benzene	10	86	93	(39-150)
compound name	sample result	1st % recovery	2nd % recovery	acceptable method limits

[1]QC limits are statistically derived from historical laboratory data. Where insufficient data exists to statistically derive these limits, they will be labelled "advisory". In this case, they are based on the best available technical information.

For metals analyses, the recoveries of the MS/MSD must be within the range of 80-120%. If they do not meet this criteria, but the RPD of the two results is <20% OR the absolute difference is less than 10% when the recoveries are below 50%, no corrective action is required. If these criteria are not met, the sample with its MS/MSD is reprepared and reanalyzed once more.

Quanterra Environmental Services

INTRA-LAB BLANK REPORT

LAB #: C5J060000-025

- - - - - - - - - - - - - - - POLYNUCLEAR AROMATIC HYDROCARBONS - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	PREPARATION - ANALYSIS DATE	QC BATCH
Acenaphthene	ND	33	10/06/95	5279025
Acenaphthylene	ND	33	10/06/95	5279025
Anthracene	ND	17	10/06/95	5279025
Benzo(a)anthracene	ND	0.67	10/06/95	5279025
Benzo(b)fluoranthene	ND	0.67	10/06/95	5279025
Benzo(k)fluoranthene	ND	0.67	10/06/95	5279025
Benzo(g,h,i)perylene	ND	1.7	10/06/95	5279025
Benzo(a)pyrene	ND	0.67	10/06/95	5279025
Chrysene	ND	5.0	10/06/95	5279025
Fluoranthene	ND	6.7	10/06/95	5279025
Fluorene	ND	6.7	10/06/95	5279025
Indeno(1,2,3-cd)pyrene	ND	1.7	10/06/95	5279025
Naphthalene	ND	33	10/06/95	5279025
Phenanthrene	ND	17	10/06/95	5279025
Pyrene	ND	6.7	10/06/95	5279025
Dibenzo(a,h)anthracene	ND	1.0	10/06/95	5279025

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	82	(36 - 144)
2-Fluorobiphenyl	72	(47 - 143)

NOTE:

ND (NONE DETECTED)

Quanterra
Environmental Services

CHECK SAMPLE REPORT

QC BATCH: 5279025
LAB #: C5J060000-025 C
DILUTION FACTOR: 1.00

PREPARATION DATE: 10/06/95
DATE ANALYZED: 10/06/95

- - - - - - - - - - - - - - - Polynuclear Aromatic Hydrocarbons - - - - - - - - - - - - - -

COMPOUND	SPIKE PERCENT RECOVERY	Q/C LIMITS
Naphthalene	103	(52-163)
Phenanthrene	76	(67-123)
Fluoranthene	93	(65-125)
Chrysene	85	(74-124)
Benzo(a)pyrene	97	(48-129)
Indeno(1,2,3-cd)pyrene	97	(63-133)

Quanterra
Environmental Services

MATRIX SPIKE REPORT

QC BATCH: 5279025
LAB #: C5J050008-008 S
MATRIX: SOLID
DILUTION FACTOR: 1.00

WO #: A5NWM
PREPARATION DATE: 10/06/95
DATE ANALYZED: 10/06/95

- **HPLC** -

COMPOUND	SPIKE PERCENT RECOVERY	SPIKE/DUP PERCENT RECOVERY	Q/C LIMITS	RPD	RPD LIMIT
Naphthalene	113	100	(8.0-200)	13	(0-66)
Phenanthrene	78	69	(38-137)	12	(0-34)
Fluoranthene	93	85	(47-132)	8.9	(0-23)
Chrysene	84	79	(41-148)	7.0	(0-29)
Benzo(a)pyrene	87	80	(48-120)	9.2	(0-19)
Indeno(1,2,3-cd)pyrene	96	89	(53-132)	7.4	(0-24)

Calculations are performed before rounding to avoid round-off errors in calculated results

CleanHarbors

QUALITY CONTROL

REPORT OF ANALYSIS

CHES LAB. NO. 9510031

The attached quality control data were generated during the analysis of these samples. All results have been generated in accordance with the procedures as stated in the Clean Harbors Environmental Services, Inc. Quality Assurance/Quality Control Manual and pertinent standard operating procedures, which are available for review. The attached has been submitted for informational purposes only.

CleanHarbors

BLANK ANALYSIS

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	ND	10/06/95	10/11/95	**

Notes:

ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual; November 1990.

Evaluation:
Hydrocarbon quantitative range:
C10 - C38

Hydrocarbon qualitative identification:

No significant hydrocarbons observed.

QA/QC Surrogate Recoveries:		Acceptance Criteria
Ortho-terphenyl	76 %	50 - 150%

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9510031

BLANK ANALYSIS

METALS

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	0.1	ND	10/06/95	10/09/95	3005/6010(c)
Arsenic - Total	0.2	ND	10/06/95	10/10/95	3050/6010(c)
Beryllium - Total	0.001	ND	10/06/95	10/10/95	3050/6010(c)
Cadmium - Total	0.01	ND	10/06/95	10/10/95	3050/6010(c)
Chromium - Total	0.03	ND	10/06/95	10/10/95	3050/6010(c)
Copper - Total	0.03	ND	10/06/95	10/10/95	3050/6010(c)
Lead - Total	0.1	ND	10/06/95	10/10/95	3050/6010(c)
Mercury - Total	0.0002	ND	10/06/95	10/10/95	7471(c)
Nickel - Total	0.03	ND	10/06/95	10/10/95	3050/6010(c)
Selenium - Total	0.2	ND	10/06/95	10/10/95	3050/6010(c)
Silver - Total	0.02	ND	10/06/95	10/09/95	3005/6010(c)
Thallium - Total	0.3	ND	10/06/95	10/10/95	3050/6010(c)
Zinc - Total	0.04	ND	10/06/95	10/10/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9510031

BLANK ANALYSIS

METALS

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	0.1	ND	10/09/95	10/11/95	3005/6010(c)
Arsenic - Total	0.2	ND	10/09/95	10/10/95	3050/6010(c)
Beryllium - Total	0.001	0.001	10/09/95	10/10/95	3050/6010(c)
Cadmium - Total	0.01	ND	10/09/95	10/10/95	3050/6010(c)
Chromium - Total	0.03	ND	10/09/95	10/10/95	3050/6010(c)
Copper - Total	0.03	ND	10/09/95	10/10/95	3050/6010(c)
Lead - Total	0.1	ND	10/09/95	10/10/95	3050/6010(c)
Mercury - Total	0.0002	ND	10/06/95	10/10/95	7471(c)
Nickel - Total	0.03	ND	10/09/95	10/10/95	3050/6010(c)
Selenium - Total	0.2	ND	10/09/95	10/10/95	3050/6010(c)
Silver - Total	0.02	ND	10/09/95	10/11/95	3005/6010(c)
Thallium - Total	0.3	ND	10/09/95	10/10/95	3050/6010(c)
Zinc - Total	0.04	ND	10/09/95	10/10/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9510031

BLANK ANALYSIS

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	MIA	mg/l	10/05/95	9010(c)
Cyanide, Total	0.02	ND	mg/l	10/06/95	9010(c)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight

CleanHarbors

Clean Harbors Analytical Services, Inc., 325 Wood Rd., Braintree, MA 02184 | CHAIN OF CUSTODY RECORD | Sample Custodian — (617) 849-1800 | Page of

Client: CHES | Project Name: MURPHYS WASTE OIL SERVICE | Work Order/P.O. #: EN-170 | Date: 10/3/95

Report To: JAY MCCREERY | Address: 12 MERCER ROAD, NATICK, MA | Phone #: x6399

Date Samples Collected: 10/3/95 | by: NICEWONGER | Date Samples Received:

Airbill/Bill of Lading? Y N | NOTE: Samples received unpreserved will be preserved upon arrival at CHAS. | Samples were: Preserved Unpreserved

Sample I.D.	Sampling Information: Date	Time	Station Location	Sample Matrix	VOA 8240	TPH GC/FID	PAHs by HPLC	13 P.P. TOT. METAL	TOT. CYANIDE		SIEVE ANALYSIS		# of con.	CHAS Sample # PS 10/3 9510031
B-1	10/2		SS-3	SOIL	1	1	1	1	1				2	01A, M, O, Q
B-1	10/2		SS-5		1	1	1	1	1				2	02A, M, O, Q
B-14	10/2		SS-2		1	1	1	1	1				2	03A, M, O, Q
B-14	10/2		SS-5		1	1	1	1	1				2	04A, M, O, Q
MW-11	10/3		SS-3		1	1	1	1	1		1		2	combine equal parts from 05A, M, O, Q
MW-11	10/3		SS-5		1	1	1	1	1		1		2	each sample and run for 06A, M, O, Q
MW-11	10/3		SS-6								1		1	sieve test. 07X comp 08L
B-15	10/3		SS-5		1	1	1	1	1				2	09A, M, O, Q
B-15	10/3		SS-7		1	1	1	1	1				2	10A, M, O, Q
				VOA Vial										
				Glass Bottle										
				Plastic Bottle										
				Pres.										
				Volume										

Relinquished by: [signature] Date: 10/3/95 Time: 5:45 PM

Received by: [signature] Date: 10/3/95 Time: 5:45

Relinquished by: Date: Time:

Received by: Date: Time:

Preservation Key: A — Acidified with ____ B — Filtered, C — Sample chilled, D— NaOH, E — NaThiosulfate, W — Sample Ambient, F — Other

REMARKS/COMMENTS: (Sample storage, nonstandard bottles, cautions, special instructions)

Total of 17 sample containers. Run VOAs first, then other parameters using small jar if additional sample volume needed.

Standard laboratory turnaround time is 2 weeks from date of receipt. Accelerated turnaround may be assessed a surcharge.
Accelerated turnaround requested:
Confirmed by: Surcharge:

Location of samples: B4, B9B1, Quonset

Turnaround: 24 Hrs. 48 Hrs. 1 Week 2 Weeks Other

CHI 119

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CleanHarbors

Clean Harbors Analytical Services, Inc., 325 Wood Rd., Braintree, MA 02184 | CHAIN OF CUSTODY RECORD | Sample Custodian — (617) 849-1800 | Page of

Client: CHES Project Name: MURPHY'S WASTE OIL SERVICE Work Order/P.O. #: EN-170 Date: 10/3/95

Report To: JAY MCCREELY Address: 12 MERCER RD., NATICK, MA Phone #: X6399

Date Samples Collected: 10/3/95 by: P. NICEWONGER Date Samples Received:

Airbill/Bill of Lading? Y N NOTE: Samples received unpreserved will be preserved upon arrival at CHAS. Samples were: Preserved Unpreserved

Sample I.D.	Sampling Information: Date	Time	Station Location	Sample Matrix	Analysis: VOA 8240	TPH GC/FID	PAHs by HPLC	13 P.P. TOT. MET.	TOT. CYANIDE				# of con.	CHAS Sample # PS 10/3 9510031
B-16	10/3		SS-6	SOIL	1	1	1	1	1				2	1 A, M, O, Q

	VOA Vial	Glass Bottle	Plastic Bottle	Pres.	Volume

Relinquished by: [signature] Date: 10/3/95 Time: 5:45 PM

Received by: [signature] Date: 10/3/95 Time: 5:45

Relinquished by: Date: Time:

Received by: Date: Time:

Preservation Key: A — Acidified with ____ B — Filtered, C — Sample chilled, D— NaOH, E — NaThiosulfate, W — Sample Ambient, F — Other

REMARKS/COMMENTS: (Sample storage, nonstandard bottles, cautions, special instructions)

Total of 2 sample containers. Run VOA first and then use this container if additional volume needed for other parameters.

Standard laboratory turnaround time is 2 weeks from date of receipt. Accelerated turnaround may be assessed a surcharge.
Accelerated turnaround requested:
Confirmed by: Surcharge:

Location of samples: B4, B9B1 Quarters

Turnaround: 24 Hrs. 48 Hrs. 1 Week 2 Weeks Other:

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CHI 119

CleanHarbors

Method References

(a) "Methods for Chemical Analysis of Water and Wastes," Publication EPA-600/4-79-020, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, 1979, revised March 1983.

(b) "Standard Methods for the Examination of Water and Wastewater." 18th ed., American Public Health Association, American Water Works Association, Water Pollution Control Federation, Washington, D.C., 1992.

(c) "Test Methods for Evaluating Solid Waste: Physical/Chemical methods," 3rd ed., U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, D.C., November 1986, updated July 1992 and September 1994.

(d) "The Determination of Polychlorinated Biphenyls in Transformer Fluid and Waste Oils," Publication EPA-600/4-81-045, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, September 1982.

(e) "Hazardous Waste Management System; Identification and Listing of Hazardous Waste; Toxicity Characteristic Revisions; Final Rule," Federal Register, Vol. 55, No. 126, Friday, June 29, 1990, and revision in Federal Register, Vol. 57, No. 227, Tuesday, November 24, 1992.

(f) "Guidelines Establishing Test Procedures for Analysis of Pollutants," Code of Federal Regulations, Part 136 Appendix A and Appendix B, July 1, 1993.

(g) "Methods for the Determination of Organic Compounds in Drinking Water," U.S. Environmental Protection Agency, Office of Research and Development, Washington, D.C., December 1988, revised July 1991.

(h) "The Determination of Inorganic Anions in Water by Ion Chromatography - Method 300.0," Publication EPA-600/4-84-017, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, March 1984.

(i) "Hach Water Analysis Handbook," Hach Chemical Company, Loveland, CO, 1992.

(j) "USEPA-CLP Statement of Work for Organic Analysis," Publication OLM01.0 (including revisions, U.S. Environmental Protection Agency, Contract Laboratory Program, August 1991.

(k) "Annual Book of Standards," Section 11: Water and Environmental Technology, Vols. 11.01-11.04, American Society for Testing Materials, Philadelphia, 1989 & 1991.

(l) "Annual Book of Standards," Section 5: Petroleum Products and Lubricants, Vols. 5.01, American Society for Testing Materials, Philadelphia, 1993.

(m) "Annual Book of Standards," Section 4: Construction, Vol. 4.08, American Society for Testing Materials, Philadelphia, 1993.

(n) "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods," 2nd ed., U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, D.C., July 1982, updated April 1984.

(o) "Annual Book of Standards," Section 15: Engine Coolants; Halogenated Organic Solvents, Vol. 15.05,American Society for Testing Materials, Philadelphia, 1995.

[REF-09/21/95]

CleanHarbors
ENVIRONMENTAL SERVICES, INC.
325 WOOD ROAD • BRAINTREE, MA 02184
(617) 849-1800

REPORT OF ANALYSIS

Clean Harbors Environmental Services, Inc.
12 Mercer Road
Natick, MA 01760

Project: MURPHY'S WASTE OIL SERVICE
P.O. #: EN170

Date Received: 10/03/95
CHES Lab #: 9510032

Attn: Mr. Jay McCreery

Enclosed are the results for the sample(s) delivered to our laboratory (DEP Laboratory ID# M-MA032) on the date indicated above.

The methods listed represent those methodologies which were used to develop the best analytical techniques. Analytical results and quality assurance protocols are based on these guidelines. These meet the requirements for the reporting of results under the RCRA, NPDES and Safe Drinking Water Act regulations.

Clean Harbors Environmental Services has an active program of quality assurance and quality control. The program closely follows the guidance provided in the EPA Contract Laboratory Program Statement of Work (organic and inorganic), the guidance provided in SW-846, and many other pertinent documents.

Should you have any questions concerning this work, please do not hesitate to contact me.

The information contained in this report is, to the best of my knowledge, accurate and complete.

Per/Date: Michael J. Murray 10/20/95

Michael J. Murray
Laboratory Manager

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-2, SS-3
Sample Type: Soil

CHES Lab #: 9510032-010
Date Received: 10/03/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	94	10/10/95	10/11/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-2, SS-3
Sample Type: Soil

CHES Lab #: 9510032-01M
Date Received: 10/03/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	3	ND	10/09/95	10/11/95	3005/6010(c)
Arsenic - Total	8	ND	10/09/95	10/10/95	3050/6010(c)
Beryllium - Total	0.039	ND	10/09/95	10/10/95	3050/6010(c)
Cadmium - Total	0.39	ND	10/09/95	10/10/95	3050/6010(c)
Chromium - Total	1.2	18	10/09/95	10/10/95	3050/6010(c)
Copper - Total	1.2	22	10/09/95	10/10/95	3050/6010(c)
Lead - Total	4	40	10/09/95	10/10/95	3050/6010(c)
Mercury - Total	0.0696	ND	10/10/95	10/12/95	7471(c)
Nickel - Total	1.2	ND	10/09/95	10/10/95	3050/6010(c)
Selenium - Total	8	ND	10/09/95	10/10/95	3050/6010(c)
Silver - Total	0.68	ND	10/09/95	10/11/95	3005/6010(c)
Thallium - Total	10	ND	10/09/95	10/10/95	3050/6010(c)
Zinc - Total	1.5	49	10/09/95	10/10/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.
Sample result is "ND" thus positive blank result should not adversely affect reported results.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-2, SS-3
Sample Type: Soil

CHES Lab #: 9510032-01M
Date Received: 10/03/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	2.0	ND	mg/kg	10/06/95	9010(c)
Total Solids	--	85.1	%	10/05/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-3, SS-2 (MW-7)
Sample Type: Soil

CHES Lab #: 9510032-020
Date Received: 10/03/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	230	10/10/95	10/11/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-3, SS-2 (MW-7)
Sample Type: Soil

CHES Lab #: 9510032-02M
Date Received: 10/03/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	4	ND	10/09/95	10/11/95	3005/6010(c)
Arsenic - Total	8	ND	10/09/95	10/10/95	3050/6010(c)
Beryllium - Total	0.038	ND	10/09/95	10/10/95	3050/6010(c)
Cadmium - Total	0.38	ND	10/09/95	10/10/95	3050/6010(c)
Chromium - Total	1.1	13	10/09/95	10/10/95	3050/6010(c)
Copper - Total	1.1	20	10/09/95	10/10/95	3050/6010(c)
Lead - Total	4	120	10/09/95	10/10/95	3050/6010(c)
Mercury - Total	0.0754	ND	10/10/95	10/12/95	7471(c)
Nickel - Total	1.1	ND	10/09/95	10/10/95	3050/6010(c)
Selenium - Total	8	ND	10/09/95	10/10/95	3050/6010(c)
Silver - Total	0.78	ND	10/09/95	10/11/95	3005/6010(c)
Thallium - Total	10	ND	10/09/95	10/10/95	3050/6010(c)
Zinc - Total	1.5	61	10/09/95	10/10/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-3, SS-2 (MW-7)
Sample Type: Soil

CHES Lab #: 9510032-02M
Date Received: 10/03/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	2.1	ND	mg/kg	10/10/95	9010(c)
Total Solids	--	33.7	%	10/05/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-3, SS-4 (MW-7)
Sample Type: Soil

CHES Lab #: 9510032-040
Date Received: 10/03/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	44	4,000	10/10/95	10/11/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-3, SS-4 (MW-7)
Sample Type: Soil

CHES Lab #: 9510032-04M
Date Received: 10/03/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	4	ND	10/09/95	10/11/95	3005/6010(c)
Arsenic - Total	6	ND	10/09/95	10/10/95	3050/6010(c)
Beryllium - Total	0.032	ND	10/09/95	10/10/95	3050/6010(c)
Cadmium - Total	0.32	ND	10/09/95	10/10/95	3050/6010(c)
Chromium - Total	0.95	32	10/09/95	10/10/95	3050/6010(c)
Copper - Total	0.95	19	10/09/95	10/10/95	3050/6010(c)
Lead - Total	3	240	10/09/95	10/10/95	3050/6010(c)
Mercury - Total	0.0670	0.0792	10/10/95	10/12/95	7471(c)
Nickel - Total	0.95	9.3	10/09/95	10/10/95	3050/6010(c)
Selenium - Total	6	ND	10/09/95	10/10/95	3050/6010(c)
Silver - Total	0.82	ND	10/09/95	10/11/95	3005/6010(c)
Thallium - Total	9	ND	10/09/95	10/10/95	3050/6010(c)
Zinc - Total	1.3	88	10/09/95	10/10/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-3, SS-4 (MW-7)
Sample Type: Soil

CHES Lab #: 9510032-04M
Date Received: 10/03/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	1.9	ND	mg/kg	10/10/95	9010(c)
Total Solids	--	89.0	%	10/05/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: COMP.OF B-3, SS-2,3,4,5,6 (MW-7)
Sample Type: Soil

CHES Lab #: 9510032-07L
Date Received: 10/03/95

SIEVE ANALYSIS

by ASTM Method Mod. D422

Analysis Date: 10/18/95

SIEVE NUMBER	OPENING SIZE in MM	WEIGHT %
--	9.5	18.5
4	4.75	10.3
10	2.00	9.6
20	0.850	9.4
40	0.425	10.5
60	0.250	9.7
100	0.150	8.8
200	0.075	10.8
Bottom Tray	<0.075	11.9

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

CERTIFICATE OF ANALYSIS

Client: Clean Harbors

Address: 325 Wood Road

Braintree, MA 02184

Attn: Peter Conroy

Project Number: 9510031-2

Site:

Laboratory Job Number: L9507726

Invoice Number: 77917

Date Received: 10-OCT-95

Date Reported: 16-OCT-95

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9507726-01	9510031-01A	
L9507726-02	9510031-02A	
L9507726-03	9510031-03A	
L9507726-04	9510031-04A	
L9507726-05	9510031-05A	
L9507726-06	9510031-06A	
L9507726-07	9510031-09A	
L9507726-08	9510031-10A	
L9507726-09	9510031-11A	
L9507726-10	9510032-01A	
L9507726-11	9510032-02A	
L9507726-12	9510032-04A	

Authorized by: James R. Roth

James R. Roth, PhD - Laboratory Manager

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507726-10
9510032-01A
Sample Matrix: SOLID

Date Collected: 02-OCT-95
Date Received : 10-OCT-95
Date Reported : 16-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	80.	%	0.10	3	2540B		16-Oct	ST
Volatile Organics by GC/MS				1	8260	13-Oct	13-Oct	DB
Methylene chloride	ND	ug/kg	25.					
1,1-Dichloroethane	ND	ug/kg	7.5					
Chloroform	ND	ug/kg	7.5					
Carbon tetrachloride	ND	ug/kg	5.0					
1,2-Dichloropropane	ND	ug/kg	18.					
Dibromochloromethane	ND	ug/kg	5.0					
1,1,2-Trichloroethane	ND	ug/kg	7.5					
2-Chloroethylvinyl ether	ND	ug/kg	50.					
Tetrachloroethene	ND	ug/kg	7.5					
Chlorobenzene	ND	ug/kg	18.					
Trichlorofluoromethane	ND	ug/kg	25.					
1,2-Dichloroethane	ND	ug/kg	7.5					
1,1,1-Trichloroethane	ND	ug/kg	5.0					
Bromodichloromethane	ND	ug/kg	5.0					
trans-1,3-Dichloropropene	ND	ug/kg	7.5					
cis-1,3-Dichloropropene	ND	ug/kg	5.0					
Bromoform	ND	ug/kg	5.0					
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0					
Benzene	ND	ug/kg	5.0					
Toluene	ND	ug/kg	7.5					
Ethylbenzene	ND	ug/kg	5.0					
Chloromethane	ND	ug/kg	50.					
Bromomethane	ND	ug/kg	10.					
Vinyl chloride	ND	ug/kg	18.					
Chloroethane	ND	ug/kg	10.					
1,1-Dichloroethene	ND	ug/kg	7.5					
trans-1,2-Dichloroethene	ND	ug/kg	7.5					
Trichloroethene	ND	ug/kg	5.0					
1,2-Dichlorobenzene	ND	ug/kg	50.					
1,3-Dichlorobenzene	ND	ug/kg	50.					
1,4-Dichlorobenzene	ND	ug/kg	50.					
Methyl tert butyl ether	ND	ug/kg	50.					
Xylenes	ND	ug/kg	5.0					
cis-1,2-Dichloroethene	ND	ug/kg	5.0					
Dibromomethane	ND	ug/kg	50.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507726-10
9510032-01A

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	13-Oct	13-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	50.					
Iodomethane	ND	ug/kg	50.					
1,2,3-Trichloropropane	ND	ug/kg	50.					
Styrene	ND	ug/kg	5.0					
Dichlorodifluoromethane	ND	ug/kg	50.					
Acetone	ND	ug/kg	50.					
Carbon Disulfide	ND	ug/kg	50.					
2-Butanone	ND	ug/kg	23.					
Vinyl Acetate	ND	ug/kg	50.					
4-Methyl-2-pentanone	ND	ug/kg	50.					
2-Hexanone	ND	ug/kg	50.					
Ethyl methacrylate	ND	ug/kg	50.					
Acrolein	ND	ug/kg	130					
Acrylonitrile	ND	ug/kg	50.					
Bromochloromethane	ND	ug/kg	25.					
2,2-Dichloropropane	ND	ug/kg	25.					
1,2-Dibromoethane	ND	ug/kg	25.					
1,3-Dichloropropane	ND	ug/kg	25.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	25.					
Bromobenzene	ND	ug/kg	25.					
n-Butylbenzene	ND	ug/kg	25.					
sec-Butylbenzene	ND	ug/kg	25.					
tert-Butylbenzene	ND	ug/kg	25.					
o-Chlorotoluene	ND	ug/kg	25.					
p-Chlorotoluene	ND	ug/kg	25.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	25.					
Hexachlorobutadiene	ND	ug/kg	25.					
Isopropylbenzene	ND	ug/kg	25.					
p-Isopropyltoluene	ND	ug/kg	25.					
Naphthalene	ND	ug/kg	25.					
n-Propylbenzene	ND	ug/kg	25.					
1,2,3-Trichlorobenzene	ND	ug/kg	25.					
1,2,4-Trichlorobenzene	ND	ug/kg	25.					
1,3,5-Trimethylbenzene	ND	ug/kg	25.					
1,2,4-Trimethylbenzene	ND	ug/kg	25.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	25.					
Ethyl ether	ND	ug/kg	130					
SURROGATE RECOVERY								
Toluene-d8	96.0	%						
4-Bromofluorobenzene	107.	%						
Dibromofluoromethane	98.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507726-11
9510032-02A
Sample Matrix: SOLID

Date Collected: 02-OCT-95
Date Received : 10-OCT-95
Date Reported : 16-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	83.	%	0.10	3	2540B		16-Oct	ST
Volatile Organics by GC/MS				1	8260	13-Oct	13-Oct	DB
Methylene chloride	ND	ug/kg	25.					
1,1-Dichloroethane	ND	ug/kg	7.5					
Chloroform	ND	ug/kg	7.5					
Carbon tetrachloride	ND	ug/kg	5.0					
1,2-Dichloropropane	ND	ug/kg	18.					
Dibromochloromethane	ND	ug/kg	5.0					
1,1,2-Trichloroethane	ND	ug/kg	7.5					
`-Chloroethylvinyl ether	ND	ug/kg	50.					
etrachloroethene	ND	ug/kg	7.5					
Chlorobenzene	ND	ug/kg	18.					
Trichlorofluoromethane	ND	ug/kg	25.					
1,2-Dichloroethane	ND	ug/kg	7.5					
1,1,1-Trichloroethane	ND	ug/kg	5.0					
Bromodichloromethane	ND	ug/kg	5.0					
trans-1,3-Dichloropropene	ND	ug/kg	7.5					
cis-1,3-Dichloropropene	ND	ug/kg	5.0					
Bromoform	ND	ug/kg	5.0					
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0					
Benzene	ND	ug/kg	5.0					
Toluene	ND	ug/kg	7.5					
Ethylbenzene	ND	ug/kg	5.0					
Chloromethane	ND	ug/kg	50.					
Bromomethane	ND	ug/kg	10.					
Vinyl chloride	ND	ug/kg	18.					
Chloroethane	ND	ug/kg	10.					
1,1-Dichloroethene	ND	ug/kg	7.5					
trans-1,2-Dichloroethene	ND	ug/kg	7.5					
Trichloroethene	ND	ug/kg	5.0					
1,2-Dichlorobenzene	ND	ug/kg	50.					
1,3-Dichlorobenzene	ND	ug/kg	50.					
1,4-Dichlorobenzene	ND	ug/kg	50.					
Methyl tert butyl ether	ND	ug/kg	50.					
Xylenes	ND	ug/kg	5.0					
cis-1,2-Dichloroethene	ND	ug/kg	5.0					
Dibromomethane	ND	ug/kg	50.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507726-11
9510032-02A

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	13-Oct	13-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	50.					
Iodomethane	ND	ug/kg	50.					
1,2,3-Trichloropropane	ND	ug/kg	50.					
Styrene	ND	ug/kg	5.0					
Dichlorodifluoromethane	ND	ug/kg	50.					
Acetone	ND	ug/kg	50.					
Carbon Disulfide	ND	ug/kg	50.					
2-Butanone	ND	ug/kg	23.					
Vinyl Acetate	ND	ug/kg	50.					
4-Methyl-2-pentanone	ND	ug/kg	50.					
2-Hexanone	ND	ug/kg	50.					
Ethyl methacrylate	ND	ug/kg	50.					
Acrolein	ND	ug/kg	130					
Acrylonitrile	ND	ug/kg	50.					
Bromochloromethane	ND	ug/kg	25.					
2,2-Dichloropropane	ND	ug/kg	25.					
1,2-Dibromoethane	ND	ug/kg	25.					
1,3-Dichloropropane	ND	ug/kg	25.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	25.					
Bromobenzene	ND	ug/kg	25.					
n-Butylbenzene	ND	ug/kg	25.					
sec-Butylbenzene	ND	ug/kg	25.					
tert-Butylbenzene	ND	ug/kg	25.					
o-Chlorotoluene	ND	ug/kg	25.					
p-Chlorotoluene	ND	ug/kg	25.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	25.					
Hexachlorobutadiene	ND	ug/kg	25.					
Isopropylbenzene	ND	ug/kg	25.					
p-Isopropyltoluene	ND	ug/kg	25.					
Naphthalene	ND	ug/kg	25.					
n-Propylbenzene	ND	ug/kg	25.					
1,2,3-Trichlorobenzene	ND	ug/kg	25.					
1,2,4-Trichlorobenzene	ND	ug/kg	25.					
1,3,5-Trimethylbenzene	ND	ug/kg	25.					
1,2,4-Trimethylbenzene	ND	ug/kg	25.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	25.					
Ethyl ether	ND	ug/kg	130					

SURROGATE RECOVERY

Toluene-d8	105.	%
4-Bromofluorobenzene	91.0	%
Dibromofluoromethane	96.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507726-12
9510032-04A
Sample Matrix: SOLID

Date Collected: 02-OCT-95
Date Received : 10-OCT-95
Date Reported : 16-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	67.	%	0.10	3	2540B		16-Oct	ST
Volatile Organics by GC/MS				1	8260	13-Oct	13-Oct	DB
Methylene chloride	ND	ug/kg	3700					
1,1-Dichloroethane	ND	ug/kg	1100					
Chloroform	ND	ug/kg	1100					
Carbon tetrachloride	ND	ug/kg	750					
1,2-Dichloropropane	ND	ug/kg	2600					
Dibromochloromethane	ND	ug/kg	750					
1,1,2-Trichloroethane	ND	ug/kg	1100					
2-Chloroethylvinyl ether	ND	ug/kg	7500					
etrachloroethene	ND	ug/kg	1100					
Chlorobenzene	ND	ug/kg	2600					
Trichlorofluoromethane	ND	ug/kg	3700					
1,2-Dichloroethane	ND	ug/kg	1100					
1,1,1-Trichloroethane	ND	ug/kg	750					
Bromodichloromethane	ND	ug/kg	750					
trans-1,3-Dichloropropene	ND	ug/kg	1100					
cis-1,3-Dichloropropene	ND	ug/kg	750					
Bromoform	ND	ug/kg	750					
1,1,2,2-Tetrachloroethane	ND	ug/kg	750					
Benzene	ND	ug/kg	750					
Toluene	12000	ug/kg	1100					
Ethylbenzene	7600	ug/kg	750					
Chloromethane	ND	ug/kg	7500					
Bromomethane	ND	ug/kg	1500					
Vinyl chloride	ND	ug/kg	2600					
Chloroethane	ND	ug/kg	1500					
1,1-Dichloroethene	ND	ug/kg	1100					
trans-1,2-Dichloroethene	ND	ug/kg	1100					
Trichloroethene	1200	ug/kg	750					
1,2-Dichlorobenzene	12000	ug/kg	7500					
1,3-Dichlorobenzene	ND	ug/kg	7500					
1,4-Dichlorobenzene	ND	ug/kg	7500					
Methyl tert butyl ether	ND	ug/kg	7500					
Xylenes	48000	ug/kg	750					
cis-1,2-Dichloroethene	10000	ug/kg	750					
Dibromomethane	ND	ug/kg	7500					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507726-12
9510032-04A

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	13-Oct	13-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	7500					
Iodomethane	ND	ug/kg	7500					
1,2,3-Trichloropropane	ND	ug/kg	7500					
Styrene	ND	ug/kg	750					
Dichlorodifluoromethane	ND	ug/kg	7500					
Acetone	ND	ug/kg	7500					
Carbon Disulfide	ND	ug/kg	7500					
2-Butanone	ND	ug/kg	3400					
Vinyl Acetate	ND	ug/kg	7500					
4-Methyl-2-pentanone	ND	ug/kg	7500					
2-Hexanone	ND	ug/kg	7500					
Ethyl methacrylate	ND	ug/kg	7500					
Acrolein	ND	ug/kg	19000					
Acrylonitrile	ND	ug/kg	7500					
Bromochloromethane	ND	ug/kg	3700					
2,2-Dichloropropane	ND	ug/kg	3700					
1,2-Dibromoethane	ND	ug/kg	3700					
1,3-Dichloropropane	ND	ug/kg	3700					
1,1,1,2-Tetrachloroethane	ND	ug/kg	3700					
Bromobenzene	ND	ug/kg	3700					
n-Butylbenzene	ND	ug/kg	3700					
sec-Butylbenzene	ND	ug/kg	3700					
tert-Butylbenzene	ND	ug/kg	3700					
o-Chlorotoluene	ND	ug/kg	3700					
p-Chlorotoluene	ND	ug/kg	3700					
1,2-Dibromo-3-chloropropane	ND	ug/kg	3700					
Hexachlorobutadiene	ND	ug/kg	3700					
Isopropylbenzene	ND	ug/kg	3700					
p-Isopropyltoluene	ND	ug/kg	3700					
Naphthalene	27000	ug/kg	3700					
n-Propylbenzene	ND	ug/kg	3700					
1,2,3-Trichlorobenzene	ND	ug/kg	3700					
1,2,4-Trichlorobenzene	ND	ug/kg	3700					
1,3,5-Trimethylbenzene	19000	ug/kg	3700					
1,2,4-Trimethylbenzene	45000	ug/kg	3700					
trans-1,4-Dichloro-2-butene	ND	ug/kg	3700					
Ethyl ether	ND	ug/kg	19000					

SURROGATE RECOVERY

Toluene-d8	119.	%
4-Bromofluorobenzene	118.	%
Dibromofluoromethane	82.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L9507726

Parameter	MS %	MSD %	RPD
Volatile Organics by GC/MS Spike Recovery MS/MSD for sample(s) 01-12			
1,1-Dichloroethene	83	85	2
Trichloroethene	107	105	2
Benzene	96	108	12
Toluene	110	117	6
Chlorobenzene	103	105	2

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. 1986.

3. Standard Methods for Examination cf Water and Waste Water. APHA-AWWA-WPCF. 17th Edition. 1989.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.

METHOD Method number by which analysis was performed.

D Initials of the analyst.

Quanterra Environmental Services

Quanterra Incorporated
450 William Pitt Way
Pittsburgh, Pennsylvania 15238

412 826-5477 Telephone
412 826-5571 Fax

ANALYTICAL REPORT

PROJECT NO. 9510032

CLEAN HARBOR

MICHAEL J. WEDGE

CLEAN HARBORS ANALYTICAL

QUANTERRA INCORPORATED

Adrinnia S. Washington

Adrinnia Washington
Project Manager

October 12, 1995

Quanterra
Environmental Services

NARRATIVE

The following report contains the analytical results for samples submitted to Quanterra Incorporated. The samples were received into the laboratory in accordance with documented sample acceptance procedures.

Quanterra utilizes USEPA approved methods and instrumentation in all analytical work. The methods used for the analyses presented in this study can be found on the following pages.

A Quality Control Section, containing a summary of QA/QC data for these analyses, is included at the end of the report.

The following codes are utilized in various analyses of this report:

ND	(None Detected)
DIL	(Diluted Out)
MI	(Matrix Interference)
NEG	(Negative)
J	(Detected, but below quantitation limit; estimated value)
B	(Compounds detected in method blank associated with this sample)
W	(Post digestion spike recovery fell between 40 - 85 %)
S	(Sample result determined by the Method of Standard Additions)
+	(Sample result determined by the Method of Standard Additions and the correlation coefficient was less than 0.995)

Quanterra
Environmental Services

CASE NARRATIVE

Due to the samples matrix, dilutions were performed. As a result of the dilutions surrogates are outside of QC limits.

Quanterra
Environmental Services

ANALYTICAL METHODS SUMMARY

Parameters	Methods
Polynuclear Aromatic Hydrocarbons Hydrocarbons	SW846 8310
Solids, Total (TS)	MCAWW 160.3 MODIFIED

References:

MCAWW Methods for Chemical Analysis of Water and Wastes, EMSL: Cincinnati, OH: March 1983 and subsequent revisions

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, September, 1986 and subsequent revisions

Quanterra
Environmental Services

SAMPLE SUMMARY

The analytical results of the samples listed below are presented on the following pages.

WO #	LABORATORY ID	SAMPLE IDENTIFICATION	DATE/TIME SAMPLED
A5NWP	C5J050010-001	9510032-01Q	10/02/95
A5NWQ	C5J050010-002	9510032-02Q	10/02/95
A5NWT	C5J050010-003	9510032-04Q	10/02/95

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

9510032-01Q

WO #: A5NWP101
LAB #: C5J050010-001
MATRIX: SOLID
DILUTION FACTOR: 7.00

DATE SAMPLED: 10/02/95
TIME SAMPLED:
DATE RECEIVED: 10/05/95

- - - - - - - - - - - - - - - - - - REQUESTED PARAMETERS - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	290	SW846 8310	10/06-10/08/95	5279025
Acenaphthylene	ND	290	SW846 8310	10/06-10/08/95	5279025
Acenaphthene	ND	290	SW846 8310	10/06-10/08/95	5279025
Fluorene	ND	59	SW846 8310	10/06-10/08/95	5279025
Phenanthrene	**350**	**150**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Anthracene	ND	150	SW846 8310	10/06-10/08/95	5279025
Fluoranthene	**920**	**59**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Pyrene	**540**	**59**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Benzo(a)anthracene	**440**	**5.9**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Chrysene	**420**	**44**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Benzo(b)fluoranthene	**380**	**5.9**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Benzo(k)fluoranthene	**200**	**5.9**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Benzo(a)pyrene	**540**	**5.9**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Indeno(1,2,3-cd)pyrene	**77**	**15**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Dibenzo(a,h)anthracene	**44**	**8.8**	**SW846 8310**	**10/06-10/08/95**	**5279025**
Benzo(g,h,i)perylene	**370**	**15**	**SW846 8310**	**10/06-10/08/95**	**5279025**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	DIL	(36 - 144)
2-Fluorobiphenyl	DIL	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510032-01Q

WO #: A5NWP
LAB #: C5J050010-001
MATRIX: SOLID

DATE SAMPLED: 10/02/95
TIME SAMPLED:
DATE RECEIVED: 10/05/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**79.3**		**%**	**MCAWW 160.3 M**	**10/05/95**	**5279015**

NOTE: DRY WEIGHT

B-3 (SS-2)
(MW-7)

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

9510032-02Q

WO #: A5NWQ101
LAB #: C5J050010-002
MATRIX: SOLID
DILUTION FACTOR: 18.00

DATE SAMPLED: 10/02/95
TIME SAMPLED:
DATE RECEIVED: 10/05/95

- - - - - - - - - - - - - - - - - - REQUESTED PARAMETERS - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	**740**	**690**	**SW846 8310**	**10/06-10/09/95**	**5279025**
Acenaphthylene	ND	690	SW846 8310	10/06-10/09/95	5279025
Acenaphthene	ND	690	SW846 8310	10/06-10/09/95	5279025
Fluorene	ND	140	SW846 8310	10/06-10/09/95	5279025
Phenanthrene	**380**	**350**	**SW846 8310**	**10/06-10/09/95**	**5279025**
Anthracene	ND	350	SW846 8310	10/06-10/09/95	5279025
Fluoranthene	**740**	**140**	**SW846 8310**	**10/06-10/09/95**	**5279025**
Pyrene	**230**	**140**	**SW846 8310**	**10/06-10/09/95**	**5279025**
Benzo(a)anthracene	**300**	**14**	**SW846 8310**	**10/06-10/09/95**	**5279025**
Chrysene	**220**	**100**	**SW846 8310**	**10/06-10/09/95**	**5279025**
Benzo(b)fluoranthene	**320**	**14**	**SW846 8310**	**10/06-10/09/95**	**5279025**
Benzo(k)fluoranthene	**170**	**14**	**SW846 8310**	**10/06-10/09/95**	**5279025**
Benzo(a)pyrene	**400**	**14**	**SW846 8310**	**10/06-10/09/95**	**5279025**
Indeno(1,2,3-cd)pyrene	**140**	**35**	**SW846 8310**	**10/06-10/09/95**	**5279025**
Dibenzo(a,h)anthracene	**34**	**21**	**SW846 8310**	**10/06-10/09/95**	**5279025**
Benzo(g,h,i)perylene	**350**	**35**	**SW846 8310**	**10/06-10/09/95**	**5279025**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	DIL	(36 - 144)
2-Fluorobiphenyl	DIL	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

B-3 (SS-2)
(MW-7)

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510032-02Q

WO #: A5NWQ
LAB #: C5J050010-002
MATRIX: SOLID

DATE SAMPLED: 10/02/95
TIME SAMPLED:
DATE RECEIVED: 10/05/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**86.5**		**%**	**MCAWW 160.3 M**	**10/05/95**	**5279015**

NOTE: DRY WEIGHT

B-3 (SS-4)
(MW-7)

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

9510032-04Q

WO #: A5NWT101
LAB #: C5J050010-003
MATRIX: SOLID
DILUTION FACTOR: 40.00

DATE SAMPLED: 10/02/95
TIME SAMPLED:
DATE RECEIVED: 10/05/95

- **REQUESTED PARAMETERS** -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	1,500	SW846 8310	10/06-10/10/95	5279025
Acenaphthylene	ND	1,500	SW846 8310	10/06-10/10/95	5279025
Acenaphthene	ND	1,500	SW846 8310	10/06-10/10/95	5279025
Fluorene	**310**	**290**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Phenanthrene	**1,900**	**750**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Anthracene	ND	750	SW846 8310	10/06-10/10/95	5279025
Fluoranthene	**3,700**	**290**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Pyrene	**3,100**	**290**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Benzo(a)anthracene	**1,500**	**29**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Chrysene	**1,600**	**220**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Benzo(b)fluoranthene	**1,600**	**29**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Benzo(k)fluoranthene	**890**	**29**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Benzo(a)pyrene	**2,000**	**29**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Indeno(1,2,3-cd)pyrene	**450**	**75**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Dibenzo(a,h)anthracene	**220**	**44**	**SW846 8310**	**10/06-10/10/95**	**5279025**
Benzo(g,h,i)perylene	**1,200**	**75**	**SW846 8310**	**10/06-10/10/95**	**5279025**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	DIL	(36 - 144)
2-Fluorobiphenyl	DIL	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

B-3 (SS-4)
(MW-7)

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510032-04Q

WO #: A5NWT
LAB #: C5J050010-003
MATRIX: SOLID

DATE SAMPLED: 10/02/95
TIME SAMPLED:
DATE RECEIVED: 10/05/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**90.9**		**%**	**MCAWW 160.3 M**	**10/05/95**	**5279015**

NOTE: DRY WEIGHT

Quanterra
Environmental
Services

QUALITY CONTROL SECTION

Quanterra
Environmental Services

QUALITY ASSURANCE/QUALITY CONTROL PROGRAM SUMMARY

Quanterra Incorporated considers continuous analytical performance evaluations to be an integral portion of the data package, and routinely includes the pertinent QA/QC data associated with various analytical reports. Brief discussions of the various QA/QC procedures utilized to measure acceptable method and matrix performance follow.

SURROGATE SPIKE RECOVERY EVALUATIONS

Known concentrations of designated surrogate spikes, consisting of a number of similar, non-method compounds or method compounds analogues, are added, as appropriate, to routine GC and GC/MS sample fractions prior to extraction and analysis. The percent recoveries calculated from the subsequent spike recovery data is displayed alongside acceptable analytical method performance limits at the bottom of each applicable analytical result report sheet.

NOTE: Acceptable method performance for Base/Neutral Acid extractables is indicated by two (2) of three (3) surrogates for each fraction with a minimum recovery of ten percent (10%) each. For Pesticides, one (1) of two (2) surrogates meeting performance criteria is acceptable.

LABORATORY ANALYTICAL METHOD BLANK EVALUATIONS

Laboratory analytical method blanks are systematically prepared and analyzed in order to continuously evaluate the system interferences and background contamination levels associated with each analytical method. These method blanks include all aspects of actual laboratory method analysis (chemical reagents, glassware, etc.) substituting laboratory reagent water or solid for actual sample. The method blank must not contain any analytes above the reported detection limit. The following common laboratory contaminants are exceptions to this rule, provided they are not present at a greater than five times the detection limit.

Volatiles	Semi-volatiles
Methylene chloride	Dimethyl phthalate
2-Butanone	Diethyl phthalate
Acetone	Di-n-butyl phthalate
	Butyl benzyl phthalate
	Bis (2-ethylhexyl) phthalate

A minimum of five percent (5%) of all laboratory analyses are laboratory analytical method blanks.

QUALITY ASSURANCE/QUALITY CONTROL PROGRAM SUMMARY (CONT)

LABORATORY ANALYTICAL METHOD CHECK SAMPLE EVALUATIONS

Known concentrations of designated matrix spikes (actual analytical method compounds) are added to a laboratory reagent blank prior to extraction and analysis. Percent recovery determinations demonstrate the performance of the analytical method. Failure of a check sample to meet established laboratory recovery criteria is cause to stop the analysis until the problem is resolved. All compounds must meet laboratory recovery criteria. A minimum of five percent (5%) of all laboratory analyses are laboratory analytical method check samples.

MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD) RECOVERY EVALUATION

Known concentration of designated matrix spikes (actual analytical method compounds) are added to two of three separate aliquots of a sequentially predetermined sample prior to extraction and analysis. Percent recovery determinations are calculated from both of the spiked samples by comparison to the actual values generated from the unspiked sample. These percent recovery determinations indicate the accuracy of the analysis at recovering actual analytical method compounds from the matrix. Actual percent recovery data is displayed alongside the acceptable analytical method performance limits in the QA/QC section of the report. The MS/MSD are considered in control when the associated check sample has been found to be acceptable. A minimum of ten percent (10%) of all analyses are MS/MSD quality control samples.

EXAMPLE

COMPOUND	SAMPLE CONCENTRATION	MS % RECOVERY	MSD % RECOVERY	QC LIMITS[1] RECOVERY
4-4'-DDT	0	95	112	(66-119)
Benzene	10	86	93	(39-150)
compound name	sample result	1st % recovery	2nd % recovery	acceptable method limits

[1]QC limits are statistically derived from historical laboratory data. Where insufficient data exists to statistically derive these limits, they will be labelled "advisory". In this case, they are based on the best available technical information.

For metals analyses, the recoveries of the MS/MSD must be within the range of 80-120%. If they do not meet this criteria, but the RPD of the two results is <20% <u>OR</u> the absolute difference is less than 10% when the recoveries are below 50%, no corrective action is required. If these criteria are not met, the sample with its MS/MSD is reprepared and reanalyzed once more.

Quanterra Environmental Services

INTRA-LAB BLANK REPORT

LAB #: C5J060000-025

POLYNUCLEAR AROMATIC HYDROCARBONS

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	PREPARATION - ANALYSIS DATE	QC BATCH
Acenaphthene	ND	33	10/06/95	5279025
Acenaphthylene	ND	33	10/06/95	5279025
Anthracene	ND	17	10/06/95	5279025
Benzo(a)anthracene	ND	0.67	10/06/95	5279025
Benzo(b)fluoranthene	ND	0.67	10/06/95	5279025
Benzo(k)fluoranthene	ND	0.67	10/06/95	5279025
Benzo(g,h,i)perylene	ND	1.7	10/06/95	5279025
Benzo(a)pyrene	ND	0.67	10/06/95	5279025
Chrysene	ND	5.0	10/06/95	5279025
Fluoranthene	ND	6.7	10/06/95	5279025
Fluorene	ND	6.7	10/06/95	5279025
Indeno(1,2,3-cd)pyrene	ND	1.7	10/06/95	5279025
Naphthalene	ND	33	10/06/95	5279025
Phenanthrene	ND	17	10/06/95	5279025
Pyrene	ND	6.7	10/06/95	5279025
Dibenzo(a,h)anthracene	ND	1.0	10/06/95	5279025

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	82	(36 - 144)
2-Fluorobiphenyl	72	(47 - 143)

NOTE:

ND (NONE DETECTED)

Quanterra
Environmental Services

CHECK SAMPLE REPORT

QC BATCH: 5279025
LAB #: C5J060000-025 C
DILUTION FACTOR: 1.00

PREPARATION DATE: 10/06/95
DATE ANALYZED: 10/06/95

- - - - - - - - - - - - - - - Polynuclear Aromatic Hydrocarbons - - - - - - - - - - - - - -

COMPOUND	SPIKE PERCENT RECOVERY	Q/C LIMITS
Naphthalene	103	(52-163)
Phenanthrene	76	(67-123)
Fluoranthene	93	(65-125)
Chrysene	85	(74-124)
Benzo(a)pyrene	97	(48-129)
Indeno(1,2,3-cd)pyrene	97	(63-133)

QUALITY CONTROL

REPORT OF ANALYSIS

CHES LAB. NO. 9510032

The attached quality control data were generated during the analysis of these samples. All results have been generated in accordance with the procedures as stated in the Clean Harbors Environmental Services, Inc. Quality Assurance/Quality Control Manual and pertinent standard operating procedures, which are available for review. The attached has been submitted for informational purposes only.

CleanHarbors

BLANK ANALYSIS

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	ND	10/10/95	10/11/95	**

Notes:

ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual; November 1990.

Evaluation:
Hydrocarbon quantitative range:
C10 - C38

Hydrocarbon qualitative identification:

No significant hydrocarbons observed.

QA/QC Surrogate Recoveries:		Acceptance Criteria
Ortho-terphenyl	87 %	50 - 150%

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9510032

BLANK ANALYSIS

METALS

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	0.1	ND	10/09/95	10/11/95	3005/6010(c)
Arsenic - Total	0.2	ND	10/09/95	10/10/95	3050/6010(c)
Beryllium - Total	0.001	0.001	10/09/95	10/10/95	3050/6010(c)
Cadmium - Total	0.01	ND	10/09/95	10/10/95	3050/6010(c)
Chromium - Total	0.03	ND	10/09/95	10/10/95	3050/6010(c)
Copper - Total	0.03	ND	10/09/95	10/10/95	3050/6010(c)
Lead - Total	0.1	ND	10/09/95	10/10/95	3050/6010(c)
Mercury - Total	0.0002	ND	10/10/95	10/12/95	7471(c)
Nickel - Total	0.03	ND	10/09/95	10/10/95	3050/6010(c)
Selenium - Total	0.2	ND	10/09/95	10/10/95	3050/6010(c)
Silver - Total	0.02	ND	10/09/95	10/11/95	3005/6010(c)
Thallium - Total	0.3	ND	10/09/95	10/10/95	3050/6010(c)
Zinc - Total	0.04	ND	10/09/95	10/10/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc. CHES Lab #: 9510032

BLANK ANALYSIS

METALS

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	0.1	ND	10/09/95	10/11/95	3005/6010(c)
Arsenic - Total	0.2	ND	10/09/95	10/10/95	3050/6010(c)
Beryllium - Total	0.001	0.001	10/09/95	10/10/95	3050/6010(c)
Cadmium - Total	0.01	ND	10/09/95	10/10/95	3050/6010(c)
Chromium - Total	0.03	ND	10/09/95	10/10/95	3050/6010(c)
Copper - Total	0.03	ND	10/09/95	10/10/95	3050/6010(c)
Lead - Total	0.1	ND	10/09/95	10/10/95	3050/6010(c)
Mercury - Total	0.0002	ND	10/10/95	10/12/95	7471(c)
Nickel - Total	0.03	ND	10/09/95	10/10/95	3050/6010(c)
Selenium - Total	0.2	ND	10/09/95	10/10/95	3050/6010(c)
Silver - Total	0.02	ND	10/09/95	10/11/95	3005/6010(c)
Thallium - Total	0.3	ND	10/09/95	10/10/95	3050/6010(c)
Zinc - Total	0.04	ND	10/09/95	10/10/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9510032

BLANK ANALYSIS

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	10/06/95	9010(c)
Cyanide, Total	0.02	ND	mg/l	10/10/95	9010(c)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight

CleanHarbors

J pr 194

Clean Harbors Analytical Services, Inc., 325 Wood Rd., Braintree, MA 02184 | CHAIN OF CUSTODY RECORD | Sample Custodian — (617) 849-1800 | Page 1 of 1

Client: CHES Project Name: MURPHY'S WASTE OIL SERVICE Work Order/P.O. #: EN-170 Date: 10/2/95

Report To: JAY MCCREERY Address: 12 MERCER ROAD NATICK Phone #: x6399

Date Samples Collected: 10/2/95 by: MCCREERY/PACKWOOD Date Samples Received:

Airbill/Bill of Lading? Y N NOTE: Samples received unpreserved will be preserved upon arrival at CHAS. Samples were: Preserved Unpreserved

Sample I.D.	Sampling Information: Date	Time	Station Location	Sample Matrix	Analysis: VOA 8240	TPH GC-FID	PAHs by HPLC	13 P.P. Tot. Metals	Total Cyanide		SIEVE ANALYSIS		# of con.	CHAS Sample # PJ- 1013 9510032
B-2	10/2		SS-3	SOIL	1	1	1	1	1				2	01A, M, O, Q
B-3			SS-2		1	1	1	1	1		1		2	02A, M, O, Q
B-3			SS-3								1			Combine equal parts from 03X
B-3			SS-4		1	1	1	1	1		1		2	each 04A, M, O, Q sample and run composite
B-3			SS-5								1		1	for sieve test. 05X
B-3			SS-6								1		1	06X
														07L

VOA Vial								
Glass Bottle								
Plastic Bottle								
Pres.								
Volume								

Relinquished by: [signature] Date: ~~Courier~~ 10/3/95 Time: 5:45 PM

Received by: [signature] Date: 10/3/95 Time: 5:45

Relinquished by: Date: Time:

Received by: Date: Time:

Preservation Key: A — Acidified with B — Filtered, C — Sample chilled, D— NaOH, E — NaThiosulfate, W — Sample Ambient, F — Other

REMARKS/COMMENTS: (Sample storage, nonstandard bottles, cautions, special instructions)

Total of 9 sample containers Run VOA first, then for additional parameters 13 more sample volume 13 needed.

Standard laboratory turnaround time is 2 weeks from date of receipt. Accelerated turnaround may be assessed a surcharge.
Accelerated turnaround requested:
Confirmed by: Surcharge:

Location of samples: B4, B9B2, Quonterns

Turnaround: 24 Hrs. 48 Hrs. 1 Week 2 Weeks Other:

CHI 119

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CleanHarbors
ENVIRONMENTAL SERVICES, INC.
325 WOOD ROAD • BRAINTREE, MA 02184
(617) 849-1800

REPORT OF ANALYSIS

Clean Harbors Environmental Services, Inc.
12 Mercer Road
Natick, MA 01760

Project: MURPHY'S WASTE OIL SERVICE
P.O. #: EN170

Date Received: 10/06/95
CHES Lab #: 9510112

Attn: Mr. Jay McCreery

Enclosed are the results for the sample(s) delivered to our laboratory (DEP Laboratory ID# M-MA032) on the date indicated above.

The methods listed represent those methodologies which were used to develop the best analytical techniques. Analytical results and quality assurance protocols are based on these guidelines. These meet the requirements for the reporting of results under the RCRA, NPDES and Safe Drinking Water Act regulations.

Clean Harbors Environmental Services has an active program of quality assurance and quality control. The program closely follows the guidance provided in the EPA Contract Laboratory Program Statement of Work (organic and inorganic), the guidance provided in SW-846, and many other pertinent documents.

Should you have any questions concerning this work, please do not hesitate to contact me.

The information contained in this report is, to the best of my knowledge, accurate and complete.

Per/Date: Michael J. Murray 10/25/95

Michael J. Murray
Laboratory Manager

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D, SS-6
Sample Type: Soil

CHES Lab #: 9510112-01A
Date Received: 10/06/95

Volatile Organics - System E
by EPA Method 8260 (ref. c)

Analysis Date: 10/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/kg

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	113 %	72-122%	70-121%
Toluene-d8:	122 %	86-123%	84-138%
p-BFB:	103 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D, SS-6
Sample Type: Soil

CHES Lab #: 9510112-010
Date Received: 10/06/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	ND	10/17/95	10/17/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
No significant hydrocarbons observed.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 90%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D, SS-6
Sample Type: Soil

CHES Lab #: 9510112-01M
Date Received: 10/06/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	3	ND	10/17/95	10/18/95	3005/6010(c)
Arsenic - Total	6	6	10/17/95	10/18/95	3050/6010(c)
Beryllium - Total	0.029	0.260	10/17/95	10/18/95	3050/6010(c)
Cadmium - Total	0.29	ND	10/17/95	10/18/95	3050/6010(c)
Chromium - Total	0.87	9.1	10/17/95	10/18/95	3050/6010(c)
Copper - Total	0.87	8.0	10/17/95	10/18/95	3050/6010(c)
Lead - Total	3	4	10/17/95	10/18/95	3050/6010(c)
Mercury - Total	0.0855	ND	10/17/95	10/19/95	7471(c)
Nickel - Total	0.87	6.7	10/17/95	10/18/95	3050/6010(c)
Selenium - Total	6	ND	10/17/95	10/18/95	3050/6010(c)
Silver - Total	0.55	ND	10/17/95	10/18/95	3005/6010(c)
Thallium - Total	9	ND	10/17/95	10/18/95	3050/6010(c)
Zinc - Total	1.2	14	10/17/95	10/18/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D, SS-6
Sample Type: Soil

CHES Lab #: 9510112-01M
Date Received: 10/06/95

SIEVE ANALYSIS

by ASTM Method Mod. D422

Analysis Date: 10/19/95

SIEVE NUMBER	OPENING SIZE in MM	WEIGHT %
--	9.5	0.2
4	4.75	0.8
10	2.00	0.4
20	0.850	0.6
40	0.425	1.2
60	0.250	2.7
100	0.150	11.2
200	0.075	45.6
Bottom Tray	<0.075	37.2

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D, SS-6
Sample Type: Soil

CHES Lab #: 9510112-01M
Date Received: 10/06/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	1.1	ND	mg/kg	10/17/95	9010(c)
Total Solids	--	82.7	%	10/13/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Quanterra Incorporated
450 William Pitt Way
Pittsburgh, Pennsylvania 15238

412 826-5477 Telephone
412 826-5571 Fax

ANALYTICAL REPORT

PROJECT NO. 9510112-01Q

CLEAN HARBOR

MICHAEL J. WEDGE

CLEAN HARBORS ANALYTICAL

QUANTERRA INCORPORATED

Adrinnia Washington
Project Manager

October 19, 1995

Quanterra
Environmental Services

NARRATIVE

The following report contains the analytical results for samples submitted to Quanterra Incorporated. The samples were received into the laboratory in accordance with documented sample acceptance procedures.

Quanterra utilizes USEPA approved methods and instrumentation in all analytical work. The methods used for the analyses presented in this study can be found on the following pages.

A Quality Control Section, containing a summary of QA/QC data for these analyses, is included at the end of the report.

The following codes are utilized in various analyses of this report:

ND	(None Detected)
DIL	(Diluted Out)
MI	(Matrix Interference)
NEG	(Negative)
J	(Detected, but below quantitation limit; estimated value)
B	(Compounds detected in method blank associated with this sample)
W	(Post digestion spike recovery fell between 40 - 85 %)
S	(Sample result determined by the Method of Standard Additions)
+	(Sample result determined by the Method of Standard Additions and the correlation coefficient was less than 0.995)

Quanterra
Environmental Services

ANALYTICAL METHODS SUMMARY

Parameters	Methods
Polynuclear Aromatic Hydrocarbons Hydrocarbons	SW846 8310
Solids, Total (TS)	MCAWW 160.3 MODIFIED

References:

MCAWW Methods for Chemical Analysis of Water and Wastes, EMSL: Cincinnati, OH: March 1983 and subsequent revisions

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, September, 1986 and subsequent revisions

Quanterra
Environmental Services

SAMPLE SUMMARY

The analytical results of the samples listed below are presented on the following pages.

WO #	LABORATORY ID	SAMPLE IDENTIFICATION	DATE/TIME SAMPLED
A5PA9	C5J100007-001	9510112-01Q	10/06/95

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510112-01Q

WO #: A5PA9101
LAB #: C5J100007-001
MATRIX: SOLID
DILUTION FACTOR: 1.00

DATE SAMPLED: 10/06/95
TIME SAMPLED:
DATE RECEIVED: 10/10/95

REQUESTED PARAMETERS

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	42	SW846 8310	10/11-10/17/95	5284020
Acenaphthylene	ND	42	SW846 8310	10/11-10/17/95	5284020
Acenaphthene	ND	42	SW846 8310	10/11-10/17/95	5284020
Fluorene	ND	8.5	SW846 8310	10/11-10/17/95	5284020
Phenanthrene	ND	21	SW846 8310	10/11-10/17/95	5284020
Anthracene	ND	21	SW846 8310	10/11-10/17/95	5284020
Fluoranthene	ND	8.5	SW846 8310	10/11-10/17/95	5284020
Pyrene	ND	8.5	SW846 8310	10/11-10/17/95	5284020
Benzo(a)anthracene	ND	0.85	SW846 8310	10/11-10/17/95	5284020
Chrysene	ND	6.3	SW846 8310	10/11-10/17/95	5284020
Benzo(b)fluoranthene	ND	0.85	SW846 8310	10/11-10/17/95	5284020
Benzo(k)fluoranthene	ND	0.85	SW846 8310	10/11-10/17/95	5284020
Benzo(a)pyrene	ND	0.85	SW846 8310	10/11-10/17/95	5284020
Indeno(1,2,3-cd)pyrene	ND	2.1	SW846 8310	10/11-10/17/95	5284020
Dibenzo(a,h)anthracene	ND	1.3	SW846 8310	10/11-10/17/95	5284020
Benzo(g,h,i)perylene	ND	2.1	SW846 8310	10/11-10/17/95	5284020

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	98	(36 - 144)
2-Fluorobiphenyl	85	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

MW-3D (SS-6)

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510112-01Q

WO #: A5PA9
LAB #: C5J100007-001
MATRIX: SOLID

DATE SAMPLED: 10/06/95
TIME SAMPLED:
DATE RECEIVED: 10/10/95

- - - - - - - - - - - - - - - - - - INORGANIC ANALYTICAL REPORT - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	79.3		%	MCAWW 160.3 M	10/11/95	5284022

NOTE: DRY WEIGHT

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QUALITY CONTROL SECTION

Quanterra
Environmental Services

QUALITY ASSURANCE/QUALITY CONTROL PROGRAM SUMMARY

Quanterra Incorporated considers continuous analytical performance evaluations to be an integral portion of the data package, and routinely includes the pertinent QA/QC data associated with various analytical reports. Brief discussions of the various QA/QC procedures utilized to measure acceptable method and matrix performance follow.

SURROGATE SPIKE RECOVERY EVALUATIONS

Known concentrations of designated surrogate spikes, consisting of a number of similar, non-method compounds or method compounds analogues, are added, as appropriate, to routine GC and GC/MS sample fractions prior to extraction and analysis. The percent recoveries calculated from the subsequent spike recovery data is displayed alongside acceptable analytical method performance limits at the bottom of each applicable analytical result report sheet.

NOTE: Acceptable method performance for Base/Neutral Acid extractables is indicated by two (2) of three (3) surrogates for each fraction with a minimum recovery of ten percent (10%) each. For Pesticides, one (1) of two (2) surrogates meeting performance criteria is acceptable.

LABORATORY ANALYTICAL METHOD BLANK EVALUATIONS

Laboratory analytical method blanks are systematically prepared and analyzed in order to continuously evaluate the system interferences and background contamination levels associated with each analytical method. These method blanks include all aspects of actual laboratory method analysis (chemical reagents, glassware, etc.) substituting laboratory reagent water or solid for actual sample. The method blank must not contain any analytes above the reported detection limit. The following common laboratory contaminants are exceptions to this rule, provided they are not present at a greater than five times the detection limit.

Volatiles	Semi-volatiles
Methylene chloride	Dimethyl phthalate
2-Butanone	Diethyl phthalate
Acetone	Di-n-butyl phthalate
	Butyl benzyl phthalate
	Bis (2-ethylhexyl) phthalate

A minimum of five percent (5%) of all laboratory analyses are laboratory analytical method blanks.

QUALITY ASSURANCE/QUALITY CONTROL PROGRAM SUMMARY (CONT)

LABORATORY ANALYTICAL METHOD CHECK SAMPLE EVALUATIONS

Known concentrations of designated matrix spikes (actual analytical method compounds) are added to a laboratory reagent blank prior to extraction and analysis. Percent recovery determinations demonstrate the performance of the analytical method. Failure of a check sample to meet established laboratory recovery criteria is cause to stop the analysis until the problem is resolved. All compounds must meet laboratory recovery criteria. A minimum of five percent (5%) of all laboratory analyses are laboratory analytical method check samples.

MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD) RECOVERY EVALUATION

Known concentration of designated matrix spikes (actual analytical method compounds) are added to two of three separate aliquots of a sequentially predetermined sample prior to extraction and analysis. Percent recovery determinations are calculated from both of the spiked samples by comparison to the actual values generated from the unspiked sample. These percent recovery determinations indicate the accuracy of the analysis at recovering actual analytical method compounds from the matrix. Actual percent recovery data is displayed alongside the acceptable analytical method performance limits in the QA/QC section of the report. The MS/MSD are considered in control when the associated check sample has been found to be acceptable. A minimum of ten percent (10%) of all analyses are MS/MSD quality control samples.

EXAMPLE

COMPOUND	SAMPLE CONCENTRATION	MS % RECOVERY	MSD % RECOVERY	QC LIMITS[1] RECOVERY
4-4'-DDT	0	95	112	(66-119)
Benzene	10	86	93	(39-150)
compound name	sample result	1st % recovery	2nd % recovery	acceptable method limits

[1]QC limits are statistically derived from historical laboratory data. Where insufficient data exists to statistically derive these limits, they will be labelled "advisory". In this case, they are based on the best available technical information.

For metals analyses, the recoveries of the MS/MSD must be within the range of 80-120%. If they do not meet this criteria, but the RPD of the two results is <20% <u>OR</u> the absolute difference is less than 10% when the recoveries are below 50%, no corrective action is required. If these criteria are not met, the sample with its MS/MSD is reprepared and reanalyzed once more.

Quanterra Environmental Services

INTRA-LAB BLANK REPORT

LAB #: C5J110000-020

- - - - - - - - - - - - - - - POLYNUCLEAR AROMATIC HYDROCARBONS - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	PREPARATION - ANALYSIS DATE	QC BATCH
Acenaphthene	ND	33	10/11-10/17/95	5284020
Acenaphthylene	ND	33	10/11-10/17/95	5284020
Anthracene	ND	17	10/11-10/17/95	5284020
Benzo(a)anthracene	ND	0.67	10/11-10/17/95	5284020
Benzo(b)fluoranthene	ND	0.67	10/11-10/17/95	5284020
Benzo(k)fluoranthene	ND	0.67	10/11-10/17/95	5284020
Benzo(g,h,i)perylene	ND	1.7	10/11-10/17/95	5284020
Benzo(a)pyrene	ND	0.67	10/11-10/17/95	5284020
Chrysene	ND	5.0	10/11-10/17/95	5284020
Fluoranthene	ND	6.7	10/11-10/17/95	5284020
Fluorene	ND	6.7	10/11-10/17/95	5284020
Indeno(1,2,3-cd)pyrene	ND	1.7	10/11-10/17/95	5284020
Naphthalene	ND	33	10/11-10/17/95	5284020
Phenanthrene	ND	17	10/11-10/17/95	5284020
Pyrene	ND	6.7	10/11-10/17/95	5284020
Dibenzo(a,h)anthracene	ND	1.0	10/11-10/17/95	5284020

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	109	(36 - 144)
2-Fluorobiphenyl	103	(47 - 143)

NOTE:

ND (NONE DETECTED)

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT

LAB #: C5J100007
QC BATCH: 5284020
WORK ORDER: A5PFQ

PREPARATION DATE: 10/11/95
DATE ANALYZED: 10/17/95

- HPLC -

PARAMETER	TRUE SPIKE	MEASURED SPIKE	PERCENT RECOVERY	RECOVERY LIMITS
Naphtha..ene	167	240	144	(52-163)
Phenanthrene	167	198	119	(67-123)
Fluoranthene	167	198	118	(65-125)
Chrysene	167	210	126 a	(74-124)
Benzo(a)pyrene	167	173	103	(48-129)
Indeno(1,2,3-cd)pyrene	167	226	135 a	(63-133)

NOTE:

Calculations are performed before rounding to avoid round-off errors in calculated results.

a Spiked analyte recovery outside control limits.

QUALITY CONTROL

REPORT OF ANALYSIS

CHES LAB. NO. 9510112

The attached quality control data were generated during the analysis of these samples. All results have been generated in accordance with the procedures as stated in the Clean Harbors Environmental Services, Inc. Quality Assurance/Quality Control Manual and pertinent standard operating procedures, which are available for review. The attached has been submitted for informational purposes only.

Volatile Organics Blank - System E
by EPA Method 624 (ref. f)

Analysis Date: 10/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-Pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4: 112%	72-122%	70-121%
Toluene-d8: 128%	86-123%	84-138%
p-BFB: 103%	83-123%	59-113%

CleanHarbors

Parameter	PQL*	Result	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	ND	10/17/95	10/17/95	**

Notes:

ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.
* = mg/kg
** = U.S. EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual; November 1990.
Hydrocarbon quantitative range:

C10 - C38

Hydrocarbon qualitative identification:

No significant hydrocarbon observed.

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 83 %	50 - 150%

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9510112

BLANK ANALYSIS

METALS

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	0.1	ND	10/17/95	10/18/95	3005/6010(c)
Arsenic - Total	0.2	ND	10/17/95	10/18/95	3050/6010(c)
Beryllium - Total	0.001	ND	10/17/95	10/18/95	3050/6010(c)
Cadmium - Total	0.01	ND	10/17/95	10/18/95	3050/6010(c)
Chromium - Total	0.03	ND	10/17/95	10/18/95	3050/6010(c)
Copper - Total	0.03	ND	10/17/95	10/18/95	3050/6010(c)
Lead - Total	0.1	ND	10/17/95	10/18/95	3050/6010(c)
Mercury - Total	0.0002	ND	10/17/95	10/19/95	7471(c)
Nickel - Total	0.03	ND	10/17/95	10/18/95	3050/6010(c)
Selenium - Total	0.2	ND	10/17/95	10/18/95	3050/6010(c)
Silver - Total	0.02	ND	10/17/95	10/18/95	3005/6010(c)
Thallium - Total	0.3	ND	10/17/95	10/18/95	3050/6010(c)
Zinc - Total	0.04	ND	10/17/95	10/18/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9510112

BLANK ANALYSIS

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	10/17/95	9010(c)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight

CleanHarbors

Clean Harbors Analytical Services, Inc., 325 Wood Rd., Braintree, MA 02184 | CHAIN OF CUSTODY RECORD | Sample Custodian — (617) 849-1800 | Page of

Client: CHES Project Name: MURPHYS WASTE OIL SERVICE, INC. Work Order/P.O. #: EN-170 Date: 10/6/95

Report To: JAY MCCREERY Address: 12 MERCER RD, NATICK, MA Phone #: X6399

Date Samples Collected: 10/6/95 by: P. NICEWONGER Date Samples Received:

Airbill/Bill of Lading? Y N NOTE: Samples received unpreserved will be preserved upon arrival at CHAS. Samples were: Preserved Unpreserved

Sample I.D.	Sampling Information: Date	Time	Station Location	Sample Matrix	Analysis: VOA 8240	TPH GCFID	PAHS by HPLC	13 P.P. TOT. MGT.	TOT. CYANIDE		SIEVE ANALYSIS		# of con.	CHAS Sample # 9510112
MW-3D	10/6		SS-6	SOIL	/	/	/	/	/		/		2	01A, M, O, Q

	VOA Vial	Glass Bottle	Plastic Bottle	Pres.	Volume

Relinquished by: [signature] Date: 10/6/95 Time: 1600

Received by: [signature] Date: 10-6-95 Time: 1600

Relinquished by: [signature] Date: Time:

Received by: [signature] Date: 10/9/95 Time: 1030

Preservation Key: A — Acidified with ____ B — Filtered C — Sample chilled, D— NaOH, E — NaThiosulfate, W — Sample Ambient, F — Other

REMARKS/COMMENTS: (Sample storage, nonstandard bottles, cautions, special instructions)

Standard laboratory turnaround time is 2 weeks from date of receipt. Accelerated turnaround may be assessed a surcharge.
Accelerated turnaround requested: ____
Confirmed by: ____ Surcharge: ____

Location of samples: B4, B9B4

Turnaround: 24 Hrs. 48 Hrs. 1 Week 2 Weeks Other:

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CleanHarbors

Method References

(a) "Methods for Chemical Analysis of Water and Wastes," Publication EPA-600/4-79-020, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, 1979, revised March 1983.

(b) "Standard Methods for the Examination of Water and Wastewater." 18th ed., American Public Health Association, American Water Works Association, Water Pollution Control Federation, Washington, D.C., 1992.

(c) "Test Methods for Evaluating Solid Waste: Physical/Chemical methods," 3rd ed., U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, D.C., November 1986, updated July 1992 and September 1994.

(d) "The Determination of Polychlorinated Biphenyls in Transformer Fluid and Waste Oils," Publication EPA-600/4-81-045, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, September 1982.

(e) "Hazardous Waste Management System; Identification and Listing of Hazardous Waste; Toxicity Characteristic Revisions; Final Rule," Federal Register, Vol. 55, No. 126, Friday, June 29, 1990, and revision in Federal Register, Vol. 57, No. 227, Tuesday, November 24, 1992.

(f) "Guidelines Establishing Test Procedures for Analysis of Pollutants," Code of Federal Regulations, Part 136 Appendix A and Appendix B, July 1, 1993.

(g) "Methods for the Determination of Organic Compounds in Drinking Water," U.S. Environmental Protection Agency, Office of Research and Development, Washington, D.C., December 1988, revised July 1991.

(h) "The Determination of Inorganic Anions in Water by Ion Chromatography - Method 300.0," Publication EPA-600/4-84-017, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, March 1984.

(i) "Hach Water Analysis Handbook," Hach Chemical Company, Loveland, CO, 1992.

(j) "USEPA-CLP Statement of Work for Organic Analysis," Publication OLM01.0 (including revisions, U.S. Environmental Protection Agency, Contract Laboratory Program, August 1991.

(k) "Annual Book of Standards," Section 11: Water and Environmental Technology, Vols. 11.01-11.04, American Society for Testing Materials, Philadelphia, 1989 & 1991.

(l) "Annual Book of Standards," Section 5: Petroleum Products and Lubricants, Vols. 5.01, American Society for Testing Materials, Philadelphia, 1993.

(m) "Annual Book of Standards," Section 4: Construction, Vol. 4.08, American Society for Testing Materials, Philadelphia, 1993.

(n) "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods," 2nd ed., U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, D.C., July 1982, updated April 1984.

(o) "Annual Book of Standards," Section 15: Engine Coolants; Halogenated Organic Solvents, Vol. 15.05,American Society for Testing Materials, Philadelphia, 1995.

[REF-09/21/95]

Clean Harbors
ENVIRONMENTAL SERVICES, INC.
325 WOOD ROAD • BRAINTREE, MA 02184
(617) 849-1800

REPORT OF ANALYSIS

Clean Harbors Environmental Services, Inc.
12 Mercer Road
Natick, MA 01760

Project: MURPHY'S WASTE OIL SERVICE
P.O. #: EN170

Date Received: 10/05/95
CHES Lab #: 9510080

Attn: Mr. Jay McCreery

Enclosed are the results for the sample(s) delivered to our laboratory (DEP Laboratory ID# M-MA032) on the date indicated above.

The methods listed represent those methodologies which were used to develop the best analytical techniques. Analytical results and quality assurance protocols are based on these guidelines. These meet the requirements for the reporting of results under the RCRA, NPDES and Safe Drinking Water Act regulations.

Clean Harbors Environmental Services has an active program of quality assurance and quality control. The program closely follows the guidance provided in the EPA Contract Laboratory Program Statement of Work (organic and inorganic), the guidance provided in SW-846, and many other pertinent documents.

Should you have any questions concerning this work, please do not hesitate to contact me.

The information contained in this report is, to the best of my knowledge, accurate and complete.

Per/Date: Michael J. Murray 10/25/95

Michael J. Murray
Laboratory Manager

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

CERTIFICATE OF ANALYSIS

Client: Clean Harbors

Address: 325 Wood Road

Braintree, MA 02184

Attn: Mike Wedge

Project Number: 9510080

Site:

Laboratory Job Number: L9507825

Invoice Number: 78066

Date Received: 12-OCT-95

Date Reported: 19-OCT-95

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9507825-01	9510081-01	
L9507825-02	9510081-02	
L9507825-03	9510081-03	
L9507825-04	9510081-04	
L9507825-05	9510081-05	
L9507825-06	9510081-06	
L9507825-07	9510081-07	
L9507825-08	9510081-08	
L9507825-09	9510080-01	
L9507825-10	9510080-02	
L9507825-11	9510080-05	
L9507825-12	9510080-07	
L9507825-13	9510080-08	
L9507825-14	9510080-09	

Authorized by: James R. Roth

James R. Roth, PhD - Laboratory Manager

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507825-09
9510080-01
Sample Matrix: SOIL

Date Collected: 05-OCT-95
Date Received : 12-OCT-95
Date Reported : 19-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	82.	%	0.10	3	2540B		18-Oct	ST
Volatile Organics by GC/MS				1	8260	18-Oct	18-Oct	DB
Methylene chloride	ND	ug/kg	25.					
1,1-Dichloroethane	ND	ug/kg	7.5					
Chloroform	ND	ug/kg	7.5					
Carbon tetrachloride	ND	ug/kg	5.0					
1,2-Dichloropropane	ND	ug/kg	18.					
Dibromochloromethane	ND	ug/kg	5.0					
1,1,2-Trichloroethane	ND	ug/kg	7.5					
2-Chloroethylvinyl ether	ND	ug/kg	50.					
Tetrachloroethene	ND	ug/kg	7.5					
Chlorobenzene	ND	ug/kg	18.					
Trichlorofluoromethane	ND	ug/kg	25.					
1,2-Dichloroethane	ND	ug/kg	7.5					
1,1,1-Trichloroethane	ND	ug/kg	5.0					
Bromodichloromethane	ND	ug/kg	5.0					
trans-1,3-Dichloropropene	ND	ug/kg	7.5					
cis-1,3-Dichloropropene	ND	ug/kg	5.0					
Bromoform	ND	ug/kg	5.0					
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0					
Benzene	ND	ug/kg	5.0					
Toluene	ND	ug/kg	7.5					
Ethylbenzene	ND	ug/kg	5.0					
Chloromethane	ND	ug/kg	50.					
Bromomethane	ND	ug/kg	10.					
Vinyl chloride	ND	ug/kg	18.					
Chloroethane	ND	ug/kg	10.					
1,1-Dichloroethene	ND	ug/kg	7.5					
trans-1,2-Dichloroethene	ND	ug/kg	7.5					
Trichloroethene	ND	ug/kg	5.0					
1,2-Dichlorobenzene	ND	ug/kg	50.					
1,3-Dichlorobenzene	ND	ug/kg	50.					
1,4-Dichlorobenzene	ND	ug/kg	50.					
Methyl tert butyl ether	ND	ug/kg	50.					
Xylenes	ND	ug/kg	5.0					
cis-1,2-Dichloroethene	ND	ug/kg	5.0					
Dibromomethane	ND	ug/kg	50.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507825-09
9510080-01

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	18-Oct	18-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	50.					
Iodomethane	ND	ug/kg	50.					
1,2,3-Trichloropropane	ND	ug/kg	50.					
Styrene	ND	ug/kg	5.0					
Dichlorodifluoromethane	ND	ug/kg	50.					
Acetone	ND	ug/kg	50.					
Carbon Disulfide	ND	ug/kg	50.					
2-Butanone	ND	ug/kg	23.					
Vinyl Acetate	ND	ug/kg	50.					
4-Methyl-2-pentanone	ND	ug/kg	50.					
2-Hexanone	ND	ug/kg	50.					
Ethyl methacrylate	ND	ug/kg	50.					
Acrolein	ND	ug/kg	130					
Acrylonitrile	ND	ug/kg	50.					
Bromochloromethane	ND	ug/kg	25.					
2,2-Dichloropropane	ND	ug/kg	25.					
1,2-Dibromoethane	ND	ug/kg	25.					
1,3-Dichloropropane	ND	ug/kg	25.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	25.					
Bromobenzene	ND	ug/kg	25.					
n-Butylbenzene	ND	ug/kg	25.					
sec-Butylbenzene	ND	ug/kg	25.					
tert-Butylbenzene	ND	ug/kg	25.					
o-Chlorotoluene	ND	ug/kg	25.					
p-Chlorotoluene	ND	ug/kg	25.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	25.					
Hexachlorobutadiene	ND	ug/kg	25.					
Isopropylbenzene	ND	ug/kg	25.					
p-Isopropyltoluene	ND	ug/kg	25.					
Naphthalene	ND	ug/kg	25.					
n-Propylbenzene	ND	ug/kg	25.					
1,2,3-Trichlorobenzene	ND	ug/kg	25.					
1,2,4-Trichlorobenzene	ND	ug/kg	25.					
1,3,5-Trimethylbenzene	ND	ug/kg	25.					
1,2,4-Trimethylbenzene	ND	ug/kg	25.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	25.					
Ethyl ether	ND	ug/kg	130					

SURROGATE RECOVERY

Toluene-d8	80.0	%
4-Bromofluorobenzene	79.0	%
Dibromofluoromethane	81.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507825-10
9510080-02
Sample Matrix: SOIL

Date Collected: 05-OCT-95
Date Received : 12-OCT-95
Date Reported : 19-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	83.	%	0.10	3	2540B		18-Oct	ST
Volatile Organics by GC/MS				1	8260	16-Oct	16-Oct	DB
Methylene chloride	ND	ug/kg	25.					
1,1-Dichloroethane	ND	ug/kg	7.5					
Chloroform	ND	ug/kg	7.5					
Carbon tetrachloride	ND	ug/kg	5.0					
1,2-Dichloropropane	ND	ug/kg	18.					
Dibromochloromethane	ND	ug/kg	5.0					
1,1,2-Trichloroethane	ND	ug/kg	7.5					
2-Chloroethylvinyl ether	ND	ug/kg	50.					
Tetrachloroethene	ND	ug/kg	7.5					
Chlorobenzene	ND	ug/kg	18.					
Trichlorofluoromethane	ND	ug/kg	25.					
1,2-Dichloroethane	ND	ug/kg	7.5					
1,1,1-Trichloroethane	ND	ug/kg	5.0					
Bromodichloromethane	ND	ug/kg	5.0					
trans-1,3-Dichloropropene	ND	ug/kg	7.5					
cis-1,3-Dichloropropene	ND	ug/kg	5.0					
Bromoform	ND	ug/kg	5.0					
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0					
Benzene	ND	ug/kg	5.0					
Toluene	ND	ug/kg	7.5					
Ethylbenzene	ND	ug/kg	5.0					
Chloromethane	ND	ug/kg	50.					
Bromomethane	ND	ug/kg	10.					
Vinyl chloride	ND	ug/kg	18.					
Chloroethane	ND	ug/kg	10.					
1,1-Dichloroethene	ND	ug/kg	7.5					
trans-1,2-Dichloroethene	ND	ug/kg	7.5					
Trichloroethene	ND	ug/kg	5.0					
1,2-Dichlorobenzene	ND	ug/kg	50.					
1,3-Dichlorobenzene	ND	ug/kg	50.					
1,4-Dichlorobenzene	ND	ug/kg	50.					
Methyl tert butyl ether	ND	ug/kg	50.					
Xylenes	ND	ug/kg	5.0					
cis-1,2-Dichloroethene	ND	ug/kg	5.0					
Dibromomethane	ND	ug/kg	50.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507825-10
9510080-02

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	16-Oct	16-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	50.					
Iodomethane	ND	ug/kg	50.					
1,2,3-Trichloropropane	ND	ug/kg	50.					
Styrene	ND	ug/kg	5.0					
Dichlorodifluoromethane	ND	ug/kg	50.					
Acetone	ND	ug/kg	50.					
Carbon Disulfide	ND	ug/kg	50.					
2-Butanone	ND	ug/kg	23.					
Vinyl Acetate	ND	ug/kg	50.					
4-Methyl-2-pentanone	ND	ug/kg	50.					
2-Hexanone	ND	ug/kg	50.					
Ethyl methacrylate	ND	ug/kg	50.					
Acrolein	ND	ug/kg	130					
Acrylonitrile	ND	ug/kg	50.					
Bromochloromethane	ND	ug/kg	25.					
2,2-Dichloropropane	ND	ug/kg	25.					
1,2-Dibromoethane	ND	ug/kg	25.					
1,3-Dichloropropane	ND	ug/kg	25.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	25.					
Bromobenzene	ND	ug/kg	25.					
n-Butylbenzene	ND	ug/kg	25.					
sec-Butylbenzene	ND	ug/kg	25.					
tert-Butylbenzene	ND	ug/kg	25.					
o-Chlorotoluene	ND	ug/kg	25.					
p-Chlorotoluene	ND	ug/kg	25.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	25.					
Hexachlorobutadiene	ND	ug/kg	25.					
Isopropylbenzene	ND	ug/kg	25.					
p-Isopropyltoluene	ND	ug/kg	25.					
Naphthalene	ND	ug/kg	25.					
n-Propylbenzene	ND	ug/kg	25.					
1,2,3-Trichlorobenzene	ND	ug/kg	25.					
1,2,4-Trichlorobenzene	ND	ug/kg	25.					
1,3,5-Trimethylbenzene	ND	ug/kg	25.					
1,2,4-Trimethylbenzene	ND	ug/kg	25.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	25.					
Ethyl ether	ND	ug/kg	130					
SURROGATE RECOVERY								
Toluene-d8	83.0	%						
4-Bromofluorobenzene	101.	%						
Dibromofluoromethane	86.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507825-11
9510080-05
Sample Matrix: SOIL

Date Collected: 05-OCT-95
Date Received : 12-OCT-95
Date Reported : 19-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	83.	%	0.10	3	2540B		18-Oct	ST
Volatile Organics by GC/MS				1	8260	16-Oct	16-Oct	DB
Methylene chloride	ND	ug/kg	25.					
1,1-Dichloroethane	ND	ug/kg	7.5					
Chloroform	ND	ug/kg	7.5					
Carbon tetrachloride	ND	ug/kg	5.0					
1,2-Dichloropropane	ND	ug/kg	18.					
Dibromochloromethane	ND	ug/kg	5.0					
1,1,2-Trichloroethane	ND	ug/kg	7.5					
2-Chloroethylvinyl ether	ND	ug/kg	50.					
Tetrachloroethene	ND	ug/kg	7.5					
Chlorobenzene	ND	ug/kg	18.					
Trichlorofluoromethane	ND	ug/kg	25.					
1,2-Dichloroethane	ND	ug/kg	7.5					
1,1,1-Trichloroethane	ND	ug/kg	5.0					
Bromodichloromethane	ND	ug/kg	5.0					
trans-1,3-Dichloropropene	ND	ug/kg	7.5					
cis-1,3-Dichloropropene	ND	ug/kg	5.0					
Bromoform	ND	ug/kg	5.0					
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0					
Benzene	ND	ug/kg	5.0					
Toluene	ND	ug/kg	7.5					
Ethylbenzene	ND	ug/kg	5.0					
Chloromethane	ND	ug/kg	50.					
Bromomethane	ND	ug/kg	10.					
Vinyl chloride	ND	ug/kg	18.					
Chloroethane	ND	ug/kg	10.					
1,1-Dichloroethene	ND	ug/kg	7.5					
trans-1,2-Dichloroethene	ND	ug/kg	7.5					
Trichloroethene	ND	ug/kg	5.0					
1,2-Dichlorobenzene	ND	ug/kg	50.					
1,3-Dichlorobenzene	ND	ug/kg	50.					
1,4-Dichlorobenzene	ND	ug/kg	50.					
Methyl tert butyl ether	ND	ug/kg	50.					
Xylenes	ND	ug/kg	5.0					
cis-1,2-Dichloroethene	ND	ug/kg	5.0					
Dibromomethane	ND	ug/kg	50.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507825-11
9510080-05

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	16-Oct	16-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	50.					
Iodomethane	ND	ug/kg	50.					
1,2,3-Trichloropropane	ND	ug/kg	50.					
Styrene	ND	ug/kg	5.0					
Dichlorodifluoromethane	ND	ug/kg	50.					
Acetone	ND	ug/kg	50.					
Carbon Disulfide	ND	ug/kg	50.					
2-Butanone	ND	ug/kg	23.					
Vinyl Acetate	ND	ug/kg	50.					
4-Methyl-2-pentanone	ND	ug/kg	50.					
2-Hexanone	ND	ug/kg	50.					
Ethyl methacrylate	ND	ug/kg	50.					
Acrolein	ND	ug/kg	130					
Acrylonitrile	ND	ug/kg	50.					
Bromochloromethane	ND	ug/kg	25.					
2,2-Dichloropropane	ND	ug/kg	25.					
1,2-Dibromoethane	ND	ug/kg	25.					
1,3-Dichloropropane	ND	ug/kg	25.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	25.					
Bromobenzene	ND	ug/kg	25.					
n-Butylbenzene	ND	ug/kg	25.					
sec-Butylbenzene	ND	ug/kg	25.					
tert-Butylbenzene	ND	ug/kg	25.					
o-Chlorotoluene	ND	ug/kg	25.					
p-Chlorotoluene	ND	ug/kg	25.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	25.					
Hexachlorobutadiene	ND	ug/kg	25.					
Isopropylbenzene	ND	ug/kg	25.					
p-Isopropyltoluene	ND	ug/kg	25.					
Naphthalene	ND	ug/kg	25.					
n-Propylbenzene	ND	ug/kg	25.					
1,2,3-Trichlorobenzene	ND	ug/kg	25.					
1,2,4-Trichlorobenzene	ND	ug/kg	25.					
1,3,5-Trimethylbenzene	ND	ug/kg	25.					
1,2,4-Trimethylbenzene	ND	ug/kg	25.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	25.					
Ethyl ether	ND	ug/kg	130					

SURROGATE RECOVERY

Toluene-d8	87.0	%
4-Bromofluorobenzene	98.0	%
Dibromofluoromethane	83.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507825-12
9510080-07
Sample Matrix: SOIL

Date Collected: 04-OCT-95
Date Received : 12-OCT-95
Date Reported : 19-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	83.	%	0.10	3	2540B		18-Oct	ST
Volatile Organics by GC/MS				1	8260	16-Oct	16-Oct	DB
Methylene chloride	ND	ug/kg	25.					
1,1-Dichloroethane	ND	ug/kg	7.5					
Chloroform	ND	ug/kg	7.5					
Carbon tetrachloride	ND	ug/kg	5.0					
1,2-Dichloropropane	ND	ug/kg	18.					
Dibromochloromethane	ND	ug/kg	5.0					
1,1,2-Trichloroethane	ND	ug/kg	7.5					
2-Chloroethylvinyl ether	ND	ug/kg	50.					
Tetrachloroethene	ND	ug/kg	7.5					
Chlorobenzene	ND	ug/kg	18.					
Trichlorofluoromethane	ND	ug/kg	25.					
1,2-Dichloroethane	ND	ug/kg	7.5					
1,1,1-Trichloroethane	ND	ug/kg	5.0					
Bromodichloromethane	ND	ug/kg	5.0					
trans-1,3-Dichloropropene	ND	ug/kg	7.5					
cis-1,3-Dichloropropene	ND	ug/kg	5.0					
Bromoform	ND	ug/kg	5.0					
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0					
Benzene	ND	ug/kg	5.0					
Toluene	ND	ug/kg	7.5					
Ethylbenzene	ND	ug/kg	5.0					
Chloromethane	ND	ug/kg	50.					
Bromomethane	ND	ug/kg	10.					
Vinyl chloride	ND	ug/kg	18.					
Chloroethane	ND	ug/kg	10.					
1,1-Dichloroethene	ND	ug/kg	7.5					
trans-1,2-Dichloroethene	ND	ug/kg	7.5					
Trichloroethene	ND	ug/kg	5.0					
1,2-Dichlorobenzene	ND	ug/kg	50.					
1,3-Dichlorobenzene	ND	ug/kg	50.					
1,4-Dichlorobenzene	ND	ug/kg	50.					
Methyl tert butyl ether	ND	ug/kg	50.					
Xylenes	ND	ug/kg	5.0					
cis-1,2-Dichloroethene	ND	ug/kg	5.0					
Dibromomethane	ND	ug/kg	50.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507825-12
9510080-07

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	16-Oct	16-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	50.					
Iodomethane	ND	ug/kg	50.					
1,2,3-Trichloropropane	ND	ug/kg	50.					
Styrene	ND	ug/kg	5.0					
Dichlorodifluoromethane	ND	ug/kg	50.					
Acetone	ND	ug/kg	50.					
Carbon Disulfide	ND	ug/kg	50.					
2-Butanone	ND	ug/kg	23.					
Vinyl Acetate	ND	ug/kg	50.					
4-Methyl-2-pentanone	ND	ug/kg	50.					
2-Hexanone	ND	ug/kg	50.					
Ethyl methacrylate	ND	ug/kg	50.					
Acrolein	ND	ug/kg	130					
Acrylonitrile	ND	ug/kg	50.					
Bromochloromethane	ND	ug/kg	25.					
2,2-Dichloropropane	ND	ug/kg	25.					
1,2-Dibromoethane	ND	ug/kg	25.					
1,3-Dichloropropane	ND	ug/kg	25.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	25.					
Bromobenzene	ND	ug/kg	25.					
n-Butylbenzene	ND	ug/kg	25.					
sec-Butylbenzene	ND	ug/kg	25.					
tert-Butylbenzene	ND	ug/kg	25.					
o-Chlorotoluene	ND	ug/kg	25.					
p-Chlorotoluene	ND	ug/kg	25.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	25.					
Hexachlorobutadiene	ND	ug/kg	25.					
Isopropylbenzene	ND	ug/kg	25.					
p-Isopropyltoluene	ND	ug/kg	25.					
Naphthalene	ND	ug/kg	25.					
n-Propylbenzene	ND	ug/kg	25.					
1,2,3-Trichlorobenzene	ND	ug/kg	25.					
1,2,4-Trichlorobenzene	ND	ug/kg	25.					
1,3,5-Trimethylbenzene	ND	ug/kg	25.					
1,2,4-Trimethylbenzene	ND	ug/kg	25.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	25.					
Ethyl ether	ND	ug/kg	130					
SURROGATE RECOVERY								
Toluene-d8	83.0	%						
4-Bromofluorobenzene	89.0	%						
Dibromofluoromethane	93.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507825-13
9510080-08
Sample Matrix: SOIL

Date Collected: 04-OCT-95
Date Received : 12-OCT-95
Date Reported : 19-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	91.	%	0.10	3	2540B		18-Oct	ST
Volatile Organics by GC/MS				1	8260		17-Oct	DB
Methylene chloride	ND	ug/kg	25.					
1,1-Dichloroethane	ND	ug/kg	7.5					
Chloroform	ND	ug/kg	7.5					
Carbon tetrachloride	ND	ug/kg	5.0					
1,2-Dichloropropane	ND	ug/kg	18.					
Dibromochloromethane	ND	ug/kg	5.0					
1,1,2-Trichloroethane	ND	ug/kg	7.5					
2-Chloroethylvinyl ether	ND	ug/kg	50.					
Tetrachloroethene	ND	ug/kg	7.5					
Chlorobenzene	ND	ug/kg	18.					
Trichlorofluoromethane	ND	ug/kg	25.					
1,2-Dichloroethane	ND	ug/kg	7.5					
1,1,1-Trichloroethane	ND	ug/kg	5.0					
Bromodichloromethane	ND	ug/kg	5.0					
trans-1,3-Dichloropropene	ND	ug/kg	7.5					
cis-1,3-Dichloropropene	ND	ug/kg	5.0					
Bromoform	ND	ug/kg	5.0					
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0					
Benzene	ND	ug/kg	5.0					
Toluene	ND	ug/kg	7.5					
Ethylbenzene	ND	ug/kg	5.0					
Chloromethane	ND	ug/kg	50.					
Bromomethane	ND	ug/kg	10.					
Vinyl chloride	ND	ug/kg	18.					
Chloroethane	ND	ug/kg	10.					
1,1-Dichloroethene	ND	ug/kg	7.5					
trans-1,2-Dichloroethene	ND	ug/kg	7.5					
Trichloroethene	ND	ug/kg	5.0					
1,2-Dichlorobenzene	ND	ug/kg	50.					
1,3-Dichlorobenzene	ND	ug/kg	50.					
1,4-Dichlorobenzene	ND	ug/kg	50.					
Methyl tert butyl ether	ND	ug/kg	50.					
Xylenes	ND	ug/kg	5.0					
cis-1,2-Dichloroethene	ND	ug/kg	5.0					
Dibromomethane	ND	ug/kg	50.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507825-13
9510080-08

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260		17-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	50.					
Iodomethane	ND	ug/kg	50.					
1,2,3-Trichloropropane	ND	ug/kg	50.					
Styrene	ND	ug/kg	5.0					
Dichlorodifluoromethane	ND	ug/kg	50.					
Acetone	ND	ug/kg	50.					
Carbon Disulfide	ND	ug/kg	50.					
2-Butanone	ND	ug/kg	23.					
Vinyl Acetate	ND	ug/kg	50.					
4-Methyl-2-pentanone	ND	ug/kg	50.					
2-Hexanone	ND	ug/kg	50.					
Ethyl methacrylate	ND	ug/kg	50.					
Acrolein	ND	ug/kg	130					
Acrylonitrile	ND	ug/kg	50.					
Bromochloromethane	ND	ug/kg	25.					
2,2-Dichloropropane	ND	ug/kg	25.					
1,2-Dibromoethane	ND	ug/kg	25.					
1,3-Dichloropropane	ND	ug/kg	25.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	25.					
Bromobenzene	ND	ug/kg	25.					
n-Butylbenzene	ND	ug/kg	25.					
sec-Butylbenzene	ND	ug/kg	25.					
tert-Butylbenzene	ND	ug/kg	25.					
o-Chlorotoluene	ND	ug/kg	25.					
p-Chlorotoluene	ND	ug/kg	25.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	25.					
Hexachlorobutadiene	ND	ug/kg	25.					
Isopropylbenzene	ND	ug/kg	25.					
p-Isopropyltoluene	ND	ug/kg	25.					
Naphthalene	ND	ug/kg	25.					
n-Propylbenzene	ND	ug/kg	25.					
1,2,3-Trichlorobenzene	ND	ug/kg	25.					
1,2,4-Trichlorobenzene	ND	ug/kg	25.					
1,3,5-Trimethylbenzene	ND	ug/kg	25.					
1,2,4-Trimethylbenzene	ND	ug/kg	25.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	25.					
Ethyl ether	ND	ug/kg	130					
SURROGATE RECOVERY								
Toluene-d8	91.0	%						
4-Bromofluorobenzene	85.0	%						
Dibromofluoromethane	93.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507825-14
9510080-09
Sample Matrix: SOIL

Date Collected: 04-OCT-95
Date Received : 12-OCT-95
Date Reported : 19-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	89.	%	0.10	3	2540B		18-Oct	ST
Volatile Organics by GC/MS				1	8260	16-Oct	16-Oct	DB
Methylene chloride	ND	ug/kg	50.					
1,1-Dichloroethane	ND	ug/kg	15.					
Chloroform	ND	ug/kg	15.					
Carbon tetrachloride	ND	ug/kg	10.					
1,2-Dichloropropane	ND	ug/kg	35.					
Dibromochloromethane	ND	ug/kg	10.					
1,1,2-Trichloroethane	ND	ug/kg	15.					
2-Chloroethylvinyl ether	ND	ug/kg	100					
Tetrachloroethene	ND	ug/kg	15.					
Chlorobenzene	ND	ug/kg	35.					
Trichlorofluoromethane	ND	ug/kg	50.					
1,2-Dichloroethane	ND	ug/kg	15.					
1,1,1-Trichloroethane	ND	ug/kg	10.					
Bromodichloromethane	ND	ug/kg	10.					
trans-1,3-Dichloropropene	ND	ug/kg	15.					
cis-1,3-Dichloropropene	ND	ug/kg	10.					
Bromoform	ND	ug/kg	10.					
1,1,2,2-Tetrachloroethane	ND	ug/kg	10.					
Benzene	ND	ug/kg	10.					
Toluene	ND	ug/kg	15.					
Ethylbenzene	ND	ug/kg	10.					
Chloromethane	ND	ug/kg	100					
Bromomethane	ND	ug/kg	20.					
Vinyl chloride	ND	ug/kg	35.					
Chloroethane	ND	ug/kg	20.					
1,1-Dichloroethene	ND	ug/kg	15.					
trans-1,2-Dichloroethene	ND	ug/kg	15.					
Trichloroethene	ND	ug/kg	10.					
1,2-Dichlorobenzene	330	ug/kg	100					
1,3-Dichlorobenzene	ND	ug/kg	100					
1,4-Dichlorobenzene	ND	ug/kg	100					
Methyl tert butyl ether	ND	ug/kg	100					
Xylenes	290	ug/kg	10.					
cis-1,2-Dichloroethene	64.	ug/kg	10.					
Dibromomethane	ND	ug/kg	100					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507825-14
9510080-09

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	16-Oct	16-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	100					
Iodomethane	ND	ug/kg	100					
1,2,3-Trichloropropane	ND	ug/kg	100					
Styrene	ND	ug/kg	10.					
Dichlorodifluoromethane	ND	ug/kg	100					
Acetone	ND	ug/kg	100					
Carbon Disulfide	ND	ug/kg	100					
2-Butanone	ND	ug/kg	45.					
Vinyl Acetate	ND	ug/kg	100					
4-Methyl-2-pentanone	ND	ug/kg	100					
2-Hexanone	ND	ug/kg	100					
Ethyl methacrylate	ND	ug/kg	100					
Acrolein	ND	ug/kg	250					
Acrylonitrile	ND	ug/kg	100					
Bromochloromethane	ND	ug/kg	50.					
2,2-Dichloropropane	ND	ug/kg	50.					
1,2-Dibromoethane	ND	ug/kg	50.					
1,3-Dichloropropane	ND	ug/kg	50.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	50.					
Bromobenzene	ND	ug/kg	50.					
n-Butylbenzene	400	ug/kg	50.					
sec-Butylbenzene	260	ug/kg	50.					
tert-Butylbenzene	ND	ug/kg	50.					
o-Chlorotoluene	ND	ug/kg	50.					
p-Chlorotoluene	ND	ug/kg	50.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	50.					
Hexachlorobutadiene	ND	ug/kg	50.					
Isopropylbenzene	ND	ug/kg	50.					
p-Isopropyltoluene	200	ug/kg	50.					
Naphthalene	310	ug/kg	50.					
n-Propylbenzene	ND	ug/kg	50.					
1,2,3-Trichlorobenzene	ND	ug/kg	50.					
1,2,4-Trichlorobenzene	ND	ug/kg	50.					
1,3,5-Trimethylbenzene	470	ug/kg	50.					
1,2,4-Trimethylbenzene	920	ug/kg	50.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	50.					
Ethyl ether	ND	ug/kg	250					
SURROGATE RECOVERY								
Toluene-d8	92.0	%						
4-Bromofluorobenzene	101.	%						
Dibromofluoromethane	92.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L9507825

Parameter	MS %	MSD %	RPD
Volatile Organics by GC/MS Spike Recovery MS/MSD for sample(s) 10-14			
1,1-Dichloroethene	100	94	6
Trichloroethene	93	96	3
Benzene	95	95	0
Toluene	91	90	1
Chlorobenzene	93	93	0
Volatile Organics by GC/MS Spike Recovery MS/MSD for sample(s) 06-09			
1,1-Dichloroethene	115	120	4
Trichloroethene	100	106	6
Benzene	103	113	9
Toluene	95	101	6
Chlorobenzene	102	103	1
Volatile Organics by GC/MS Spike Recovery MS/MSD for sample(s) 01-05			
1,1-Dichloroethene	91	94	3
Trichloroethene	99	100	1
Benzene	97	95	2
Toluene	94	94	0
Chlorobenzene	100	110	10

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. 1986.

3. Standard Methods for Examination of Water and Waste Water. APHA-AWWA-WPCF. 17th Edition. 1989.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.

METHOD Method number by which analysis was performed.

ID Initials of the analyst.

Quanterra Environmental Services

Quanterra Incorporated
450 William Pitt Way
Pittsburgh, Pennsylvania 15238

412 826-5477 Telephone
412 826-5571 Fax

ANALYTICAL REPORT

PROJECT NO. 9510080

CLEAN HARBOR

MICHAEL J. WEDGE

CLEAN HARBORS ANALYTICAL

QUANTERRA INCORPORATED

Adrinnia L. Washington

Adrinnia Washington
Project Manager

October 23, 1995

Quanterra
Environmental Services

NARRATIVE

The following report contains the analytical results for samples submitted to Quanterra Incorporated. The samples were received into the laboratory in accordance with documented sample acceptance procedures.

Quanterra utilizes USEPA approved methods and instrumentation in all analytical work. The methods used for the analyses presented in this study can be found on the following pages.

A Quality Control Section, containing a summary of QA/QC data for these analyses, is included at the end of the report.

The following codes are utilized in various analyses of this report:

ND	(None Detected)
DIL	(Diluted Out)
MI	(Matrix Interference)
NEG	(Negative)
J	(Detected, but below quantitation limit; estimated value)
B	(Compounds detected in method blank associated with this sample)
W	(Post digestion spike recovery fell between 40 - 85 %)
S	(Sample result determined by the Method of Standard Additions)
+	(Sample result determined by the Method of Standard Additions and the correlation coefficient was less than 0.995)

Quanterra
Environmental Services

CASE NARRATIVE

Due to the sample matrix, the compound indeno(1,2,3-cd) pyrene for samples 9510080-08Q and 09Q is reported as a matrix interference (MI). However, the value is estimated as maximum concentration. The laboratory control sample is outside for QC limits.

Quanterra
Environmental Services

ANALYTICAL METHODS SUMMARY

Parameters	Methods
Polynuclear Aromatic Hydrocarbons	SW846 8310
Hydrocarbons	
Solids, Total (TS)	MCAWW 160.3 MODIFIED

References:

MCAWW Methods for Chemical Analysis of Water and Wastes, EMSL: Cincinnati, OH: March 1983 and subsequent revisions

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, September, 1986 and subsequent revisions

Quanterra
Environmental Services

SAMPLE SUMMARY

The analytical results of the samples listed below are presented on the following pages.

WO #	LABORATORY ID	SAMPLE IDENTIFICATION	DATE/TIME SAMPLED
A5P7A	C5J090003-001	9510080-01Q	10/05/95
A5P7C	C5J090003-002	9510080-02Q	10/05/95
A5P7D	C5J090003-003	9510080-05Q	10/05/95
A5P7E	C5J090003-004	9510080-07Q	10/04/95
A5P7F	C5J090003-005	9510080-08Q	10/04/95
A5P7G	C5J090003-006	9510080-09Q	10/04/95

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510080-01Q

WO #: A5P7A101
LAB #: C5J090003-001
MATRIX: SOLID
DILUTION FACTOR: 1.00

DATE SAMPLED: 10/05/95
TIME SAMPLED:
DATE RECEIVED: 10/09/95

REQUESTED PARAMETERS

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	40	SW846 8310	10/11-10/18/95	5284020
Acenaphthylene	ND	40	SW846 8310	10/11-10/18/95	5284020
Acenaphthene	**220**	**40**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Fluorene	ND	8.1	SW846 8310	10/11-10/18/95	5284020
Phenanthrene	**28**	**21**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Anthracene	ND	21	SW846 8310	10/11-10/18/95	5284020
Fluoranthene	**56**	**8.1**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Pyrene	**46**	**8.1**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Benzo(a)anthracene	**24**	**0.81**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Chrysene	**37**	**6.0**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Benzo(b)fluoranthene	**25**	**0.81**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Benzo(k)fluoranthene	**13**	**0.81**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Benzo(a)pyrene	**31**	**0.81**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Indeno(1,2,3-cd)pyrene	**17**	**2.1**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Dibenzo(a,h)anthracene	**3.3**	**1.2**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Benzo(g,h,i)perylene	**27**	**2.1**	**SW846 8310**	**10/11-10/18/95**	**5284020**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	114	(36 - 144)
2-Fluorobiphenyl	67	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510080-01Q

WO #: A5P7A
LAB #: C5J090003-001
MATRIX: SOLID

DATE SAMPLED: 10/05/95
TIME SAMPLED:
DATE RECEIVED: 10/09/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**82.7**		**%**	**MCAWW 160.3 M**	**10/10/95**	**5283038**

NOTE: DRY WEIGHT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510080-02Q

WO #: A5P7C101
LAB #: C5J090003-002
MATRIX: SOLID
DILUTION FACTOR: 1.00

DATE SAMPLED: 10/05/95
TIME SAMPLED:
DATE RECEIVED: 10/09/95

- - - - - - - - - - - - - - - - - - REQUESTED PARAMETERS - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	40	SW846 8310	10/11-10/18/95	5284020
Acenaphthylene	ND	40	SW846 8310	10/11-10/18/95	5284020
Acenaphthene	ND	40	SW846 8310	10/11-10/18/95	5284020
Fluorene	ND	8.1	SW846 8310	10/11-10/18/95	5284020
Phenanthrene	ND	21	SW846 8310	10/11-10/18/95	5284020
Anthracene	ND	21	SW846 8310	10/11-10/18/95	5284020
Fluoranthene	**9.5**	**8.1**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Pyrene	ND	8.1	SW846 8310	10/11-10/18/95	5284020
Benzo(a)anthracene	**3.7**	**0.81**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Chrysene	ND	6.0	SW846 8310	10/11-10/18/95	5284020
Benzo(b)fluoranthene	**4.0**	**0.81**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Benzo(k)fluoranthene	**2.1**	**0.81**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Benzo(a)pyrene	**4.5**	**0.81**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Indeno(1,2,3-cd)pyrene	**3.6**	**2.1**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Dibenzo(a,h)anthracene	ND	1.2	SW846 8310	10/11-10/18/95	5284020
Benzo(g,h,i)perylene	**4.6**	**2.1**	**SW846 8310**	**10/11-10/18/95**	**5284020**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	96	(36 - 144)
2-Fluorobiphenyl	75	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510080-02Q

WO #: A5P7C
LAB #: C5J090003-002
MATRIX: SOLID

DATE SAMPLED: 10/05/95
TIME SAMPLED:
DATE RECEIVED: 10/09/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**82.9**		**%**	**MCAWW 160.3 M**	**10/10/95**	**5283038**

NOTE: DRY WEIGHT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510080-05Q

WO #: A5P7D101
LAB #: C5J090003-003
MATRIX: SOLID
DILUTION FACTOR: 1.00

DATE SAMPLED: 10/05/95
TIME SAMPLED:
DATE RECEIVED: 10/09/95

REQUESTED PARAMETERS

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	41	SW846 8310	10/11-10/18/95	5284020
Acenaphthylene	ND	41	SW846 8310	10/11-10/18/95	5284020
Acenaphthene	ND	41	SW846 8310	10/11-10/18/95	5284020
Fluorene	ND	8.3	SW846 8310	10/11-10/18/95	5284020
Phenanthrene	ND	21	SW846 8310	10/11-10/18/95	5284020
Anthracene	ND	21	SW846 8310	10/11-10/18/95	5284020
Fluoranthene	ND	8.3	SW846 8310	10/11-10/18/95	5284020
Pyrene	ND	8.3	SW846 8310	10/11-10/18/95	5284020
Benzo(a)anthracene	ND	0.83	SW846 8310	10/11-10/18/95	5284020
Chrysene	ND	6.2	SW846 8310	10/11-10/18/95	5284020
Benzo(b)fluoranthene	ND	0.83	SW846 8310	10/11-10/18/95	5284020
Benzo(k)fluoranthene	ND	0.83	SW846 8310	10/11-10/18/95	5284020
Benzo(a)pyrene	ND	0.83	SW846 8310	10/11-10/18/95	5284020
Indeno(1,2,3-cd)pyrene	ND	2.1	SW846 8310	10/11-10/18/95	5284020
Dibenzo(a,h)anthracene	ND	1.2	SW846 8310	10/11-10/18/95	5284020
Benzo(g,h,i)perylene	ND	2.1	SW846 8310	10/11-10/18/95	5284020

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	89	(36 - 144)
2-Fluorobiphenyl	74	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510080-05Q

WO #: A5P7D
LAB #: C5J090003-003
MATRIX: SOLID

DATE SAMPLED: 10/05/95
TIME SAMPLED:
DATE RECEIVED: 10/09/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**80.4**		**%**	**MCAWW 160.3 M**	**10/10/95**	**5283038**

NOTE: DRY WEIGHT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510080-07Q

WO #: A5P7E101
LAB #: C5J090003-004
MATRIX: SOLID
DILUTION FACTOR: 1.00

DATE SAMPLED: 10/04/95
TIME SAMPLED:
DATE RECEIVED: 10/09/95

- - - - - - - - - - - - - - - - - - REQUESTED PARAMETERS - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	40	SW846 8310	10/11-10/18/95	5284020
Acenaphthylene	ND	40	SW846 8310	10/11-10/18/95	5284020
Acenaphthene	ND	40	SW846 8310	10/11-10/18/95	5284020
Fluorene	ND	8.1	SW846 8310	10/11-10/18/95	5284020
Phenanthrene	ND	20	SW846 8310	10/11-10/18/95	5284020
Anthracene	ND	20	SW846 8310	10/11-10/18/95	5284020
Fluoranthene	ND	8.1	SW846 8310	10/11-10/18/95	5284020
Pyrene	ND	8.1	SW846 8310	10/11-10/18/95	5284020
Benzo(a)anthracene	**1.0**	**0.81**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Chrysene	ND	6.0	SW846 8310	10/11-10/18/95	5284020
Benzo(b)fluoranthene	**3.2**	**0.81**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Benzo(k)fluoranthene	**1.2**	**0.81**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Benzo(a)pyrene	**2.8**	**0.81**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Indeno(1,2,3-cd)pyrene	ND	2.0	SW846 8310	10/11-10/18/95	5284020
Dibenzo(a,h)anthracene	ND	1.2	SW846 8310	10/11-10/18/95	5284020
Benzo(g,h,i)perylene	**4.1**	**2.0**	**SW846 8310**	**10/11-10/18/95**	**5284020**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	96	(36 - 144)
2-Fluorobiphenyl	73	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510080-07Q

WO #: A5P7E
LAB #: C5J090003-004
MATRIX: SOLID

DATE SAMPLED: 10/04/95
TIME SAMPLED:
DATE RECEIVED: 10/09/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**83.2**		**%**	**MCAWW 160.3 M**	**10/10/95**	**5283038**

NOTE: DRY WEIGHT

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

9510080-08Q

WO #: A5P7F101
LAB #: C5J090003-005
MATRIX: SOLID
DILUTION FACTOR: 90.00

DATE SAMPLED: 10/04/95
TIME SAMPLED:
DATE RECEIVED: 10/09/95

- - - - - - - - - - - - - - - - - - REQUESTED PARAMETERS - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	3,200	SW846 8310	10/11-10/20/95	5284020
Acenaphthylene	ND	3,200	SW846 8310	10/11-10/20/95	5284020
Acenaphthene	**3,200**	**3,200**	**SW846 8310**	**10/11-10/20/95**	**5284020**
Fluorene	**730**	**640**	**SW846 8310**	**10/11-10/20/95**	**5284020**
Phenanthrene	**5,600**	**1,600**	**SW846 8310**	**10/11-10/20/95**	**5284020**
Anthracene	**1,600**	**1,600**	**SW846 8310**	**10/11-10/20/95**	**5284020**
Fluoranthene	**7,000**	**640**	**SW846 8310**	**10/11-10/20/95**	**5284020**
Pyrene	**7,600**	**640**	**SW846 8310**	**10/11-10/20/95**	**5284020**
Benzo(a)anthracene	**3,000**	**64**	**SW846 8310**	**10/11-10/20/95**	**5284020**
Chrysene	**3,700**	**480**	**SW846 8310**	**10/11-10/20/95**	**5284020**
Benzo(b)fluoranthene	**2,300**	**64**	**SW846 8310**	**10/11-10/20/95**	**5284020**
Benzo(k)fluoranthene	**1,300**	**64**	**SW846 8310**	**10/11-10/20/95**	**5284020**
Benzo(a)pyrene	**2,800**	**64**	**SW846 8310**	**10/11-10/20/95**	**5284020**
Indeno(1,2,3-cd)pyrene	**MI (6,500)**	**160**	**SW846 8310**	**10/11-10/20/95**	**5284020**
Dibenzo(a,h)anthracene	**210**	**96**	**SW846 8310**	**10/11-10/20/95**	**5284020**
Benzo(g,h,i)perylene	**2,300**	**160**	**SW846 8310**	**10/11-10/20/95**	**5284020**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	DIL	(36 - 144)
2-Fluorobiphenyl	DIL	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510080-08Q

WO #: A5P7F
LAB #: C5J090003-005
MATRIX: SOLID

DATE SAMPLED: 10/04/95
TIME SAMPLED:
DATE RECEIVED: 10/09/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**93.7**		**%**	**MCAWW 160.3 M**	**10/10/95**	**5283038**

NOTE: DRY WEIGHT

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

9510080-09Q

WO #: A5P7G101
LAB #: C5J090003-006
MATRIX: SOLID
DILUTION FACTOR: 20.00

DATE SAMPLED: 10/04/95
TIME SAMPLED:
DATE RECEIVED: 10/09/95

REQUESTED PARAMETERS

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	750	SW846 8310	10/11-10/20/95	5284020
Acenaphthylene	ND	750	SW846 8310	10/11-10/20/95	5284020
Acenaphthene	ND	750	SW846 8310	10/11-10/20/95	5284020
Fluorene	**180**	**150**	**SW846 8310**	**10/11-10/20/95**	**5284020**
Phenanthrene	**560**	**390**	**SW846 8310**	**10/11-10/20/95**	**5284020**
Anthracene	ND	390	SW846 8310	10/11-10/20/95	5284020
Fluoranthene	**430**	**150**	**SW846 8310**	**10/11-10/20/95**	**5284020**
Pyrene	**310**	**150**	**SW846 8310**	**10/11-10/20/95**	**5284020**
Benzo(a)anthracene	**170**	**15**	**SW846 8310**	**10/11-10/20/95**	**5284020**
Chrysene	**500**	**110**	**SW846 8310**	**10/11-10/20/95**	**5284020**
Benzo(b)fluoranthene	**150**	**15**	**SW846 8310**	**10/11-10/20/95**	**5284020**
Benzo(k)fluoranthene	**51**	**15**	**SW846 8310**	**10/11-10/20/95**	**5284020**
Benzo(a)pyrene	**220**	**15**	**SW846 8310**	**10/11-10/20/95**	**5284020**
Indeno(1,2,3-cd)pyrene	**MI (61)**	**39**	**SW846 8310**	**10/11-10/20/95**	**5284020**
Dibenzo(a,h)anthracene	ND	23	SW846 8310	10/11-10/20/95	5284020
Benzo(g,h,i)perylene	**150**	**39**	**SW846 8310**	**10/11-10/20/95**	**5284020**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	DIL	(36 - 144)
2-Fluorobiphenyl	DIL	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510080-09Q

WO #: A5P7G
LAB #: C5J090003-006
MATRIX: SOLID

DATE SAMPLED: 10/04/95
TIME SAMPLED:
DATE RECEIVED: 10/09/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**88.0**		**%**	**MCAWW 160.3 M**	**10/10/95**	**5283038**

NOTE: DRY WEIGHT

Quanterra
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QUALITY CONTROL SECTION

Quanterra
Environmental Services

QUALITY ASSURANCE/QUALITY CONTROL PROGRAM SUMMARY

Quanterra Incorporated considers continuous analytical performance evaluations to be an integral portion of the data package, and routinely includes the pertinent QA/QC data associated with various analytical reports. Brief discussions of the various QA/QC procedures utilized to measure acceptable method and matrix performance follow.

SURROGATE SPIKE RECOVERY EVALUATIONS

Known concentrations of designated surrogate spikes, consisting of a number of similar, non-method compounds or method compounds analogues, are added, as appropriate, to routine GC and GC/MS sample fractions prior to extraction and analysis. The percent recoveries calculated from the subsequent spike recovery data is displayed alongside acceptable analytical method performance limits at the bottom of each applicable analytical result report sheet.

NOTE: Acceptable method performance for Base/Neutral Acid extractables is indicated by two (2) of three (3) surrogates for each fraction with a minimum recovery of ten percent (10%) each. For Pesticides, one (1) of two (2) surrogates meeting performance criteria is acceptable.

LABORATORY ANALYTICAL METHOD BLANK EVALUATIONS

Laboratory analytical method blanks are systematically prepared and analyzed in order to continuously evaluate the system interferences and background contamination levels associated with each analytical method. These method blanks include all aspects of actual laboratory method analysis (chemical reagents, glassware, etc.) substituting laboratory reagent water or solid for actual sample. The method blank must not contain any analytes above the reported detection limit. The following common laboratory contaminants are exceptions to this rule, provided they are not present at a greater than five times the detection limit.

Volatiles	Semi-volatiles
Methylene chloride	Dimethyl phthalate
2-Butanone	Diethyl phthalate
Acetone	Di-n-butyl phthalate
	Butyl benzyl phthalate
	Bis (2-ethylhexyl) phthalate

A minimum of five percent (5%) of all laboratory analyses are laboratory analytical method blanks.

QUALITY ASSURANCE/QUALITY CONTROL PROGRAM SUMMARY (CONT)

LABORATORY ANALYTICAL METHOD CHECK SAMPLE EVALUATIONS

Known concentrations of designated matrix spikes (actual analytical method compounds) are added to a laboratory reagent blank prior to extraction and analysis. Percent recovery determinations demonstrate the performance of the analytical method. Failure of a check sample to meet established laboratory recovery criteria is cause to stop the analysis until the problem is resolved. All compounds must meet laboratory recovery criteria. A minimum of five percent (5%) of all laboratory analyses are laboratory analytical method check samples.

MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD) RECOVERY EVALUATION

Known concentration of designated matrix spikes (actual analytical method compounds) are added to two of three separate aliquots of a sequentially predetermined sample prior to extraction and analysis. Percent recovery determinations are calculated from both of the spiked samples by comparison to the actual values generated from the unspiked sample. These percent recovery determinations indicate the accuracy of the analysis at recovering actual analytical method compounds from the matrix. Actual percent recovery data is displayed alongside the acceptable analytical method performance limits in the QA/QC section of the report. The MS/MSD are considered in control when the associated check sample has been found to be acceptable. A minimum of ten percent (10%) of all analyses are MS/MSD quality control samples.

EXAMPLE

COMPOUND	SAMPLE CONCENTRATION	MS % RECOVERY	MSD % RECOVERY	QC LIMITS[1] RECOVERY
4-4'-DDT	0	95	112	(66-119)
Benzene	10	86	93	(39-150)
compound name	sample result	1st % recovery	2nd % recovery	acceptable method limits

[1]QC limits are statistically derived from historical laboratory data. Where insufficient data exists to statistically derive these limits, they will be labelled "advisory". In this case, they are based on the best available technical information.

For metals analyses, the recoveries of the MS/MSD must be within the range of 80-120%. If they do not meet this criteria, but the RPD of the two results is <20% <u>OR</u> the absolute difference is less than 10% when the recoveries are below 50%, no corrective action is required. If these criteria are not met, the sample with its MS/MSD is reprepared and reanalyzed once more.

Quanterra
Environmental Services

INTRA-LAB BLANK REPORT

LAB #: C5J110000-020

- - - - - - - - - - - - - - - POLYNUCLEAR AROMATIC HYDROCARBONS - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	PREPARATION - ANALYSIS DATE	QC BATCH
Acenaphthene	ND	33	10/11-10/17/95	5284020
Acenaphthylene	ND	33	10/11-10/17/95	5284020
Anthracene	ND	17	10/11-10/17/95	5284020
Benzo(a)anthracene	ND	0.67	10/11-10/17/95	5284020
Benzo(b)fluoranthene	ND	0.67	10/11-10/17/95	5284020
Benzo(k)fluoranthene	ND	0.67	10/11-10/17/95	5284020
Benzo(g,h,i)perylene	ND	1.7	10/11-10/17/95	5284020
Benzo(a)pyrene	ND	0.67	10/11-10/17/95	5284020
Chrysene	ND	5.0	10/11-10/17/95	5284020
Fluoranthene	ND	6.7	10/11-10/17/95	5284020
Fluorene	ND	6.7	10/11-10/17/95	5284020
Indeno(1,2,3-cd)pyrene	ND	1.7	10/11-10/17/95	5284020
Naphthalene	ND	33	10/11-10/17/95	5284020
Phenanthrene	ND	17	10/11-10/17/95	5284020
Pyrene	ND	6.7	10/11-10/17/95	5284020
Dibenzo(a,h)anthracene	ND	1.0	10/11-10/17/95	5284020

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	109	(36 - 144)
2-Fluorobiphenyl	103	(47 - 143)

NOTE:

ND (NONE DETECTED)

Quanterra
Environmental Services

CHECK SAMPLE REPORT

QC BATCH: 5284020
LAB #: C5J110000-020 C
DILUTION FACTOR: 1.00

PREPARATION DATE: 10/11/95
DATE ANALYZED: 10/17/95

- - - - - - - - - - - - - - - **Polynuclear Aromatic Hydrocarbons** - - - - - - - - - - - - - -

COMPOUND	SPIKE PERCENT RECOVERY	Q/C LIMITS
Naphthalene	144	(52-163)
Phenanthrene	119	(67-123)
Fluoranthene	118	(65-125)
Chrysene	126	(74-124)
Benzo(a)pyrene	103	(48-129)
Indeno(1,2,3-cd)pyrene	135	(63-133)

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-6, SS-5
Sample Type: Soil

CHES Lab #: 9510080-010
Date Received: 10/05/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	ND	10/10/95	10/11/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
No significant hydrocarbons observed.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 72%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-6, SS-5
Sample Type: Soil

CHES Lab #: 9510080-01M
Date Received: 10/05/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	4	ND	10/13/95	10/16/95	3005/6010(c)
Arsenic - Total	7	ND	10/13/95	10/16/95	3050/6010(c)
Beryllium - Total	0.037	0.222	10/13/95	10/16/95	3050/6010(c)
Cadmium - Total	0.37	ND	10/13/95	10/16/95	3050/6010(c)
Chromium - Total	1.1	11	10/13/95	10/16/95	3050/6010(c)
Copper - Total	1.1	12	10/13/95	10/16/95	3050/6010(c)
Lead - Total	4	10	10/13/95	10/16/95	3050/6010(c)
Mercury - Total	0.0667	ND	10/13/95	10/17/95	7471(c)
Nickel - Total	1.1	5.9	10/13/95	10/16/95	3050/6010(c)
Selenium - Total	7	ND	10/13/95	10/16/95	3050/6010(c)
Silver - Total	0.75	ND	10/13/95	10/16/95	3005/6010(c)
Thallium - Total	10	ND	10/13/95	10/16/95	3050/6010(c)
Zinc - Total	1.5	24	10/13/95	10/16/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-6, SS-5
Sample Type: Soil

CHES Lab #: 9510080-01M
Date Received: 10/05/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	2.1	ND	mg/kg	10/10/95	9010(c)
Total Solids	--	83.6	%	10/06/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-10,SS-6
Sample Type: Soil

CHES Lab #: 9510080-020
Date Received: 10/05/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	14	10/10/95	10/11/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil with additional single component peaks.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 79%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-10,SS-6
Sample Type: Soil

CHES Lab #: 9510080-02M
Date Received: 10/05/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	4	ND	10/13/95	10/16/95	3005/6010(c)
Arsenic - Total	7	ND	10/13/95	10/16/95	3050/6010(c)
Beryllium - Total	0.036	0.073	10/13/95	10/16/95	3050/6010(c)
Cadmium - Total	0.36	ND	10/13/95	10/16/95	3050/6010(c)
Chromium - Total	1.1	4.8	10/13/95	10/16/95	3050/6010(c)
Copper - Total	1.1	2.8	10/13/95	10/17/95	3050/6010(c)
Lead - Total	4	4	10/13/95	10/16/95	3050/6010(c)
Mercury - Total	0.0745	ND	10/13/95	10/17/95	7471(c)
Nickel - Total	1.1	3.3	10/13/95	10/16/95	3050/6010(c)
Selenium - Total	7	ND	10/13/95	10/16/95	3050/6010(c)
Silver - Total	0.86	ND	10/13/95	10/16/95	3005/6010(c)
Thallium - Total	10	ND	10/13/95	10/16/95	3050/6010(c)
Zinc - Total	1.5	7.9	10/13/95	10/16/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-10,SS-6
Sample Type: Soil

CHES Lab #: 9510080-02M
Date Received: 10/05/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	1.8	ND	mg/kg	10/10/95	9010(c)
Total Solids	--	81.4	%	10/06/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9,SS-6
Sample Type: Soil

CHES Lab #: 9510080-050
Date Received: 10/05/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	ND	10/10/95	10/11/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
No significant hydrocarbons observed.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 76%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9,SS-6
Sample Type: Soil

CHES Lab #: 9510080-05M
Date Received: 10/05/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	4	ND	10/13/95	10/16/95	3005/6010(c)
Arsenic - Total	8	ND	10/13/95	10/16/95	3050/6010(c)
Beryllium - Total	0.042	0.127	10/13/95	10/16/95	3050/6010(c)
Cadmium - Total	0.42	ND	10/13/95	10/16/95	3050/6010(c)
Chromium - Total	1.3	6.0	10/13/95	10/16/95	3050/6010(c)
Copper - Total	1.3	3.0	10/13/95	10/16/95	3050/6010(c)
Lead - Total	4	ND	10/13/95	10/16/95	3050/6010(c)
Mercury - Total	0.0742	ND	10/13/95	10/17/95	7471(c)
Nickel - Total	1.3	ND	10/13/95	10/16/95	3050/6010(c)
Selenium - Total	8	ND	10/13/95	10/16/95	3050/6010(c)
Silver - Total	0.79	ND	10/13/95	10/16/95	3005/6010(c)
Thallium - Total	10	ND	10/13/95	10/16/95	3050/6010(c)
Zinc - Total	1.7	7.8	10/13/95	10/16/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9,SS-6
Sample Type: Soil

CHES Lab #: 9510080-05M
Date Received: 10/05/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	2.0	ND	mg/kg	10/10/95	9010(c)
Total Solids	--	82.5	%	10/06/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: COMPOSITE MW-9,SS-3,5,6
Sample Type: Soil

CHES Lab #: 9510080-06L
Date Received: 10/05/95

SIEVE ANALYSIS

by ASTM Method Mod. D422

Analysis Date: 10/18/95

SIEVE NUMBER	OPENING SIZE in MM	WEIGHT %
--	9.5	0.6
4	4.75	0.8
10	2.00	2.7
20	0.850	3.6
40	0.425	6.6
60	0.250	21.5
100	0.150	35.8
200	0.075	23.5
Bottom Tray	<0.075	4.6

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-9, SS-5
Sample Type: Soil

CHES Lab #: 9510080-070
Date Received: 10/05/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	13	10/10/95	10/11/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method. Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil with additional single component peaks.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 68%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-9, SS-5
Sample Type: Soil

CHES Lab #: 9510080-07M
Date Received: 10/05/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	3	ND	10/13/95	10/16/95	3005/6010(c)
Arsenic - Total	8	ND	10/13/95	10/16/95	3050/6010(c)
Beryllium - Total	0.041	0.122	10/13/95	10/16/95	3050/6010(c)
Cadmium - Total	0.41	ND	10/13/95	10/16/95	3050/6010(c)
Chromium - Total	1.2	5.1	10/13/95	10/16/95	3050/6010(c)
Copper - Total	1.2	3.9	10/13/95	10/16/95	3050/6010(c)
Lead - Total	4	5	10/13/95	10/16/95	3050/6010(c)
Mercury - Total	0.0692	ND	10/13/95	10/17/95	7471(c)
Nickel - Total	1.2	ND	10/13/95	10/16/95	3050/6010(c)
Selenium - Total	8	ND	10/13/95	10/16/95	3050/6010(c)
Silver - Total	0.70	ND	10/13/95	10/16/95	3005/6010(c)
Thallium - Total	10	ND	10/13/95	10/16/95	3050/6010(c)
Zinc - Total	1.6	7.7	10/13/95	10/16/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-9, SS-5
Sample Type: Soil

CHES Lab #: 9510080-07M
Date Received: 10/05/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	1.4	ND	mg/kg	10/11/95	9010(c)
Total Solids	--	81.4	%	10/06/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-4, SS-1
Sample Type: Soil

CHES Lab #: 9510080-080
Date Received: 10/05/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	22	660	10/10/95	10/11/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method. Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil with additional single component peaks.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-4, SS-1
Sample Type: Soil

CHES Lab #: 9510080-08M
Date Received: 10/05/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	3	ND	10/13/95	10/16/95	3005/6010(c)
Arsenic - Total	7	8	10/13/95	10/16/95	3050/6010(c)
Beryllium - Total	0.033	0.329	10/13/95	10/16/95	3050/6010(c)
Cadmium - Total	0.33	0.56	10/13/95	10/16/95	3050/6010(c)
Chromium - Total	0.99	29	10/13/95	10/16/95	3050/6010(c)
Copper - Total	0.99	38	10/13/95	10/16/95	3050/6010(c)
Lead - Total	3	100	10/13/95	10/16/95	3050/6010(c)
Mercury - Total	0.0676	ND	10/13/95	10/17/95	7471(c)
Nickel - Total	0.99	13	10/13/95	10/16/95	3050/6010(c)
Selenium - Total	7	ND	10/13/95	10/16/95	3050/6010(c)
Silver - Total	0.64	ND	10/13/95	10/16/95	3005/6010(c)
Thallium - Total	10	ND	10/13/95	10/16/95	3050/6010(c)
Zinc - Total	1.3	84	10/13/95	10/16/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-4, SS-1
Sample Type: Soil

CHES Lab #: 9510080-08M
Date Received: 10/05/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	1.9	ND	mg/kg	10/11/95	9010(c)
Total Solids	--	92.1	%	10/06/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-4, SS-6
Sample Type: Soil

CHES Lab #: 9510080-090
Date Received: 10/05/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	23	7,700	10/10/95	10/11/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-4, SS-6
Sample Type: Soil

CHES Lab #: 9510080-09M
Date Received: 10/05/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	4	5	10/13/95	10/16/95	3005/6010(c)
Arsenic - Total	8	ND	10/13/95	10/16/95	3050/6010(c)
Beryllium - Total	0.038	0.266	10/13/95	10/16/95	3050/6010(c)
Cadmium - Total	0.38	ND	10/13/95	10/16/95	3050/6010(c)
Chromium - Total	1.1	16	10/13/95	10/16/95	3050/6010(c)
Copper - Total	1.1	27	10/13/95	10/16/95	3050/6010(c)
Lead - Total	4	60	10/13/95	10/16/95	3050/6010(c)
Mercury - Total	0.0600	ND	10/13/95	10/17/95	7471(c)
Nickel - Total	1.1	11	10/13/95	10/16/95	3050/6010(c)
Selenium - Total	8	ND	10/13/95	10/16/95	3050/6010(c)
Silver - Total	0.81	ND	10/13/95	10/16/95	3005/6010(c)
Thallium - Total	10	ND	10/13/95	10/16/95	3050/6010(c)
Zinc - Total	1.5	36	10/13/95	10/16/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-4, SS-6
Sample Type: Soil

CHES Lab #: 9510080-09M
Date Received: 10/05/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	1.5	ND	mg/kg	10/11/95	9010(c)
Total Solids	--	87.5	%	10/06/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

QUALITY CONTROL

REPORT OF ANALYSIS

CHES LAB. NO. 9510080

The attached quality control data were generated during the analysis of these samples. All results have been generated in accordance with the procedures as stated in the Clean Harbors Environmental Services, Inc. Quality Assurance/Quality Control Manual and pertinent standard operating procedures, which are available for review. The attached has been submitted for informational purposes only.

CleanHarbors

Parameter	PQL*	Result	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	ND	10/10/95	10/11/95	**

Notes:

ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.
* = mg/kg
** = U.S. EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual; November 1990.
Hydrocarbon quantitative range:

C10 - C38

Hydrocarbon qualitative identification:

No significant hydrocarbon observed.

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 87 %	50 - 150%

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9510080

BLANK ANALYSIS

METALS

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	0.1	ND	10/13/95	10/16/95	3005/6010(c)
Arsenic - Total	0.2	ND	10/13/95	10/16/95	3050/6010(c)
Beryllium - Total	0.001	ND	10/13/95	10/16/95	3050/6010(c)
Cadmium - Total	0.01	ND	10/13/95	10/16/95	3050/6010(c)
Chromium - Total	0.03	ND	10/13/95	10/16/95	3050/6010(c)
Copper - Total	0.03	ND	10/13/95	10/16/95	3050/6010(c)
Lead - Total	0.1	ND	10/13/95	10/16/95	3050/6010(c)
Mercury - Total	0.0002	ND	10/13/95	10/17/95	7471(c)
Nickel - Total	0.03	ND	10/13/95	10/16/95	3050/6010(c)
Selenium - Total	0.2	ND	10/13/95	10/16/95	3050/6010(c)
Silver - Total	0.02	ND	10/13/95	10/16/95	3005/6010(c)
Thallium - Total	0.3	ND	10/13/95	10/16/95	3050/6010(c)
Zinc - Total	0.04	ND	10/13/95	10/16/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9510080

BLANK ANALYSIS

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	10/10/95	9010(c)
Cyanide, Total	0.02	ND	mg/l	10/11/95	9010(c)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight

CleanHarbors

Method References

(a) "Methods for Chemical Analysis of Water and Wastes," Publication EPA-600/4-79-020, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, 1979, revised March 1983.

(b) "Standard Methods for the Examination of Water and Wastewater." 18th ed., American Public Health Association, American Water Works Association, Water Pollution Control Federation, Washington, D.C., 1992.

(c) "Test Methods for Evaluating Solid Waste: Physical/Chemical methods," 3rd ed., U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, D.C., November 1986, updated July 1992 and September 1994.

(d) "The Determination of Polychlorinated Biphenyls in Transformer Fluid and Waste Oils," Publication EPA-600/4-81-045, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, September 1982.

(e) "Hazardous Waste Management System; Identification and Listing of Hazardous Waste; Toxicity Characteristic Revisions; Final Rule," Federal Register, Vol. 55, No. 126, Friday, June 29, 1990, and revision in Federal Register, Vol. 57, No. 227, Tuesday, November 24, 1992.

(f) "Guidelines Establishing Test Procedures for Analysis of Pollutants," Code of Federal Regulations, Part 136 Appendix A and Appendix B, July 1, 1993.

(g) "Methods for the Determination of Organic Compounds in Drinking Water," U.S. Environmental Protection Agency, Office of Research and Development, Washington, D.C., December 1988, revised July 1991.

(h) "The Determination of Inorganic Anions in Water by Ion Chromatography - Method 300.0," Publication EPA-600/4-84-017, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, March 1984.

(i) "Hach Water Analysis Handbook," Hach Chemical Company, Loveland, CO, 1992.

(j) "USEPA-CLP Statement of Work for Organic Analysis," Publication OLM01.0 (including revisions, U.S. Environmental Protection Agency, Contract Laboratory Program, August 1991.

(k) "Annual Book of Standards," Section 11: Water and Environmental Technology, Vols. 11.01-11.04, American Society for Testing Materials, Philadelphia, 1989 & 1991.

(l) "Annual Book of Standards," Section 5: Petroleum Products and Lubricants, Vols. 5.01, American Society for Testing Materials, Philadelphia, 1993.

(m) "Annual Book of Standards," Section 4: Construction, Vol. 4.08, American Society for Testing Materials, Philadelphia, 1993.

(n) "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods," 2nd ed., U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, D.C., July 1982, updated April 1984.

(o) "Annual Book of Standards," Section 15: Engine Coolants; Halogenated Organic Solvents, Vol. 15.05,American Society for Testing Materials, Philadelphia, 1995.

[REF-09/21/95]

1/5 10/9

CleanHarbors

Clean Harbors Analytical Services, Inc., 325 Wood Rd., Braintree, MA 02184 | CHAIN OF CUSTODY RECORD | Sample Custodian — (617) 849-1800 | Page of

Client: CHES Project Name: MURPHYS WASTE OIL SERVICE Work Order/P.O. #: EN-170 Date: 10/5/95

Report To: JAY MCCREERY Address: 12 MERCER RD, NATICK, MA Phone #: X6399

Date Samples Collected: 10/5/95 by: P. NICELWONGER Date Samples Received:

Airbill/Bill of Lading? Y N NOTE: Samples received unpreserved will be preserved upon arrival at CHAS. Samples were: Preserved Unpreserved

Sample I.D.	Sampling Information: Date	Time	Station Location	Sample Matrix	VOA 8240	TPH GC/FID	PAHs by HPLC	13 P.P. TOT. MET.	TOT. CYANIDE		SIEVE ANALYSIS		# of con.	CHAS Sample # PS 10/5 9510080
B-6	10/5		SS-5	SOIL	1	1	1	1	1				2	01A, M, O, Q
B-10			SS-6		1	1	1	1	1				2	02A, M, O, Q
MW-9			SS-3								1		1	Combine equal parts 03X
MW-9			SS-5								1		1	of each sample into 04X
MW-9			SS-6		1	1	1	1	1		1		2	sieve analysis. 05A, M, O, Q
Composite														06L

VOA Vial									
Glass Bottle									
Plastic Bottle									
Pres.									
Volume									

Relinquished by: [signature] Date: 10/5/95 Time: 5:00 PM

Received by: [signature] Date: 10-5-95 Time: 17:20

Relinquished by: [signature] Date: 10-5-95 Time: 1800

Received by: [signature] Date: 10/5/95 Time: 1800

Preservation Key: A — Acidified with _____
B — Filtered C — Sample chilled, D— NaOH,
E — NaThiosulfate, W — Sample Ambient, F — Other

REMARKS/COMMENTS: (Sample storage, nonstandard bottles, cautions, special instructions)

Standard laboratory turnaround time is 2 weeks from date of receipt. Accelerated turnaround may be assessed a surcharge.
Accelerated turnaround requested:
Confirmed by: Surcharge:

Location of samples: R4, B9R2, Quonset

Turnaround: 24 Hrs. 48 Hrs. 1 Week 2 Weeks Other:

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1/1 p/1

CleanHarbors

Clean Harbors Analytical Services, Inc., 325 Wood Rd., Braintree, MA 02184	CHAIN OF CUSTODY RECORD	Sample Custodian — (617) 849-1800	Page 2 of 2

Client: CHES Project Name: MURPHYS WASTE OIL SERVICE Work Order/P.O. #: EN-170 Date: 10/5/95

Report To: JAY McCREERY Address: 12 MERCER ROAD, NATICK, MA Phone #: X6399

Date Samples Collected: 10/4/95 by: P. NICEWONGER Date Samples Received:

Airbill/Bill of Lading? Y N NOTE: Samples received unpreserved will be preserved upon arrival at CHAS. Samples were: Preserved Unpreserved

Sample I.D.	Sampling Information: Date	Time	Station Location	Sample Matrix	Analysis: VOA 8240	TPH EC/FID	PAHs by HPLC	13 P.P. TOT. METL	TOT. CYANIDE				# of con.	CHAS Sample # PJ 1015 9510080
B-9	10/4		SS-5	SOIL	1	1	1	1	1				2	07A, M, Q, Q
B-4	↓		SS-1	↓	1	1	1	1	1				2	08A, M, Q, Q
B-4	↓		SS-6	↓	1	1	1	1	1				2	09A, M, Q, Q

Relinquished by: [signature] Date: 10/5/95 Time: 5:00 PM

Received by: [signature] Date: 10-5-95 Time: 1700

Relinquished by: [signature] Date: 10-5-95 Time: 1800

Received by: [signature] Date: 10/6/95 Time: 1500

VOA Vial								
Glass Bottle								
Plastic Bottle								
Pres.								
Volume								

Preservation Key: A — Acidified with _____
B — Filtered C — Sample chilled, D— NaOH,
E — NaThiosulfate, W — Sample Ambient, F — Other

REMARKS/COMMENTS: (Sample storage, nonstandard bottles, cautions, special instructions)

... be assessed a surcharge. Location of samples: R4, R9R2, Auxiliary

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Clean Harbors
ENVIRONMENTAL SERVICES, INC.
325 WOOD ROAD • BRAINTREE, MA 02184
(617) 849-1800

REPORT OF ANALYSIS

Clean Harbors Environmental Services, Inc.
12 Mercer Road
Natick, MA 01760

Project: MURPHY'S WASTE OIL SERVICE
P.O. #: EN170

Date Received: 10/05/95
CHES Lab #: 9510081

Attn: Mr. Jay McCreery

Enclosed are the results for the sample(s) delivered to our laboratory (DEP Laboratory ID# M-MA032) on the date indicated above.

The methods listed represent those methodologies which were used to develop the best analytical techniques. Analytical results and quality assurance protocols are based on these guidelines. These meet the requirements for the reporting of results under the RCRA, NPDES and Safe Drinking Water Act regulations.

Clean Harbors Environmental Services has an active program of quality assurance and quality control. The program closely follows the guidance provided in the EPA Contract Laboratory Program Statement of Work (organic and inorganic), the guidance provided in SW-846, and many other pertinent documents.

Should you have any questions concerning this work, please do not hesitate to contact me.

The information contained in this report is, to the best of my knowledge, accurate and complete.

Per/Date: Michael J. Murray 10/25/95

Michael J. Murray
Laboratory Manager

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

CERTIFICATE OF ANALYSIS

Client: Clean Harbors

Address: 325 Wood Road

Braintree, MA 02184

Attn: Mike Wedge

Project Number: 9510080

Site:

Laboratory Job Number: L9507825

Invoice Number: 78066

Date Received: 12-OCT-95

Date Reported: 19-OCT-95

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9507825-01	9510081-01	
L9507825-02	9510081-02	
L9507825-03	9510081-03	
L9507825-04	9510081-04	
L9507825-05	9510081-05	
L9507825-06	9510081-06	
L9507825-07	9510081-07	
L9507825-08	9510081-08	
L9507825-09	9510080-01	
L9507825-10	9510080-02	
L9507825-11	9510080-05	
L9507825-12	9510080-07	
L9507825-13	9510080-08	
L9507825-14	9510080-09	

Authorized by: James R. Roth

James R. Roth, PhD - Laboratory Manager

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507825-01
9510081-01
Sample Matrix: SOIL

Date Collected: 04-OCT-95
Date Received : 12-OCT-95
Date Reported : 19-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	87.	%	0.10	3	2540B		18-Oct	ST
Volatile Organics by GC/MS				1	8260	17-Oct	17-Oct	DB
Methylene chloride	ND	ug/kg	25.					
1,1-Dichloroethane	ND	ug/kg	7.5					
Chloroform	ND	ug/kg	7.5					
Carbon tetrachloride	ND	ug/kg	5.0					
1,2-Dichloropropane	ND	ug/kg	18.					
Dibromochloromethane	ND	ug/kg	5.0					
1,1,2-Trichloroethane	ND	ug/kg	7.5					
2-Chloroethylvinyl ether	ND	ug/kg	50.					
Tetrachloroethene	ND	ug/kg	7.5					
Chlorobenzene	ND	ug/kg	18.					
Trichlorofluoromethane	ND	ug/kg	25.					
1,2-Dichloroethane	ND	ug/kg	7.5					
1,1,1-Trichloroethane	ND	ug/kg	5.0					
Bromodichloromethane	ND	ug/kg	5.0					
trans-1,3-Dichloropropene	ND	ug/kg	7.5					
cis-1,3-Dichloropropene	ND	ug/kg	5.0					
Bromoform	ND	ug/kg	5.0					
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0					
Benzene	ND	ug/kg	5.0					
Toluene	ND	ug/kg	7.5					
Ethylbenzene	ND	ug/kg	5.0					
Chloromethane	ND	ug/kg	50.					
Bromomethane	ND	ug/kg	10.					
Vinyl chloride	ND	ug/kg	18.					
Chloroethane	ND	ug/kg	10.					
1,1-Dichloroethene	ND	ug/kg	7.5					
trans-1,2-Dichloroethene	ND	ug/kg	7.5					
Trichloroethene	ND	ug/kg	5.0					
1,2-Dichlorobenzene	ND	ug/kg	50.					
1,3-Dichlorobenzene	ND	ug/kg	50.					
1,4-Dichlorobenzene	ND	ug/kg	50.					
Methyl tert butyl ether	ND	ug/kg	50.					
Xylenes	ND	ug/kg	5.0					
cis-1,2-Dichloroethene	ND	ug/kg	5.0					
Dibromomethane	ND	ug/kg	50.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507825-01
9510081-01

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	17-Oct	17-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	50.					
Iodomethane	ND	ug/kg	50.					
1,2,3-Trichloropropane	ND	ug/kg	50.					
Styrene	ND	ug/kg	5.0					
Dichlorodifluoromethane	ND	ug/kg	50.					
Acetone	ND	ug/kg	50.					
Carbon Disulfide	ND	ug/kg	50.					
2-Butanone	ND	ug/kg	23.					
Vinyl Acetate	ND	ug/kg	50.					
4-Methyl-2-pentanone	ND	ug/kg	50.					
2-Hexanone	ND	ug/kg	50.					
Ethyl methacrylate	ND	ug/kg	50.					
Acrolein	ND	ug/kg	130					
Acrylonitrile	ND	ug/kg	50.					
Bromochloromethane	ND	ug/kg	25.					
2,2-Dichloropropane	ND	ug/kg	25.					
1,2-Dibromoethane	ND	ug/kg	25.					
1,3-Dichloropropane	ND	ug/kg	25.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	25.					
Bromobenzene	ND	ug/kg	25.					
n-Butylbenzene	ND	ug/kg	25.					
sec-Butylbenzene	ND	ug/kg	25.					
tert-Butylbenzene	ND	ug/kg	25.					
o-Chlorotoluene	ND	ug/kg	25.					
p-Chlorotoluene	ND	ug/kg	25.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	25.					
Hexachlorobutadiene	ND	ug/kg	25.					
Isopropylbenzene	ND	ug/kg	25.					
p-Isopropyltoluene	ND	ug/kg	25.					
Naphthalene	ND	ug/kg	25.					
n-Propylbenzene	ND	ug/kg	25.					
1,2,3-Trichlorobenzene	ND	ug/kg	25.					
1,2,4-Trichlorobenzene	ND	ug/kg	25.					
1,3,5-Trimethylbenzene	ND	ug/kg	25.					
1,2,4-Trimethylbenzene	ND	ug/kg	25.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	25.					
Ethyl ether	ND	ug/kg	130					
SURROGATE RECOVERY								
Toluene-d8	98.0	%						
4-Bromofluorobenzene	103.	%						
Dibromofluoromethane	95.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507825-02
9510081-02
Sample Matrix: SOIL

Date Collected: 04-OCT-95
Date Received : 12-OCT-95
Date Reported : 19-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	83.	%	0.10	3	2540B		18-Oct	ST
Volatile Organics by GC/MS				1	8260	18-Oct	18-Oct	DB
Methylene chloride	ND	ug/kg	25.					
1,1-Dichloroethane	ND	ug/kg	7.5					
Chloroform	ND	ug/kg	7.5					
Carbon tetrachloride	ND	ug/kg	5.0					
1,2-Dichloropropane	ND	ug/kg	18.					
Dibromochloromethane	ND	ug/kg	5.0					
1,1,2-Trichloroethane	ND	ug/kg	7.5					
2-Chloroethylvinyl ether	ND	ug/kg	50.					
Tetrachloroethene	ND	ug/kg	7.5					
Chlorobenzene	ND	ug/kg	18.					
Trichlorofluoromethane	ND	ug/kg	25.					
1,2-Dichloroethane	ND	ug/kg	7.5					
1,1,1-Trichloroethane	ND	ug/kg	5.0					
Bromodichloromethane	ND	ug/kg	5.0					
trans-1,3-Dichloropropene	ND	ug/kg	7.5					
cis-1,3-Dichloropropene	ND	ug/kg	5.0					
Bromoform	ND	ug/kg	5.0					
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0					
Benzene	ND	ug/kg	5.0					
Toluene	ND	ug/kg	7.5					
Ethylbenzene	ND	ug/kg	5.0					
Chloromethane	ND	ug/kg	50.					
Bromomethane	ND	ug/kg	10.					
Vinyl chloride	ND	ug/kg	18.					
Chloroethane	ND	ug/kg	10.					
1,1-Dichloroethene	ND	ug/kg	7.5					
trans-1,2-Dichloroethene	ND	ug/kg	7.5					
Trichloroethene	ND	ug/kg	5.0					
1,2-Dichlorobenzene	ND	ug/kg	50.					
1,3-Dichlorobenzene	ND	ug/kg	50.					
1,4-Dichlorobenzene	ND	ug/kg	50.					
Methyl tert butyl ether	ND	ug/kg	50.					
Xylenes	ND	ug/kg	5.0					
cis-1,2-Dichloroethene	ND	ug/kg	5.0					
Dibromomethane	ND	ug/kg	50.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507825-02
9510081-02

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	18-Oct	18-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	50.					
Iodomethane	ND	ug/kg	50.					
1,2,3-Trichloropropane	ND	ug/kg	50.					
Styrene	ND	ug/kg	5.0					
Dichlorodifluoromethane	ND	ug/kg	50.					
Acetone	ND	ug/kg	50.					
Carbon Disulfide	ND	ug/kg	50.					
2-Butanone	ND	ug/kg	23.					
Vinyl Acetate	ND	ug/kg	50.					
4-Methyl-2-pentanone	ND	ug/kg	50.					
2-Hexanone	ND	ug/kg	50.					
Ethyl methacrylate	ND	ug/kg	50.					
Acrolein	ND	ug/kg	130					
Acrylonitrile	ND	ug/kg	50.					
Bromochloromethane	ND	ug/kg	25.					
2,2-Dichloropropane	ND	ug/kg	25.					
1,2-Dibromoethane	ND	ug/kg	25.					
1,3-Dichloropropane	ND	ug/kg	25.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	25.					
Bromobenzene	ND	ug/kg	25.					
n-Butylbenzene	ND	ug/kg	25.					
sec-Butylbenzene	ND	ug/kg	25.					
tert-Butylbenzene	ND	ug/kg	25.					
o-Chlorotoluene	ND	ug/kg	25.					
p-Chlorotoluene	ND	ug/kg	25.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	25.					
Hexachlorobutadiene	ND	ug/kg	25.					
Isopropylbenzene	ND	ug/kg	25.					
p-Isopropyltoluene	ND	ug/kg	25.					
Naphthalene	ND	ug/kg	25.					
n-Propylbenzene	ND	ug/kg	25.					
1,2,3-Trichlorobenzene	ND	ug/kg	25.					
1,2,4-Trichlorobenzene	ND	ug/kg	25.					
1,3,5-Trimethylbenzene	ND	ug/kg	25.					
1,2,4-Trimethylbenzene	ND	ug/kg	25.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	25.					
Ethyl ether	ND	ug/kg	130					
SURROGATE RECOVERY								
Toluene-d8	96.0	%						
4-Bromofluorobenzene	126.	%						
Dibromofluoromethane	100.	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507825-03
9510081-03
Sample Matrix: SOIL

Date Collected: 04-OCT-95
Date Received : 12-OCT-95
Date Reported : 19-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	83.	%	0.10	3	2540B		18-Oct	ST
Volatile Organics by GC/MS				1	8260	18-Oct	18-Oct	DB
Methylene chloride	ND	ug/kg	25.					
1,1-Dichloroethane	ND	ug/kg	7.5					
Chloroform	ND	ug/kg	7.5					
Carbon tetrachloride	ND	ug/kg	5.0					
1,2-Dichloropropane	ND	ug/kg	18.					
Dibromochloromethane	ND	ug/kg	5.0					
1,1,2-Trichloroethane	ND	ug/kg	7.5					
2-Chloroethylvinyl ether	ND	ug/kg	50.					
Tetrachloroethene	ND	ug/kg	7.5					
Chlorobenzene	ND	ug/kg	18.					
Trichlorofluoromethane	ND	ug/kg	25.					
1,2-Dichloroethane	ND	ug/kg	7.5					
1,1,1-Trichloroethane	ND	ug/kg	5.0					
Bromodichloromethane	ND	ug/kg	5.0					
trans-1,3-Dichloropropene	ND	ug/kg	7.5					
cis-1,3-Dichloropropene	ND	ug/kg	5.0					
Bromoform	ND	ug/kg	5.0					
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0					
Benzene	ND	ug/kg	5.0					
Toluene	ND	ug/kg	7.5					
Ethylbenzene	ND	ug/kg	5.0					
Chloromethane	ND	ug/kg	50.					
Bromomethane	ND	ug/kg	10.					
Vinyl chloride	ND	ug/kg	18.					
Chloroethane	ND	ug/kg	10.					
1,1-Dichloroethene	ND	ug/kg	7.5					
trans-1,2-Dichloroethene	ND	ug/kg	7.5					
Trichloroethene	ND	ug/kg	5.0					
1,2-Dichlorobenzene	ND	ug/kg	50.					
1,3-Dichlorobenzene	ND	ug/kg	50.					
1,4-Dichlorobenzene	ND	ug/kg	50.					
Methyl tert butyl ether	ND	ug/kg	50.					
Xylenes	ND	ug/kg	5.0					
cis-1,2-Dichloroethene	ND	ug/kg	5.0					
Dibromomethane	ND	ug/kg	50.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507825-03
9510081-03

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	18-Oct	18-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	50.					
Iodomethane	ND	ug/kg	50.					
1,2,3-Trichloropropane	ND	ug/kg	50.					
Styrene	ND	ug/kg	5.0					
Dichlorodifluoromethane	ND	ug/kg	50.					
Acetone	ND	ug/kg	50.					
Carbon Disulfide	ND	ug/kg	50.					
2-Butanone	ND	ug/kg	23.					
Vinyl Acetate	ND	ug/kg	50.					
4-Methyl-2-pentanone	ND	ug/kg	50.					
2-Hexanone	ND	ug/kg	50.					
Ethyl methacrylate	ND	ug/kg	50.					
Acrolein	ND	ug/kg	130					
Acrylonitrile	ND	ug/kg	50.					
Bromochloromethane	ND	ug/kg	25.					
2,2-Dichloropropane	ND	ug/kg	25.					
1,2-Dibromoethane	ND	ug/kg	25.					
1,3-Dichloropropane	ND	ug/kg	25.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	25.					
Bromobenzene	ND	ug/kg	25.					
n-Butylbenzene	ND	ug/kg	25.					
sec-Butylbenzene	ND	ug/kg	25.					
tert-Butylbenzene	ND	ug/kg	25.					
o-Chlorotoluene	ND	ug/kg	25.					
p-Chlorotoluene	ND	ug/kg	25.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	25.					
Hexachlorobutadiene	ND	ug/kg	25.					
Isopropylbenzene	ND	ug/kg	25.					
p-Isopropyltoluene	ND	ug/kg	25.					
Naphthalene	ND	ug/kg	25.					
n-Propylbenzene	ND	ug/kg	25.					
1,2,3-Trichlorobenzene	ND	ug/kg	25.					
1,2,4-Trichlorobenzene	ND	ug/kg	25.					
1,3,5-Trimethylbenzene	ND	ug/kg	25.					
1,2,4-Trimethylbenzene	ND	ug/kg	25.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	25.					
Ethyl ether	ND	ug/kg	130					
SURROGATE RECOVERY								
Toluene-d8	99.0	%						
4-Bromofluorobenzene	119.	%						
Dibromofluoromethane	98.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507825-04
9510081-04
Sample Matrix: SOIL

Date Collected: 04-OCT-95
Date Received : 12-OCT-95
Date Reported : 19-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	94.	%	0.10	3	2540B		18-Oct	ST
Volatile Organics by GC/MS				1	8260	18-Oct	18-Oct	DB
Methylene chloride	ND	ug/kg	50.					
1,1-Dichloroethane	46.	ug/kg	15.					
Chloroform	ND	ug/kg	15.					
Carbon tetrachloride	ND	ug/kg	10.					
1,2-Dichloropropane	ND	ug/kg	35.					
Dibromochloromethane	ND	ug/kg	10.					
1,1,2-Trichloroethane	ND	ug/kg	15.					
2-Chloroethylvinyl ether	ND	ug/kg	100					
Tetrachloroethene	29.	ug/kg	15.					
Chlorobenzene	ND	ug/kg	35.					
Trichlorofluoromethane	ND	ug/kg	50.					
1,2-Dichloroethane	ND	ug/kg	15.					
1,1,1-Trichloroethane	32.	ug/kg	10.					
Bromodichloromethane	ND	ug/kg	10.					
trans-1,3-Dichloropropene	ND	ug/kg	15.					
cis-1,3-Dichloropropene	ND	ug/kg	10.					
Bromoform	ND	ug/kg	10.					
1,1,2,2-Tetrachloroethane	ND	ug/kg	10.					
Benzene	ND	ug/kg	10.					
Toluene	ND	ug/kg	15.					
Ethylbenzene	ND	ug/kg	10.					
Chloromethane	ND	ug/kg	100					
Bromomethane	ND	ug/kg	20.					
Vinyl chloride	ND	ug/kg	35.					
Chloroethane	ND	ug/kg	20.					
1,1-Dichloroethene	ND	ug/kg	15.					
trans-1,2-Dichloroethene	ND	ug/kg	15.					
Trichloroethene	86.	ug/kg	10.					
1,2-Dichlorobenzene	ND	ug/kg	100					
1,3-Dichlorobenzene	ND	ug/kg	100					
1,4-Dichlorobenzene	ND	ug/kg	100					
Methyl tert butyl ether	ND	ug/kg	100					
Xylenes	ND	ug/kg	10.					
cis-1,2-Dichloroethene	210	ug/kg	10.					
Dibromomethane	ND	ug/kg	100					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507825-04
9510081-04

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	18-Oct	18-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	100					
Iodomethane	ND	ug/kg	100					
1,2,3-Trichloropropane	ND	ug/kg	100					
Styrene	ND	ug/kg	10.					
Dichlorodifluoromethane	ND	ug/kg	100					
Acetone	ND	ug/kg	100					
Carbon Disulfide	ND	ug/kg	100					
2-Butanone	ND	ug/kg	45.					
Vinyl Acetate	ND	ug/kg	100					
4-Methyl-2-pentanone	ND	ug/kg	100					
2-Hexanone	ND	ug/kg	100					
Ethyl methacrylate	ND	ug/kg	100					
Acrolein	ND	ug/kg	250					
Acrylonitrile	ND	ug/kg	100					
Bromochloromethane	ND	ug/kg	50.					
2,2-Dichloropropane	ND	ug/kg	50.					
1,2-Dibromoethane	ND	ug/kg	50.					
1,3-Dichloropropane	ND	ug/kg	50.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	50.					
Bromobenzene	ND	ug/kg	50.					
n-Butylbenzene	ND	ug/kg	50.					
sec-Butylbenzene	ND	ug/kg	50.					
tert-Butylbenzene	ND	ug/kg	50.					
o-Chlorotoluene	ND	ug/kg	50.					
p-Chlorotoluene	ND	ug/kg	50.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	50.					
Hexachlorobutadiene	ND	ug/kg	50.					
Isopropylbenzene	ND	ug/kg	50.					
p-Isopropyltoluene	ND	ug/kg	50.					
Naphthalene	ND	ug/kg	50.					
n-Propylbenzene	ND	ug/kg	50.					
1,2,3-Trichlorobenzene	ND	ug/kg	50.					
1,2,4-Trichlorobenzene	ND	ug/kg	50.					
1,3,5-Trimethylbenzene	ND	ug/kg	50.					
1,2,4-Trimethylbenzene	ND	ug/kg	50.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	50.					
Ethyl ether	ND	ug/kg	250					
SURROGATE RECOVERY								
Toluene-d8	89.0	%						
4-Bromofluorobenzene	83.0	%						
Dibromofluoromethane	100.	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507825-05
9510081-05
Sample Matrix: SOIL

Date Collected: 04-OCT-95
Date Received : 12-OCT-95
Date Reported : 19-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	84.	%	0.10	3	2540B		18-Oct	ST
Volatile Organics by GC/MS				1	8260	18-Oct	18-Oct	DB
Methylene chloride	ND	ug/kg	50.					
1,1-Dichloroethane	ND	ug/kg	15.					
Chloroform	ND	ug/kg	15.					
Carbon tetrachloride	ND	ug/kg	10.					
1,2-Dichloropropane	ND	ug/kg	35.					
Dibromochloromethane	ND	ug/kg	10.					
1,1,2-Trichloroethane	ND	ug/kg	15.					
2-Chloroethylvinyl ether	ND	ug/kg	100					
etrachloroethene	ND	ug/kg	15.					
Chlorobenzene	ND	ug/kg	35.					
Trichlorofluoromethane	ND	ug/kg	50.					
1,2-Dichloroethane	ND	ug/kg	15.					
1,1,1-Trichloroethane	ND	ug/kg	10.					
Bromodichloromethane	ND	ug/kg	10.					
trans-1,3-Dichloropropene	ND	ug/kg	15.					
cis-1,3-Dichloropropene	ND	ug/kg	10.					
Bromoform	ND	ug/kg	10.					
1,1,2,2-Tetrachloroethane	ND	ug/kg	10.					
Benzene	ND	ug/kg	10.					
Toluene	ND	ug/kg	15.					
Ethylbenzene	ND	ug/kg	10.					
Chloromethane	ND	ug/kg	100					
Bromomethane	ND	ug/kg	20.					
Vinyl chloride	ND	ug/kg	35.					
Chloroethane	ND	ug/kg	20.					
1,1-Dichloroethene	ND	ug/kg	15.					
trans-1,2-Dichloroethene	ND	ug/kg	15.					
Trichloroethene	ND	ug/kg	10.					
1,2-Dichlorobenzene	ND	ug/kg	100					
1,3-Dichlorobenzene	ND	ug/kg	100					
1,4-Dichlorobenzene	ND	ug/kg	100					
Methyl tert butyl ether	ND	ug/kg	100					
Xylenes	ND	ug/kg	10.					
cis-1,2-Dichloroethene	ND	ug/kg	10.					
Dibromomethane	ND	ug/kg	100					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507825-05
9510081-05

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	18-Oct	18-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	100					
Iodomethane	ND	ug/kg	100					
1,2,3-Trichloropropane	ND	ug/kg	100					
Styrene	ND	ug/kg	10.					
Dichlorodifluoromethane	ND	ug/kg	100					
Acetone	ND	ug/kg	100					
Carbon Disulfide	ND	ug/kg	100					
2-Butanone	ND	ug/kg	45.					
Vinyl Acetate	ND	ug/kg	100					
4-Methyl-2-pentanone	ND	ug/kg	100					
2-Hexanone	ND	ug/kg	100					
Ethyl methacrylate	ND	ug/kg	100					
Acrolein	ND	ug/kg	250					
Acrylonitrile	ND	ug/kg	100					
Bromochloromethane	ND	ug/kg	50.					
2,2-Dichloropropane	ND	ug/kg	50.					
1,2-Dibromoethane	ND	ug/kg	50.					
1,3-Dichloropropane	ND	ug/kg	50.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	50.					
Bromobenzene	ND	ug/kg	50.					
n-Butylbenzene	ND	ug/kg	50.					
sec-Butylbenzene	ND	ug/kg	50.					
tert-Butylbenzene	ND	ug/kg	50.					
o-Chlorotoluene	ND	ug/kg	50.					
p-Chlorotoluene	ND	ug/kg	50.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	50.					
Hexachlorobutadiene	ND	ug/kg	50.					
Isopropylbenzene	ND	ug/kg	50.					
p-Isopropyltoluene	ND	ug/kg	50.					
Naphthalene	ND	ug/kg	50.					
n-Propylbenzene	ND	ug/kg	50.					
1,2,3-Trichlorobenzene	ND	ug/kg	50.					
1,2,4-Trichlorobenzene	ND	ug/kg	50.					
1,3,5-Trimethylbenzene	ND	ug/kg	50.					
1,2,4-Trimethylbenzene	ND	ug/kg	50.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	50.					
Ethyl ether	ND	ug/kg	250					
SURROGATE RECOVERY								
Toluene-d8	99.0	%						
4-Bromofluorobenzene	106.	%						
Dibromofluoromethane	99.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507825-06
9510081-06
Sample Matrix: SOIL

Date Collected: 04-OCT-95
Date Received : 12-OCT-95
Date Reported : 19-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	80.	%	0.10	3	2540B		18-Oct	ST
Volatile Organics by GC/MS				1	8260	18-Oct	18-Oct	DB
Methylene chloride	ND	ug/kg	25.					
1,1-Dichloroethane	ND	ug/kg	7.5					
Chloroform	ND	ug/kg	7.5					
Carbon tetrachloride	ND	ug/kg	5.0					
1,2-Dichloropropane	ND	ug/kg	18.					
Dibromochloromethane	ND	ug/kg	5.0					
1,1,2-Trichloroethane	ND	ug/kg	7.5					
?-Chloroethylvinyl ether	ND	ug/kg	50.					
etrachloroethene	ND	ug/kg	7.5					
Chlorobenzene	ND	ug/kg	18.					
Trichlorofluoromethane	ND	ug/kg	25.					
1,2-Dichloroethane	ND	ug/kg	7.5					
1,1,1-Trichloroethane	ND	ug/kg	5.0					
Bromodichloromethane	ND	ug/kg	5.0					
trans-1,3-Dichloropropene	ND	ug/kg	7.5					
cis-1,3-Dichloropropene	ND	ug/kg	5.0					
Bromoform	ND	ug/kg	5.0					
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0					
Benzene	ND	ug/kg	5.0					
Toluene	ND	ug/kg	7.5					
Ethylbenzene	ND	ug/kg	5.0					
Chloromethane	ND	ug/kg	50.					
Bromomethane	ND	ug/kg	10.					
Vinyl chloride	ND	ug/kg	18.					
Chloroethane	ND	ug/kg	10.					
1,1-Dichloroethene	ND	ug/kg	7.5					
trans-1,2-Dichloroethene	ND	ug/kg	7.5					
Trichloroethene	ND	ug/kg	5.0					
1,2-Dichlorobenzene	ND	ug/kg	50.					
1,3-Dichlorobenzene	ND	ug/kg	50.					
1,4-Dichlorobenzene	ND	ug/kg	50.					
Methyl tert butyl ether	ND	ug/kg	50.					
Xylenes	ND	ug/kg	5.0					
cis-1,2-Dichloroethene	ND	ug/kg	5.0					
Dibromomethane	ND	ug/kg	50.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507825-06
9510081-06

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	18-Oct	18-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	50.					
Iodomethane	ND	ug/kg	50.					
1,2,3-Trichloropropane	ND	ug/kg	50.					
Styrene	ND	ug/kg	5.0					
Dichlorodifluoromethane	ND	ug/kg	50.					
Acetone	ND	ug/kg	50.					
Carbon Disulfide	ND	ug/kg	50.					
2-Butanone	ND	ug/kg	23.					
Vinyl Acetate	ND	ug/kg	50.					
4-Methyl-2-pentanone	ND	ug/kg	50.					
2-Hexanone	ND	ug/kg	50.					
Ethyl methacrylate	ND	ug/kg	50.					
Acrolein	ND	ug/kg	130					
Acrylonitrile	ND	ug/kg	50.					
Bromochloromethane	ND	ug/kg	25.					
2,2-Dichloropropane	ND	ug/kg	25.					
1,2-Dibromoethane	ND	ug/kg	25.					
1,3-Dichloropropane	ND	ug/kg	25.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	25.					
Bromobenzene	ND	ug/kg	25.					
n-Butylbenzene	ND	ug/kg	25.					
sec-Butylbenzene	ND	ug/kg	25.					
tert-Butylbenzene	ND	ug/kg	25.					
o-Chlorotoluene	ND	ug/kg	25.					
p-Chlorotoluene	ND	ug/kg	25.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	25.					
Hexachlorobutadiene	ND	ug/kg	25.					
Isopropylbenzene	ND	ug/kg	25.					
p-Isopropyltoluene	ND	ug/kg	25.					
Naphthalene	ND	ug/kg	25.					
n-Propylbenzene	ND	ug/kg	25.					
1,2,3-Trichlorobenzene	ND	ug/kg	25.					
1,2,4-Trichlorobenzene	ND	ug/kg	25.					
1,3,5-Trimethylbenzene	ND	ug/kg	25.					
1,2,4-Trimethylbenzene	ND	ug/kg	25.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	25.					
Ethyl ether	ND	ug/kg	130					
SURROGATE RECOVERY								
Toluene-d8	81.0	%						
4-Bromofluorobenzene	82.0	%						
Dibromofluoromethane	82.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507825-07
9510081-07
Sample Matrix: SOIL

Date Collected: 04-OCT-95
Date Received : 12-OCT-95
Date Reported : 19-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	92.	%	0.10	3	2540B		18-Oct	ST
Volatile Organics by GC/MS				1	8260	18-Oct	18-Oct	DB
Methylene chloride	ND	ug/kg	25.					
1,1-Dichloroethane	ND	ug/kg	7.5					
Chloroform	ND	ug/kg	7.5					
Carbon tetrachloride	ND	ug/kg	5.0					
1,2-Dichloropropane	ND	ug/kg	18.					
Dibromochloromethane	ND	ug/kg	5.0					
1,1,2-Trichloroethane	ND	ug/kg	7.5					
2-Chloroethylvinyl ether	ND	ug/kg	50.					
Tetrachloroethene	ND	ug/kg	7.5					
Chlorobenzene	ND	ug/kg	18.					
Trichlorofluoromethane	ND	ug/kg	25.					
1,2-Dichloroethane	ND	ug/kg	7.5					
1,1,1-Trichloroethane	ND	ug/kg	5.0					
Bromodichloromethane	ND	ug/kg	5.0					
trans-1,3-Dichloropropene	ND	ug/kg	7.5					
cis-1,3-Dichloropropene	ND	ug/kg	5.0					
Bromoform	ND	ug/kg	5.0					
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0					
Benzene	ND	ug/kg	5.0					
Toluene	ND	ug/kg	7.5					
Ethylbenzene	ND	ug/kg	5.0					
Chloromethane	ND	ug/kg	50.					
Bromomethane	ND	ug/kg	10.					
Vinyl chloride	ND	ug/kg	18.					
Chloroethane	ND	ug/kg	10.					
1,1-Dichloroethene	ND	ug/kg	7.5					
trans-1,2-Dichloroethene	ND	ug/kg	7.5					
Trichloroethene	ND	ug/kg	5.0					
1,2-Dichlorobenzene	ND	ug/kg	50.					
1,3-Dichlorobenzene	ND	ug/kg	50.					
1,4-Dichlorobenzene	ND	ug/kg	50.					
Methyl tert butyl ether	ND	ug/kg	50.					
Xylenes	ND	ug/kg	5.0					
cis-1,2-Dichloroethene	ND	ug/kg	5.0					
Dibromomethane	ND	ug/kg	50.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507825-07
9510081-07

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	18-Oct	18-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	50.					
Iodomethane	ND	ug/kg	50.					
1,2,3-Trichloropropane	ND	ug/kg	50.					
Styrene	ND	ug/kg	5.0					
Dichlorodifluoromethane	ND	ug/kg	50.					
Acetone	ND	ug/kg	50.					
Carbon Disulfide	ND	ug/kg	50.					
2-Butanone	ND	ug/kg	23.					
Vinyl Acetate	ND	ug/kg	50.					
4-Methyl-2-pentanone	ND	ug/kg	50.					
2-Hexanone	ND	ug/kg	50.					
Ethyl methacrylate	ND	ug/kg	50.					
Acrolein	ND	ug/kg	130					
Acrylonitrile	ND	ug/kg	50.					
Bromochloromethane	ND	ug/kg	25.					
2,2-Dichloropropane	ND	ug/kg	25.					
1,2-Dibromoethane	ND	ug/kg	25.					
1,3-Dichloropropane	ND	ug/kg	25.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	25.					
Bromobenzene	ND	ug/kg	25.					
n-Butylbenzene	ND	ug/kg	25.					
sec-Butylbenzene	ND	ug/kg	25.					
tert-Butylbenzene	ND	ug/kg	25.					
o-Chlorotoluene	ND	ug/kg	25.					
p-Chlorotoluene	ND	ug/kg	25.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	25.					
Hexachlorobutadiene	ND	ug/kg	25.					
Isopropylbenzene	ND	ug/kg	25.					
p-Isopropyltoluene	ND	ug/kg	25.					
Naphthalene	ND	ug/kg	25.					
n-Propylbenzene	ND	ug/kg	25.					
1,2,3-Trichlorobenzene	ND	ug/kg	25.					
1,2,4-Trichlorobenzene	ND	ug/kg	25.					
1,3,5-Trimethylbenzene	ND	ug/kg	25.					
1,2,4-Trimethylbenzene	ND	ug/kg	25.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	25.					
Ethyl ether	ND	ug/kg	130					

SURROGATE RECOVERY

Toluene-d8	83.0	%
4-Bromofluorobenzene	76.0	%
Dibromofluoromethane	98.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9507825-08
9510081-08
Sample Matrix: SOIL

Date Collected: 04-OCT-95
Date Received : 12-OCT-95
Date Reported : 19-OCT-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	67.	%	0.10	3	2540B		18-Oct	ST
Volatile Organics by GC/MS				1	8260	18-Oct	18-Oct	DB
Methylene chloride	ND	ug/kg	37.					
1,1-Dichloroethane	ND	ug/kg	11.					
Chloroform	ND	ug/kg	11.					
Carbon tetrachloride	ND	ug/kg	7.5					
1,2-Dichloropropane	ND	ug/kg	26.					
Dibromochloromethane	ND	ug/kg	7.5					
1,1,2-Trichloroethane	ND	ug/kg	11.					
2-Chloroethylvinyl ether	ND	ug/kg	75.					
Tetrachloroethene	ND	ug/kg	11.					
Chlorobenzene	ND	ug/kg	26.					
Trichlorofluoromethane	ND	ug/kg	37.					
1,2-Dichloroethane	ND	ug/kg	11.					
1,1,1-Trichloroethane	ND	ug/kg	7.5					
Bromodichloromethane	ND	ug/kg	7.5					
trans-1,3-Dichloropropene	ND	ug/kg	11.					
cis-1,3-Dichloropropene	ND	ug/kg	7.5					
Bromoform	ND	ug/kg	7.5					
1,1,2,2-Tetrachloroethane	ND	ug/kg	7.5					
Benzene	ND	ug/kg	7.5					
Toluene	ND	ug/kg	11.					
Ethylbenzene	ND	ug/kg	7.5					
Chloromethane	ND	ug/kg	75.					
Bromomethane	ND	ug/kg	15.					
Vinyl chloride	ND	ug/kg	26.					
Chloroethane	ND	ug/kg	15.					
1,1-Dichloroethene	ND	ug/kg	11.					
trans-1,2-Dichloroethene	ND	ug/kg	11.					
Trichloroethene	ND	ug/kg	7.5					
1,2-Dichlorobenzene	ND	ug/kg	75.					
1,3-Dichlorobenzene	ND	ug/kg	75.					
1,4-Dichlorobenzene	ND	ug/kg	75.					
Methyl tert butyl ether	ND	ug/kg	75.					
Xylenes	ND	ug/kg	7.5					
cis-1,2-Dichloroethene	ND	ug/kg	7.5					
Dibromomethane	ND	ug/kg	75.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9507825-08
9510081-08

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	18-Oct	18-Oct	DB
1,4-Dichlorobutane	ND	ug/kg	75.					
Iodomethane	ND	ug/kg	75.					
1,2,3-Trichloropropane	ND	ug/kg	75.					
Styrene	ND	ug/kg	7.5					
Dichlorodifluoromethane	ND	ug/kg	75.					
Acetone	ND	ug/kg	75.					
Carbon Disulfide	ND	ug/kg	75.					
2-Butanone	ND	ug/kg	34.					
Vinyl Acetate	ND	ug/kg	75.					
4-Methyl-2-pentanone	ND	ug/kg	75.					
2-Hexanone	ND	ug/kg	75.					
Ethyl methacrylate	ND	ug/kg	75.					
Acrolein	ND	ug/kg	190					
Acrylonitrile	ND	ug/kg	75.					
Bromochloromethane	ND	ug/kg	37.					
2,2-Dichloropropane	ND	ug/kg	37.					
1,2-Dibromoethane	ND	ug/kg	37.					
1,3-Dichloropropane	ND	ug/kg	37.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	37.					
Bromobenzene	ND	ug/kg	37.					
n-Butylbenzene	ND	ug/kg	37.					
sec-Butylbenzene	ND	ug/kg	37.					
tert-Butylbenzene	ND	ug/kg	37.					
o-Chlorotoluene	ND	ug/kg	37.					
p-Chlorotoluene	ND	ug/kg	37.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	37.					
Hexachlorobutadiene	ND	ug/kg	37.					
Isopropylbenzene	ND	ug/kg	37.					
p-Isopropyltoluene	ND	ug/kg	37.					
Naphthalene	ND	ug/kg	37.					
n-Propylbenzene	ND	ug/kg	37.					
1,2,3-Trichlorobenzene	ND	ug/kg	37.					
1,2,4-Trichlorobenzene	ND	ug/kg	37.					
1,3,5-Trimethylbenzene	ND	ug/kg	37.					
1,2,4-Trimethylbenzene	ND	ug/kg	37.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	37.					
Ethyl ether	ND	ug/kg	190					
SURROGATE RECOVERY								
Toluene-d8	80.0	%						
4-Bromofluorobenzene	85.0	%						
Dibromofluoromethane	83.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

APP D

CleanHarbors
ENVIRONMENTAL SERVICES, INC.
325 WOOD ROAD • BRAINTREE, MA 02184
(617) 849-1800

REPORT OF ANALYSIS

Clean Harbors Environmental Services, Inc.
12 Mercer Road
Natick, MA 01760

Project: MURPHY'S WASTE OIL SERVICE
P.O. #: EN170

Date Received: 10/03/95
CHES Lab #: 9510031

Attn: Mr. Jay McCreery

Enclosed are the results for the sample(s) delivered to our laboratory (DEP Laboratory ID# M-MA032) on the date indicated above.

The methods listed represent those methodologies which were used to develop the best analytical techniques. Analytical results and quality assurance protocols are based on these guidelines. These meet the requirements for the reporting of results under the RCRA, NPDES and Safe Drinking Water Act regulations.

Clean Harbors Environmental Services has an active program of quality assurance and quality control. The program closely follows the guidance provided in the EPA Contract Laboratory Program Statement of Work (organic and inorganic), the guidance provided in SW-846, and many other pertinent documents.

Should you have any questions concerning this work, please do not hesitate to contact me.

The information contained in this report is, to the best of my knowledge, accurate and complete.

Per/Date: Michael J. Murray 10/19/95

Michael J. Murray
Laboratory Manager

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-1, SS-3
Sample Type: Soil

CHES Lab #: 9510031-010
Date Received: 10/03/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	23	10/06/95	10/10/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil with additional single component peaks.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 98%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-1, SS-3
Sample Type: Soil

CHES Lab #: 9510031-01M
Date Received: 10/03/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	4	ND	10/06/95	10/09/95	3005/6010(c)
Arsenic - Total	8	ND	10/06/95	10/10/95	3050/6010(c)
Beryllium - Total	0.038	ND	10/06/95	10/10/95	3050/6010(c)
Cadmium - Total	0.38	ND	10/06/95	10/10/95	3050/6010(c)
Chromium - Total	1.1	11	10/06/95	10/10/95	3050/6010(c)
Copper - Total	1.1	5.8	10/06/95	10/10/95	3050/6010(c)
Lead - Total	4	9	10/06/95	10/10/95	3050/6010(c)
Mercury - Total	0.0708	ND	10/06/95	10/10/95	7471(c)
Nickel - Total	1.1	ND	10/06/95	10/10/95	3050/6010(c)
Selenium - Total	8	ND	10/06/95	10/10/95	3050/6010(c)
Silver - Total	0.86	ND	10/06/95	10/09/95	3005/6010(c)
Thallium - Total	10	ND	10/06/95	10/10/95	3050/6010(c)
Zinc - Total	1.5	15	10/06/95	10/10/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-1, SS-3
Sample Type: Soil

CHES Lab #: 9510031-01M
Date Received: 10/03/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	2.4	ND	mg/kg	10/05/95	9010(c)
Total Solids	--	78.3	%	10/05/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-1, SS-5
Sample Type: Soil

CHES Lab #: 9510031-020
Date Received: 10/03/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	16	10/06/95	10/10/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil with additional single component peaks.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 86%	50-150%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-1, SS-5
Sample Type: Soil

CHES Lab #: 9510031-02M
Date Received: 10/03/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	4	ND	10/06/95	10/09/95	3005/6010(c)
Arsenic - Total	7	ND	10/06/95	10/10/95	3050/6010(c)
Beryllium - Total	0.036	ND	10/06/95	10/10/95	3050/6010(c)
Cadmium - Total	0.36	ND	10/06/95	10/10/95	3050/6010(c)
Chromium - Total	1.1	8.0	10/06/95	10/10/95	3050/6010(c)
Copper - Total	1.1	6.8	10/06/95	10/10/95	3050/6010(c)
Lead - Total	4	6	10/06/95	10/10/95	3050/6010(c)
Mercury - Total	0.0620	ND	10/06/95	10/10/95	7471(c)
Nickel - Total	1.1	ND	10/06/95	10/10/95	3050/6010(c)
Selenium - Total	7	ND	10/06/95	10/10/95	3050/6010(c)
Silver - Total	0.74	ND	10/06/95	10/09/95	3005/6010(c)
Thallium - Total	10	ND	10/06/95	10/10/95	3050/6010(c)
Zinc - Total	1.5	17	10/06/95	10/10/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-1, SS-5
Sample Type: Soil

CHES Lab #: 9510031-02M
Date Received: 10/03/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	2.0	ND	mg/kg	10/05/95	9010(c)
Total Solids	--	81.6	%	10/05/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-14, SS-2
Sample Type: Soil

CHES Lab #: 9510031-030
Date Received: 10/03/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	6,400	10/06/95	10/12/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbon mixture observed with an appearance characteristic of lubricating oil and lightweight fuel oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-14, SS-2
Sample Type: Soil

CHES Lab #: 9510031-03M
Date Received: 10/03/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	4	ND	10/06/95	10/09/95	3005/6010(c)
Arsenic - Total	7	ND	10/06/95	10/10/95	3050/6010(c)
Beryllium - Total	0.035	ND	10/06/95	10/10/95	3050/6010(c)
Cadmium - Total	0.35	ND	10/06/95	10/10/95	3050/6010(c)
Chromium - Total	1.1	7.8	10/06/95	10/10/95	3050/6010(c)
Copper - Total	1.1	20	10/06/95	10/10/95	3050/6010(c)
Lead - Total	4	170	10/06/95	10/10/95	3050/6010(c)
Mercury - Total	0.0725	0.1521	10/06/95	10/10/95	7471(c)
Nickel - Total	1.1	2.5	10/06/95	10/10/95	3050/6010(c)
Selenium - Total	7	ND	10/06/95	10/10/95	3050/6010(c)
Silver - Total	0.81	ND	10/06/95	10/09/95	3005/6010(c)
Thallium - Total	10	ND	10/06/95	10/10/95	3050/6010(c)
Zinc - Total	1.4	48	10/06/95	10/10/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-14, SS-2
Sample Type: Soil

CHES Lab #: 9510031-03M
Date Received: 10/03/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	1.4	ND	mg/kg	10/05/95	9010(c)
Total Solids	--	88.2	%	10/05/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-14, SS-5
Sample Type: Soil

CHES Lab #: 9510031-040
Date Received: 10/03/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	3,000	10/06/95	10/12/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbon mixture observed with an appearance characteristic of lubricating oil and lightweight fuel oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. 1986.

3. Standard Methods for Examination of Water and Waste Water. APHA-AWWA-WPCF. 17th Edition. 1989.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.

METHOD Method number by which analysis was performed.

TD Initials of the analyst.

Quanterra Environmental Services

Quanterra Incorporated
450 William Pitt Way
Pittsburgh, Pennsylvania 15238

412 826-5477 Telephone
412 826-5571 Fax

ANALYTICAL REPORT

PROJECT NO. CLEAN HARBOR

CLEAN HARBOR

MICHAEL J. WEDGE

CLEAN HARBORS ANALYTICAL

QUANTERRA INCORPORATED

Adrinnia S Washington

Adrinnia Washington
Project Manager

October 23, 1995

Quanterra
Environmental Services

NARRATIVE

The following report contains the analytical results for samples submitted to Quanterra Incorporated. The samples were received into the laboratory in accordance with documented sample acceptance procedures.

Quanterra utilizes USEPA approved methods and instrumentation in all analytical work. The methods used for the analyses presented in this study can be found on the following pages.

A Quality Control Section, containing a summary of QA/QC data for these analyses, is included at the end of the report.

The following codes are utilized in various analyses of this report:

ND	(None Detected)
DIL	(Diluted Out)
MI	(Matrix Interference)
NEG	(Negative)
J	(Detected, but below quantitation limit; estimated value)
B	(Compounds detected in method blank associated with this sample)
W	(Post digestion spike recovery fell between 40 - 85 %)
S	(Sample result determined by the Method of Standard Additions)
+	(Sample result determined by the Method of Standard Additions and the correlation coefficient was less than 0.995)

Quanterra
Environmental Services

ANALYTICAL METHODS SUMMARY

Parameters	Methods
Polynuclear Aromatic Hydrocarbons	SW846 8310
Hydrocarbons	
Solids, Total (TS)	MCAWW 160.3 MODIFIED

References:

MCAWW Methods for Chemical Analysis of Water and Wastes, EMSL: Cincinnati, OH: March 1983 and subsequent revisions

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, September, 1986 and subsequent revisions

Quanterra
Environmental Services

SAMPLE SUMMARY

The analytical results of the samples listed below are presented on the following pages.

WO #	LABORATORY ID	SAMPLE IDENTIFICATION	DATE/TIME SAMPLED
A5P73	C5J090002-001	9510081-01Q	10/04/94
A5P74	C5J090002-002	9510081-02Q	10/04/94
A5P75	C5J090002-003	9510081-03Q	10/04/94
A5P76	C5J090002-004	9510081-04Q	10/04/94
A5P77	C5J090002-005	9510081-06Q	10/04/94
A5P78	C5J090002-006	9510081-07Q	10/04/94
A5P79	C5J090002-007	9510081-08Q	10/04/94
A5PC7	C5J090002-008	9510081-05Q	10/04/95

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

9510081-01Q

WO #: A5P73101
LAB #: C5J090002-001
MATRIX: SOLID
DILUTION FACTOR: 1.00

DATE SAMPLED: 10/04/94
TIME SAMPLED:
DATE RECEIVED: 10/09/95

REQUESTED PARAMETERS

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	40	SW846 8310	10/11-10/18/95	5284020
Acenaphthylene	ND	40	SW846 8310	10/11-10/18/95	5284020
Acenaphthene	ND	40	SW846 8310	10/11-10/18/95	5284020
Fluorene	ND	8.2	SW846 8310	10/11-10/18/95	5284020
Phenanthrene	ND	21	SW846 8310	10/11-10/18/95	5284020
Anthracene	ND	21	SW846 8310	10/11-10/18/95	5284020
Fluoranthene	**28**	**8.2**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Pyrene	**22**	**8.2**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Benzo(a)anthracene	**11**	**0.82**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Chrysene	**12**	**6.1**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Benzo(b)fluoranthene	**9.4**	**0.82**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Benzo(k)fluoranthene	**4.8**	**0.82**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Benzo(a)pyrene	**8.7**	**0.82**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Indeno(1,2,3-cd)pyrene	**2.9**	**2.1**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Dibenzo(a,h)anthracene	ND	1.2	SW846 8310	10/11-10/18/95	5284020
Benzo(g,h,i)perylene	**6.2**	**2.1**	**SW846 8310**	**10/11-10/18/95**	**5284020**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	93	(36 - 144)
2-Fluorobiphenyl	71	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510081-01Q

WO #: A5P73
LAB #: C5J090002-001
MATRIX: SOLID

DATE SAMPLED: 10/04/94
TIME SAMPLED:
DATE RECEIVED: 10/09/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**81.8**		**%**	**MCAWW 160.3 M**	**10/10/95**	**5283038**

NOTE: DRY WEIGHT

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

9510081-02Q

WO #: A5P74101
LAB #: C5J090002-002
MATRIX: SOLID
DILUTION FACTOR: 1.00

DATE SAMPLED: 10/04/94
TIME SAMPLED:
DATE RECEIVED: 10/09/95

- - - - - - - - - - - - - - - - - - **REQUESTED PARAMETERS** - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	39	SW846 8310	10/11-10/18/95	5284020
Acenaphthylene	ND	39	SW846 8310	10/11-10/18/95	5284020
Acenaphthene	ND	39	SW846 8310	10/11-10/18/95	5284020
Fluorene	ND	8.0	SW846 8310	10/11-10/18/95	5284020
Phenanthrene	ND	20	SW846 8310	10/11-10/18/95	5284020
Anthracene	ND	20	SW846 8310	10/11-10/18/95	5284020
Fluoranthene	ND	8.0	SW846 8310	10/11-10/18/95	5284020
Pyrene	ND	8.0	SW846 8310	10/11-10/18/95	5284020
Benzo(a)anthracene	**3.3**	**0.80**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Chrysene	ND	5.9	SW846 8310	10/11-10/18/95	5284020
Benzo(b)fluoranthene	**3.4**	**0.80**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Benzo(k)fluoranthene	**1.8**	**0.80**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Benzo(a)pyrene	**3.0**	**0.80**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Indeno(1,2,3-cd)pyrene	ND	2.0	SW846 8310	10/11-10/18/95	5284020
Dibenzo(a,h)anthracene	ND	1.2	SW846 8310	10/11-10/18/95	5284020
Benzo(g,h,i)perylene	**3.3**	**2.0**	**SW846 8310**	**10/11-10/18/95**	**5284020**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	104	(36 - 144)
2-Fluorobiphenyl	77	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510081-02Q

WO #: A5P74
LAB #: C5J090002-002
MATRIX: SOLID

DATE SAMPLED: 10/04/94
TIME SAMPLED:
DATE RECEIVED: 10/09/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**84.2**		**%**	**MCAWW 160.3 M**	**10/10/95**	**5283038**

NOTE: DRY WEIGHT

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

9510081-03Q

WO #: A5P75101
LAB #: C5J090002-003
MATRIX: SOLID
DILUTION FACTOR: 1.00

DATE SAMPLED: 10/04/94
TIME SAMPLED:
DATE RECEIVED: 10/09/95

REQUESTED PARAMETERS

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	39	SW846 8310	10/11-10/18/95	5284020
Acenaphthylene	ND	39	SW846 8310	10/11-10/18/95	5284020
Acenaphthene	ND	39	SW846 8310	10/11-10/18/95	5284020
Fluorene	ND	7.9	SW846 8310	10/11-10/18/95	5284020
Phenanthrene	ND	20	SW846 8310	10/11-10/18/95	5284020
Anthracene	ND	20	SW846 8310	10/11-10/18/95	5284020
Fluoranthene	ND	7.9	SW846 8310	10/11-10/18/95	5284020
Pyrene	ND	7.9	SW846 8310	10/11-10/18/95	5284020
Benzo(a)anthracene	**0.83**	**0.79**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Chrysene	ND	5.9	SW846 8310	10/11-10/18/95	5284020
Benzo(b)fluoranthene	**2.7**	**0.79**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Benzo(k)fluoranthene	**1.3**	**0.79**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Benzo(a)pyrene	**3.6**	**0.79**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Indeno(1,2,3-cd)pyrene	**2.8**	**2.0**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Dibenzo(a,h)anthracene	ND	1.2	SW846 8310	10/11-10/18/95	5284020
Benzo(g,h,i)perylene	**5.8**	**2.0**	**SW846 8310**	**10/11-10/18/95**	**5284020**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	124	(36 - 144)
2-Fluorobiphenyl	97	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510081-03Q

WO #: A5P75
LAB #: C5J090002-003
MATRIX: SOLID

DATE SAMPLED: 10/04/94
TIME SAMPLED:
DATE RECEIVED: 10/09/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**84.4**		**%**	**MCAWW 160.3 M**	**10/10/95**	**5283038**

NOTE: DRY WEIGHT

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

9510081-04Q

WO #: A5P76101
LAB #: C5J090002-004
MATRIX: SOLID
DILUTION FACTOR: 40.00

DATE SAMPLED: 10/04/94
TIME SAMPLED:
DATE RECEIVED: 10/09/95

- - - - - - - - - - - - - - - - - - REQUESTED PARAMETERS - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	1,400	SW846 8310	10/11-10/23/95	5284020
Acenaphthylene	ND	1,400	SW846 8310	10/11-10/23/95	5284020
Acenaphthene	ND	1,400	SW846 8310	10/11-10/23/95	5284020
Fluorene	ND	290	SW846 8310	10/11-10/23/95	5284020
Phenanthrene	**2,200**	**730**	**SW846 8310**	**10/11-10/23/95**	**5284020**
Anthracene	ND	730	SW846 8310	10/11-10/23/95	5284020
Fluoranthene	**3,600**	**290**	**SW846 8310**	**10/11-10/23/95**	**5284020**
Pyrene	**4,300**	**290**	**SW846 8310**	**10/11-10/23/95**	**5284020**
Benzo(a)anthracene	**1,000**	**29**	**SW846 8310**	**10/11-10/23/95**	**5284020**
Chrysene	**1,900**	**220**	**SW846 8310**	**10/11-10/23/95**	**5284020**
Benzo(b)fluoranthene	**1,800**	**29**	**SW846 8310**	**10/11-10/23/95**	**5284020**
Benzo(k)fluoranthene	**820**	**29**	**SW846 8310**	**10/11-10/23/95**	**5284020**
Benzo(a)pyrene	**1,600**	**29**	**SW846 8310**	**10/11-10/23/95**	**5284020**
Indeno(1,2,3-cd)pyrene	**510**	**73**	**SW846 8310**	**10/11-10/23/95**	**5284020**
Dibenzo(a,h)anthracene	**110**	**43**	**SW846 8310**	**10/11-10/23/95**	**5284020**
Benzo(g,h,i)perylene	**1,400**	**73**	**SW846 8310**	**10/11-10/23/95**	**5284020**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	DIL	(36 - 144)
2-Fluorobiphenyl	DIL	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510081-04Q

WO #: A5P76
LAB #: C5J090002-004
MATRIX: SOLID

DATE SAMPLED: 10/04/94
TIME SAMPLED:
DATE RECEIVED: 10/09/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**92.7**		**%**	**MCAWW 160.3 M**	**10/10/95**	**5283038**

NOTE: DRY WEIGHT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510081-05Q

WO #: A5PC7101
LAB #: C5J090002-008
MATRIX: SOLID
DILUTION FACTOR: 4.00

DATE SAMPLED: 10/04/95
TIME SAMPLED:
DATE RECEIVED: 10/10/95

- **REQUESTED PARAMETERS** -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	160	SW846 8310	10/11-10/19/95	5284020
Acenaphthylene	ND	160	SW846 8310	10/11-10/19/95	5284020
Acenaphthene	ND	160	SW846 8310	10/11-10/19/95	5284020
Fluorene	**65**	**33**	**SW846 8310**	**10/11-10/19/95**	**5284020**
Phenanthrene	**320**	**84**	**SW846 8310**	**10/11-10/19/95**	**5284020**
Anthracene	**88**	**84**	**SW846 8310**	**10/11-10/19/95**	**5284020**
Fluoranthene	**200**	**33**	**SW846 8310**	**10/11-10/19/95**	**5284020**
Pyrene	**190**	**33**	**SW846 8310**	**10/11-10/19/95**	**5284020**
Benzo(a)anthracene	**74**	**3.3**	**SW846 8310**	**10/11-10/19/95**	**5284020**
Chrysene	**250**	**25**	**SW846 8310**	**10/11-10/19/95**	**5284020**
Benzo(b)fluoranthene	**75**	**3.3**	**SW846 8310**	**10/11-10/19/95**	**5284020**
Benzo(k)fluoranthene	**33**	**3.3**	**SW846 8310**	**10/11-10/19/95**	**5284020**
Benzo(a)pyrene	**93**	**3.3**	**SW846 8310**	**10/11-10/19/95**	**5284020**
Indeno(1,2,3-cd)pyrene	**MI (88)**	**8.4**	**SW846 8310**	**10/11-10/19/95**	**5284020**
Dibenzo(a,h)anthracene	**12**	**4.9**	**SW846 8310**	**10/11-10/19/95**	**5284020**
Benzo(g,h,i)perylene	**48**	**8.4**	**SW846 8310**	**10/11-10/19/95**	**5284020**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	MI*(329)	(36 - 144)
2-Fluorobiphenyl	116	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT
*** SURROGATES OUT OF CONTROL**

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510081-05Q

WO #: A5PC7
LAB #: C5J090002-008
MATRIX: SOLID

DATE SAMPLED: 10/04/95
TIME SAMPLED:
DATE RECEIVED: 10/10/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**81.0**		**%**	**MCAWW 160.3 M**	**10/11/95**	**5284022**

NOTE: DRY WEIGHT

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

9510081-06Q

WO #: A5P77101
LAB #: C5J090002-005
MATRIX: SOLID
DILUTION FACTOR: 1.00

DATE SAMPLED: 10/04/94
TIME SAMPLED:
DATE RECEIVED: 10/09/95

- - - - - - - - - - - - - - - - - - REQUESTED PARAMETERS - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	40	SW846 8310	10/11-10/18/95	5284020
Acenaphthylene	ND	40	SW846 8310	10/11-10/18/95	5284020
Acenaphthene	ND	40	SW846 8310	10/11-10/18/95	5284020
Fluorene	ND	8.0	SW846 8310	10/11-10/18/95	5284020
Phenanthrene	ND	20	SW846 8310	10/11-10/18/95	5284020
Anthracene	ND	20	SW846 8310	10/11-10/18/95	5284020
Fluoranthene	**9.3**	**8.0**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Pyrene	ND	8.0	SW846 8310	10/11-10/18/95	5284020
Benzo(a)anthracene	**3.1**	**0.80**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Chrysene	ND	6.0	SW846 8310	10/11-10/18/95	5284020
Benzo(b)fluoranthene	**4.2**	**0.80**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Benzo(k)fluoranthene	**2.0**	**0.80**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Benzo(a)pyrene	**3.4**	**0.80**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Indeno(1,2,3-cd)pyrene	**2.5**	**2.0**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Dibenzo(a,h)anthracene	ND	1.2	SW846 8310	10/11-10/18/95	5284020
Benzo(g,h,i)perylene	**3.5**	**2.0**	**SW846 8310**	**10/11-10/18/95**	**5284020**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	110	(36 - 144)
2-Fluorobiphenyl	81	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510081-06Q

WO #: A5P77
LAB #: C5J090002-005
MATRIX: SOLID

DATE SAMPLED: 10/04/94
TIME SAMPLED:
DATE RECEIVED: 10/09/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**83.4**		**%**	**MCAWW 160.3 M**	**10/10/95**	**5283038**

NOTE: DRY WEIGHT

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

9510081-07Q

WO #: A5P78101
LAB #: C5J090002-006
MATRIX: SOLID
DILUTION FACTOR: 1.00

DATE SAMPLED: 10/04/94
TIME SAMPLED:
DATE RECEIVED: 10/09/95

- - - - - - - - - - - - - - - - - - REQUESTED PARAMETERS - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	**400**	**42**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Acenaphthylene	**150**	**42**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Acenaphthene	**410**	**42**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Fluorene	**18**	**8.6**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Phenanthrene	**100**	**22**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Anthracene	ND	22	SW846 8310	10/11-10/18/95	5284020
Fluoranthene	**240**	**8.6**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Pyrene	**220**	**8.6**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Benzo(a)anthracene	**58**	**0.86**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Chrysene	**100**	**6.4**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Benzo(b)fluoranthene	**72**	**0.86**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Benzo(k)fluoranthene	**36**	**0.86**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Benzo(a)pyrene	**58**	**0.86**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Indeno(1,2,3-cd)pyrene	**8.9**	**2.2**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Dibenzo(a,h)anthracene	**5.4**	**1.3**	**SW846 8310**	**10/11-10/18/95**	**5284020**
Benzo(g,h,i)perylene	**41**	**2.2**	**SW846 8310**	**10/11-10/18/95**	**5284020**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	132	(36 - 144)
2-Fluorobiphenyl	82	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

9510081-07Q

WO #: A5P78
LAB #: C5J090002-006
MATRIX: SOLID

DATE SAMPLED: 10/04/94
TIME SAMPLED:
DATE RECEIVED: 10/09/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**77.9**		**%**	**MCAWW 160.3 M**	**10/10/95**	**5283038**

NOTE: DRY WEIGHT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510081-08Q

WO #: A5P79101
LAB #: C5J090002-007
MATRIX: SOLID
DILUTION FACTOR: 15.00

DATE SAMPLED: 10/04/94
TIME SAMPLED:
DATE RECEIVED: 10/09/95

- - - - - - - - - - - - - - - - - - REQUESTED PARAMETERS - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	540	SW846 8310	10/11-10/19/95	5284020
Acenaphthylene	**MI (940)**	**540**	**SW846 8310**	**10/11-10/19/95**	**5284020**
Acenaphthene	**580**	**540**	**SW846 8310**	**10/11-10/19/95**	**5284020**
Fluorene	ND	110	SW846 8310	10/11-10/19/95	5284020
Phenanthrene	**660**	**280**	**SW846 8310**	**10/11-10/19/95**	**5284020**
Anthracene	ND	280	SW846 8310	10/11-10/19/95	5284020
Fluoranthene	**1,200**	**110**	**SW846 8310**	**10/11-10/19/95**	**5284020**
Pyrene	**730**	**110**	**SW846 8310**	**10/11-10/19/95**	**5284020**
Benzo(a)anthracene	**370**	**11**	**SW846 8310**	**10/11-10/19/95**	**5284020**
Chrysene	**350**	**83**	**SW846 8310**	**10/11-10/19/95**	**5284020**
Benzo(b)fluoranthene	**580**	**11**	**SW846 8310**	**10/11-10/19/95**	**5284020**
Benzo(k)fluoranthene	**280**	**11**	**SW846 8310**	**10/11-10/19/95**	**5284020**
Benzo(a)pyrene	**390**	**11**	**SW846 8310**	**10/11-10/19/95**	**5284020**
Indeno(1,2,3-cd)pyrene	**300**	**28**	**SW846 8310**	**10/11-10/19/95**	**5284020**
Dibenzo(a,h)anthracene	**46**	**17**	**SW846 8310**	**10/11-10/19/95**	**5284020**
Benzo(g,h,i)perylene	**500**	**28**	**SW846 8310**	**10/11-10/19/95**	**5284020**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	DIL	(36 - 144)
2-Fluorobiphenyl	DIL	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510081-08Q

WO #: A5P79
LAB #: C5J090002-007
MATRIX: SOLID

DATE SAMPLED: 10/04/94
TIME SAMPLED:
DATE RECEIVED: 10/09/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**90.9**		**%**	**MCAWW 160.3 M**	**10/10/95**	**5283038**

NOTE: DRY WEIGHT

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Services

QUALITY CONTROL SECTION

Quanterra
Environmental Services

QUALITY ASSURANCE/QUALITY CONTROL PROGRAM SUMMARY

Quanterra Incorporated considers continuous analytical performance evaluations to be an integral portion of the data package, and routinely includes the pertinent QA/QC data associated with various analytical reports. Brief discussions of the various QA/QC procedures utilized to measure acceptable method and matrix performance follow.

SURROGATE SPIKE RECOVERY EVALUATIONS

Known concentrations of designated surrogate spikes, consisting of a number of similar, non-method compounds or method compounds analogues, are added, as appropriate, to routine GC and GC/MS sample fractions prior to extraction and analysis. The percent recoveries calculated from the subsequent spike recovery data is displayed alongside acceptable analytical method performance limits at the bottom of each applicable analytical result report sheet.

NOTE: Acceptable method performance for Base/Neutral Acid extractables is indicated by two (2) of three (3) surrogates for each fraction with a minimum recovery of ten percent (10%) each. For Pesticides, one (1) of two (2) surrogates meeting performance criteria is acceptable.

LABORATORY ANALYTICAL METHOD BLANK EVALUATIONS

Laboratory analytical method blanks are systematically prepared and analyzed in order to continuously evaluate the system interferences and background contamination levels associated with each analytical method. These method blanks include all aspects of actual laboratory method analysis (chemical reagents, glassware, etc.) substituting laboratory reagent water or solid for actual sample. The method blank must not contain any analytes above the reported detection limit. The following common laboratory contaminants are exceptions to this rule, provided they are not present at a greater than five times the detection limit.

Volatiles	Semi-volatiles
Methylene chloride	Dimethyl phthalate
2-Butanone	Diethyl phthalate
Acetone	Di-n-butyl phthalate
	Butyl benzyl phthalate
	Bis (2-ethylhexyl) phthalate

A minimum of five percent (5%) of all laboratory analyses are laboratory analytical method blanks.

QUALITY ASSURANCE/QUALITY CONTROL PROGRAM SUMMARY (CONT)

LABORATORY ANALYTICAL METHOD CHECK SAMPLE EVALUATIONS

Known concentrations of designated matrix spikes (actual analytical method compounds) are added to a laboratory reagent blank prior to extraction and analysis. Percent recovery determinations demonstrate the performance of the analytical method. Failure of a check sample to meet established laboratory recovery criteria is cause to stop the analysis until the problem is resolved. All compounds must meet laboratory recovery criteria. A minimum of five percent (5%) of all laboratory analyses are laboratory analytical method check samples.

MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD) RECOVERY EVALUATION

Known concentration of designated matrix spikes (actual analytical method compounds) are added to two of three separate aliquots of a sequentially predetermined sample prior to extraction and analysis. Percent recovery determinations are calculated from both of the spiked samples by comparison to the actual values generated from the unspiked sample. These percent recovery determinations indicate the accuracy of the analysis at recovering actual analytical method compounds from the matrix. Actual percent recovery data is displayed alongside the acceptable analytical method performance limits in the QA/QC section of the report. The MS/MSD are considered in control when the associated check sample has been found to be acceptable. A minimum of ten percent (10%) of all analyses are MS/MSD quality control samples.

EXAMPLE

COMPOUND	SAMPLE CONCENTRATION	MS % RECOVERY	MSD % RECOVERY	QC LIMITS[1] RECOVERY
4-4'-DDT	0	95	112	(66-119)
Benzene	10	86	93	(39-150)
compound name	sample result	1st % recovery	2nd % recovery	acceptable method limits

[1]QC limits are statistically derived from historical laboratory data. Where insufficient data exists to statistically derive these limits, they will be labelled "advisory". In this case, they are based on the best available technical information.

For metals analyses, the recoveries of the MS/MSD must be within the range of 80-120%. If they do not meet this criteria, but the RPD of the two results is <20% **OR** the absolute difference is less than 10% when the recoveries are below 50%, no corrective action is required. If these criteria are not met, the sample with its MS/MSD is reprepared and reanalyzed once more.

Quanterra
Environmental Services

INTRA-LAB BLANK REPORT

LAB #: C5J110000-020

- - - - - - - - - - - - - - - POLYNUCLEAR AROMATIC HYDROCARBONS - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	PREPARATION - ANALYSIS DATE	QC BATCH
Acenaphthene	ND	33	10/11-10/17/95	5284020
Acenaphthylene	ND	33	10/11-10/17/95	5284020
Anthracene	ND	17	10/11-10/17/95	5284020
Benzo(a)anthracene	ND	0.67	10/11-10/17/95	5284020
Benzo(b)fluoranthene	ND	0.67	10/11-10/17/95	5284020
Benzo(k)fluoranthene	ND	0.67	10/11-10/17/95	5284020
Benzo(g,h,i)perylene	ND	1.7	10/11-10/17/95	5284020
Benzo(a)pyrene	ND	0.67	10/11-10/17/95	5284020
Chrysene	ND	5.0	10/11-10/17/95	5284020
Fluoranthene	ND	6.7	10/11-10/17/95	5284020
Fluorene	ND	6.7	10/11-10/17/95	5284020
Indeno(1,2,3-cd)pyrene	ND	1.7	10/11-10/17/95	5284020
Naphthalene	ND	33	10/11-10/17/95	5284020
Phenanthrene	ND	17	10/11-10/17/95	5284020
Pyrene	ND	6.7	10/11-10/17/95	5284020
Dibenzo(a,h)anthracene	ND	1.0	10/11-10/17/95	5284020

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	109	(36 - 144)
2-Fluorobiphenyl	103	(47 - 143)

NOTE:

ND (NONE DETECTED)

Quanterra
Environmental Services

CHECK SAMPLE REPORT

QC BATCH: 5284020
LAB #: C5J110000-020 C
DILUTION FACTOR: 1.00

PREPARATION DATE: 10/11/95
DATE ANALYZED: 10/17/95

- - - - - - - - - - - - - - - **Polynuclear Aromatic Hydrocarbons** - - - - - - - - - - - - - -

COMPOUND	SPIKE PERCENT RECOVERY	Q/C LIMITS
Naphthalene	144	(52-163)
Phenanthrene	119	(67-123)
Fluoranthene	118	(65-125)
Chrysene	126	(74-124)
Benzo(a)pyrene	103	(48-129)
Indeno(1,2,3-cd)pyrene	135	(63-133)

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-11, SS-4
Sample Type: Soil

CHES Lab #: 9510081-010
Date Received: 10/05/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	ND	10/12/95	10/17/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
No significant hydrocarbons observed.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 72%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-11, SS-4
Sample Type: Soil

CHES Lab #: 9510081-01M
Date Received: 10/05/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	3	5	10/13/95	10/16/95	3005/6010(c)
Arsenic - Total	7	ND	10/13/95	10/16/95	3050/6010(c)
Beryllium - Total	0.036	0.108	10/13/95	10/16/95	3050/6010(c)
Cadmium - Total	0.36	ND	10/13/95	10/16/95	3050/6010(c)
Chromium - Total	1.1	5.8	10/13/95	10/16/95	3050/6010(c)
Copper - Total	1.1	3.4	10/13/95	10/16/95	3050/6010(c)
Lead - Total	4	ND	10/13/95	10/16/95	3050/6010(c)
Mercury - Total	0.0603	ND	10/17/95	10/18/95	7471(c)
Nickel - Total	1.1	ND	10/13/95	10/16/95	3050/6010(c)
Selenium - Total	7	ND	10/13/95	10/16/95	3050/6010(c)
Silver - Total	0.70	ND	10/13/95	10/16/95	3005/6010(c)
Thallium - Total	10	ND	10/13/95	10/16/95	3050/6010(c)
Zinc - Total	1.4	6.9	10/13/95	10/16/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-11, SS-4
Sample Type: Soil

CHES Lab #: 9510081-01M
Date Received: 10/05/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	1.5	ND	mg/kg	10/11/95	9010(c)
Total Solids	--	82.7	%	10/06/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-11, SS-6
Sample Type: Soil

CHES Lab #: 9510081-020
Date Received: 10/05/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	ND	10/12/95	10/17/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
No significant hydrocarbons observed.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 73%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-11, SS-6
Sample Type: Soil

CHES Lab #: 9510081-02M
Date Received: 10/05/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	4	ND	10/16/95	10/17/95	3005/6010(c)
Arsenic - Total	5	ND	10/16/95	10/17/95	3050/6010(c)
Beryllium - Total	0.026	0.105	10/16/95	10/17/95	3050/6010(c)
Cadmium - Total	0.26	ND	10/16/95	10/17/95	3050/6010(c)
Chromium - Total	0.79	5.7	10/16/95	10/17/95	3050/6010(c)
Copper - Total	0.79	5.2	10/16/95	10/17/95	3050/6010(c)
Lead - Total	3	ND	10/16/95	10/17/95	3050/6010(c)
Mercury - Total	0.0681	ND	10/17/95	10/18/95	7471(c)
Nickel - Total	0.79	ND	10/16/95	10/17/95	3050/6010(c)
Selenium - Total	5	ND	10/16/95	10/17/95	3050/6010(c)
Silver - Total	0.73	ND	10/16/95	10/17/95	3005/6010(c)
Thallium - Total	8	ND	10/16/95	10/17/95	3050/6010(c)
Zinc - Total	1.0	7.1	10/16/95	10/17/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-11, SS-6
Sample Type: Soil

CHES Lab #: 9510081-02M
Date Received: 10/05/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	1.9	ND	mg/kg	10/11/95	9010(c)
Total Solids	--	85.5	%	10/06/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-12, SS-5
Sample Type: Soil

CHES Lab #: 9510081-030
Date Received: 10/05/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	150	10/12/95	10/17/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-12, SS-5
Sample Type: Soil

CHES Lab #: 9510081-03M
Date Received: 10/05/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	3	ND	10/16/95	10/17/95	3005/6010(c)
Arsenic - Total	6	ND	10/16/95	10/17/95	3050/6010(c)
Beryllium - Total	0.032	0.161	10/16/95	10/17/95	3050/6010(c)
Cadmium - Total	0.32	ND	10/16/95	10/17/95	3050/6010(c)
Chromium - Total	0.97	10	10/16/95	10/17/95	3050/6010(c)
Copper - Total	0.97	5.2	10/16/95	10/17/95	3050/6010(c)
Lead - Total	3	20	10/16/95	10/17/95	3050/6010(c)
Mercury - Total	0.0644	ND	10/17/95	10/18/95	7471(c)
Nickel - Total	0.97	5.2	10/16/95	10/17/95	3050/6010(c)
Selenium - Total	6	ND	10/16/95	10/17/95	3050/6010(c)
Silver - Total	0.63	ND	10/16/95	10/17/95	3005/6010(c)
Thallium - Total	10	ND	10/16/95	10/17/95	3050/6010(c)
Zinc - Total	1.3	24	10/16/95	10/17/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-12, SS-5
Sample Type: Soil

CHES Lab #: 9510081-03M
Date Received: 10/05/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	1.9	ND	mg/kg	10/11/95	9010(c)
Total Solids	--	83.9	%	10/06/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-13, SS-1
Sample Type: Soil

CHES Lab #: 9510081-040
Date Received: 10/05/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	22	4,700	10/12/95	10/17/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-13, SS-1
Sample Type: Soil

CHES Lab #: 9510081-04M
Date Received: 10/05/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	2	ND	10/16/95	10/17/95	3005/6010(c)
Arsenic - Total	7	9	10/16/95	10/17/95	3050/6010(c)
Beryllium - Total	0.033	0.232	10/16/95	10/17/95	3050/6010(c)
Cadmium - Total	0.33	0.43	10/16/95	10/17/95	3050/6010(c)
Chromium - Total	1.0	15	10/16/95	10/17/95	3050/6010(c)
Copper - Total	1.0	16	10/16/95	10/17/95	3050/6010(c)
Lead - Total	3	70	10/16/95	10/17/95	3050/6010(c)
Mercury - Total	0.0570	0.5339	10/17/95	10/18/95	7471(c)
Nickel - Total	1.0	8.9	10/16/95	10/17/95	3050/6010(c)
Selenium - Total	7	ND	10/16/95	10/17/95	3050/6010(c)
Silver - Total	0.47	ND	10/16/95	10/17/95	3005/6010(c)
Thallium - Total	10	ND	10/16/95	10/17/95	3050/6010(c)
Zinc - Total	1.3	57	10/16/95	10/17/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-13, SS-1
Sample Type: Soil

CHES Lab #: 9510081-04M
Date Received: 10/05/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	1.8	ND	mg/kg	10/11/95	9010(c)
Total Solids	--	91.6	%	10/06/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-13, SS-5
Sample Type: Soil

CHES Lab #: 9510081-050
Date Received: 10/05/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	24	1,200	10/12/95	10/17/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-13, SS-5
Sample Type: Soil

CHES Lab #: 9510081-05M
Date Received: 10/05/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	3	ND	10/16/95	10/17/95	3005/6010(c)
Arsenic - Total	7	ND	10/16/95	10/17/95	3050/6010(c)
Beryllium - Total	0.035	0.140	10/16/95	10/17/95	3050/6010(c)
Cadmium - Total	0.35	ND	10/16/95	10/17/95	3050/6010(c)
Chromium - Total	1.1	6.5	10/16/95	10/17/95	3050/6010(c)
Copper - Total	1.1	6.0	10/16/95	10/17/95	3050/6010(c)
Lead - Total	4	10	10/16/95	10/17/95	3050/6010(c)
Mercury - Total	0.0773	ND	10/17/95	10/18/95	7471(c)
Nickel - Total	1.1	1.1	10/16/95	10/17/95	3050/6010(c)
Selenium - Total	7	ND	10/16/95	10/17/95	3050/6010(c)
Silver - Total	0.68	ND	10/16/95	10/17/95	3005/6010(c)
Thallium - Total	10	ND	10/16/95	10/17/95	3050/6010(c)
Zinc - Total	1.4	15	10/16/95	10/17/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-13, SS-5
Sample Type: Soil

CHES Lab #: 9510081-05M
Date Received: 10/05/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	1.3	ND	mg/kg	10/11/95	9010(c)
Total Solids	--	80.5	%	10/06/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-7, SS-5
Sample Type: Soil

CHES Lab #: 9510081-060
Date Received: 10/05/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	11	10/12/95	10/17/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil with additional single component peaks.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 81%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-7, SS-5
Sample Type: Soil

CHES Lab #: 9510081-06M
Date Received: 10/05/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	4	ND	10/17/95	10/18/95	3005/6010(c)
Arsenic - Total	7	ND	10/17/95	10/18/95	3050/6010(c)
Beryllium - Total	0.036	0.109	10/17/95	10/18/95	3050/6010(c)
Cadmium - Total	0.36	ND	10/17/95	10/18/95	3050/6010(c)
Chromium - Total	1.1	6.1	10/17/95	10/18/95	3050/6010(c)
Copper - Total	1.1	3.6	10/17/95	10/18/95	3050/6010(c)
Lead - Total	4	ND	10/17/95	10/18/95	3050/6010(c)
Mercury - Total	0.0639	ND	10/17/95	10/18/95	7471(c)
Nickel - Total	1.1	3.2	10/17/95	10/18/95	3050/6010(c)
Selenium - Total	7	ND	10/17/95	10/18/95	3050/6010(c)
Silver - Total	0.77	ND	10/17/95	10/18/95	3005/6010(c)
Thallium - Total	10	ND	10/17/95	10/18/95	3050/6010(c)
Zinc - Total	1.5	9.7	10/17/95	10/18/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-7, SS-5
Sample Type: Soil

CHES Lab #: 9510081-06M
Date Received: 10/05/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	2.4	ND	mg/kg	10/11/95	9010(c)
Total Solids	--	83.9	%	10/06/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-8, SS-1
Sample Type: Soil

CHES Lab #: 9510081-070
Date Received: 10/05/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	22	1,600	10/12/95	10/17/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-8, SS-1
Sample Type: Soil

CHES Lab #: 9510081-07M
Date Received: 10/05/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	4	ND	10/17/95	10/18/95	3005/6010(c)
Arsenic - Total	6	10	10/17/95	10/18/95	3050/6010(c)
Beryllium - Total	0.031	0.309	10/17/95	10/18/95	3050/6010(c)
Cadmium - Total	0.31	0.83	10/17/95	10/18/95	3050/6010(c)
Chromium - Total	0.93	24	10/17/95	10/18/95	3050/6010(c)
Copper - Total	0.93	48	10/17/95	10/18/95	3050/6010(c)
Lead - Total	3	1,900	10/17/95	10/18/95	3050/6010(c)
Mercury - Total	0.0567	0.3167	10/17/95	10/18/95	7471(c)
Nickel - Total	0.93	17	10/17/95	10/18/95	3050/6010(c)
Selenium - Total	6	ND	10/17/95	10/18/95	3050/6010(c)
Silver - Total	0.70	ND	10/17/95	10/18/95	3005/6010(c)
Thallium - Total	9	ND	10/17/95	10/18/95	3050/6010(c)
Zinc - Total	1.2	70	10/17/95	10/18/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-8, SS-1
Sample Type: Soil

CHES Lab #: 9510081-07M
Date Received: 10/05/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	1.9	ND	mg/kg	10/11/95	9010(c)
Total Solids	--	90.1	%	10/06/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-8, SS-4
Sample Type: Soil

CHES Lab #: 9510081-080
Date Received: 10/05/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	38	10/12/95	10/17/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbon mixture observed with an appearance characteristic of diesel fuel or #2 fuel oil and lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 75%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-8, SS-4
Sample Type: Soil

CHES Lab #: 9510081-08M
Date Received: 10/05/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	3	ND	10/17/95	10/18/95	3005/6010(c)
Arsenic - Total	8	ND	10/17/95	10/18/95	3050/6010(c)
Beryllium - Total	0.041	0.205	10/17/95	10/18/95	3050/6010(c)
Cadmium - Total	0.41	ND	10/17/95	10/18/95	3050/6010(c)
Chromium - Total	1.2	5.8	10/17/95	10/18/95	3050/6010(c)
Copper - Total	1.2	1.9	10/17/95	10/18/95	3050/6010(c)
Lead - Total	4	10	10/17/95	10/18/95	3050/6010(c)
Mercury - Total	0.0818	ND	10/17/95	10/18/95	7471(c)
Nickel - Total	1.2	ND	10/17/95	10/18/95	3050/6010(c)
Selenium - Total	8	ND	10/17/95	10/18/95	3050/6010(c)
Silver - Total	0.66	ND	10/17/95	10/18/95	3005/6010(c)
Thallium - Total	10	ND	10/17/95	10/18/95	3050/6010(c)
Zinc - Total	1.6	6.6	10/17/95	10/18/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-8, SS-4
Sample Type: Soil

CHES Lab #: 9510081-08M
Date Received: 10/05/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	1.5	ND	mg/kg	10/11/95	9010(c)
Total Solids	--	75.9	%	10/06/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

QUALITY CONTROL

REPORT OF ANALYSIS

CHES LAB. NO. 9510081

The attached quality control data were generated during the analysis of these samples. All results have been generated in accordance with the procedures as stated in the Clean Harbors Environmental Services, Inc. Quality Assurance/Quality Control Manual and pertinent standard operating procedures, which are available for review. The attached has been submitted for informational purposes only.

Parameter	PQL*	Result	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	ND	10/12/95	10/17/95	**

Notes:

ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.
* = mg/kg
** = U.S. EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual; November 1990.
Hydrocarbon quantitative range:

C10 - C38

Hydrocarbon qualitative identification:

No significant hydrocarbon observed.

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 69 %	50 - 150%

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9510081

BLANK ANALYSIS

METALS

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	0.1	ND	10/13/95	10/16/95	3005/6010(c)
Arsenic - Total	0.2	ND	10/13/95	10/16/95	3050/6010(c)
Beryllium - Total	0.001	ND	10/13/95	10/16/95	3050/6010(c)
Cadmium - Total	0.01	ND	10/13/95	10/16/95	3050/6010(c)
Chromium - Total	0.03	ND	10/13/95	10/16/95	3050/6010(c)
Copper - Total	0.03	ND	10/13/95	10/16/95	3050/6010(c)
Lead - Total	0.1	ND	10/13/95	10/16/95	3050/6010(c)
Mercury - Total	0.0002	ND	10/17/95	10/18/95	7471(c)
Nickel - Total	0.03	ND	10/13/95	10/16/95	3050/6010(c)
Selenium - Total	0.2	ND	10/13/95	10/16/95	3050/6010(c)
Silver - Total	0.02	ND	10/13/95	10/16/95	3005/6010(c)
Thallium - Total	0.3	ND	10/13/95	10/16/95	3050/6010(c)
Zinc - Total	0.04	ND	10/13/95	10/16/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9510081

BLANK ANALYSIS

METALS

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	0.1	ND	10/16/95	10/17/95	3005/6010(c)
Arsenic - Total	0.2	ND	10/16/95	10/17/95	3050/6010(c)
Beryllium - Total	0.001	ND	10/16/95	10/17/95	3050/6010(c)
Cadmium - Total	0.01	ND	10/16/95	10/17/95	3050/6010(c)
Chromium - Total	0.03	ND	10/16/95	10/17/95	3050/6010(c)
Copper - Total	0.03	ND	10/16/95	10/17/95	3050/6010(c)
Lead - Total	0.1	ND	10/16/95	10/17/95	3050/6010(c)
Mercury - Total	0.0002	ND	10/17/95	10/18/95	7471(c)
Nickel - Total	0.03	ND	10/16/95	10/17/95	3050/6010(c)
Selenium - Total	0.2	ND	10/16/95	10/17/95	3050/6010(c)
Silver - Total	0.02	ND	10/16/95	10/17/95	3005/6010(c)
Thallium - Total	0.3	ND	10/16/95	10/17/95	3050/6010(c)
Zinc - Total	0.04	ND	10/16/95	10/17/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9510081

BLANK ANALYSIS

METALS

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	0.1	ND	10/17/95	10/18/95	3005/6010(c)
Arsenic - Total	0.2	ND	10/17/95	10/18/95	3050/6010(c)
Beryllium - Total	0.001	ND	10/17/95	10/18/95	3050/6010(c)
Cadmium - Total	0.01	ND	10/17/95	10/18/95	3050/6010(c)
Chromium - Total	0.03	ND	10/17/95	10/18/95	3050/6010(c)
Copper - Total	0.03	ND	10/17/95	10/18/95	3050/6010(c)
Lead - Total	0.1	ND	10/17/95	10/18/95	3050/6010(c)
Mercury - Total	0.0002	ND	10/17/95	10/18/95	7471(c)
Nickel - Total	0.03	ND	10/17/95	10/18/95	3050/6010(c)
Selenium - Total	0.2	ND	10/17/95	10/18/95	3050/6010(c)
Silver - Total	0.02	ND	10/17/95	10/18/95	3005/6010(c)
Thallium - Total	0.3	ND	10/17/95	10/18/95	3050/6010(c)
Zinc - Total	0.04	ND	10/17/95	10/18/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9510081

BLANK ANALYSIS

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	10/11/95	9010(c)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight

1/1/10/6

CleanHarbors

Clean Harbors Analytical Services, Inc., 325 Wood Rd., Braintree, MA 02184 | CHAIN OF CUSTODY RECORD | Sample Custodian — (617) 849-1800 | Page 1 of 2

Client: CHES Project Name: MURPHY'S WASTE OIL SERVICE Work Order/P.O. #: EN-170 Date: 10/5/95

Report To: JAY MCKEERY Address: 12 MERCER ROAD, NATICK, MA. Phone #: X6399

Date Samples Collected: 10/4/95 by: P. NICEWONGER Date Samples Received:

Airbill/Bill of Lading? Y N NOTE: Samples received unpreserved will be preserved upon arrival at CHAS. Samples were: Preserved Unpreserved

Sample I.D.	Sampling Information: Date	Time	Station Location	Sample Matrix	Analysis: VOA 8240	TPH 8CFID	PAHs by HPLC	13 P.P. TOT. METL	TOT. CYANIDE				# of con.	CHAS Sample # 9510081 PS 10/5
B-11	10/4		SS-4	SOIL	1	1	1	1	1				2	01A, M, O, Q
B-11			SS-6		1	1	1	1	1				2	02A, M, O, Q
B-12			SS-5		1	1	1	1	1				2	03A, M, O, Q
B-13			SS-1		1	1	1	1	1				2	04A, M, O, Q
B-13			SS-5		1	1	1	1	1				2	05A, M, O, Q
B-7			SS-5		1	1	1	1	1				2	06A, M, O, Q
B-8			SS-1		1	1	1	1	1				2	07A, M, O, Q
B-8			SS-4		1	1	1	1	1				2	08A, M, O, Q

VOA Vial								
Glass Bottle								
Plastic Bottle								
Pres.								
Volume								

Relinquished by: [signature] Date: 10/5/95 Time: 5:00 PM

Received by: [signature] Date: 10-5-95 Time: 1700

Relinquished by: [signature] Date: 10-5-95 Time: 1800

Received by: [signature] Date: 10/5/95 Time: 1800

Preservation Key: A — Acidified with _____
B — Filtered, C — Sample chilled, D— NaOH,
E — NaThiosulfate, W — Sample Ambient, F — Other

REMARKS/COMMENTS: (Sample storage, nonstandard bottles, cautions, special instructions)

Standard laboratory turnaround time is 2 weeks from date of receipt. Accelerated turnaround may be assessed a surcharge.
Accelerated turnaround requested: _____
Confirmed by: _____ Surcharge: _____

Location of samples: R4, R9R2, Quonset

Turnaround: 24 Hrs. 48 Hrs. 1 Week 2 Weeks Other: _____

OFFICE COPY

CHI 119

CleanHarbors
ENVIRONMENTAL SERVICES, INC.
325 WOOD ROAD • BRAINTREE, MA 02184
(617) 849-1800

REPORT OF ANALYSIS

Clean Harbors Environmental Services, Inc.
12 Mercer Road
Natick, MA 01760

Project: MURPHY'S WASTE OIL SERVICE
P.O. #: EN170

Date Received: 10/10/95
CHES Lab #: 9510133

Attn: Mr. Jay McCreery

Enclosed are the results for the sample(s) delivered to our laboratory (DEP Laboratory ID# M-MA032) on the date indicated above.

The methods listed represent those methodologies which were used to develop the best analytical techniques. Analytical results and quality assurance protocols are based on these guidelines. These meet the requirements for the reporting of results under the RCRA, NPDES and Safe Drinking Water Act regulations.

Clean Harbors Environmental Services has an active program of quality assurance and quality control. The program closely follows the guidance provided in the EPA Contract Laboratory Program Statement of Work (organic and inorganic), the guidance provided in SW-846, and many other pertinent documents.

Should you have any questions concerning this work, please do not hesitate to contact me.

The information contained in this report is, to the best of my knowledge, accurate and complete.

Per/Date: Michael J. Murray 10/28/95

Michael J. Murray
Laboratory Manager

Quanterra Environmental Services

Quanterra Incorporated
450 William Pitt Way
Pittsburgh, Pennsylvania 15238

412 826-5477 Telephone
412 826-5571 Fax

ANALYTICAL REPORT

PROJECT NO. 9510133

CLEAN HARBOR

PETER CONROY

CLEAN HARBORS ANALYTICAL

QUANTERRA INCORPORATED

Adrinnia L. Washington

Adrinnia Washington
Project Manager

October 23, 1995

Quanterra
Environmental Services

NARRATIVE

The following report contains the analytical results for samples submitted to Quanterra Incorporated. The samples were received into the laboratory in accordance with documented sample acceptance procedures.

Quanterra utilizes USEPA approved methods and instrumentation in all analytical work. The methods used for the analyses presented in this study can be found on the following pages.

A Quality Control Section, containing a summary of QA/QC data for these analyses, is included at the end of the report.

The following codes are utilized in various analyses of this report:

ND	(None Detected)
DIL	(Diluted Out)
MI	(Matrix Interference)
NEG	(Negative)
J	(Detected, but below quantitation limit; estimated value)
B	(Compounds detected in method blank associated with this sample)
W	(Post digestion spike recovery fell between 40 - 85 %)
S	(Sample result determined by the Method of Standard Additions)
+	(Sample result determined by the Method of Standard Additions and the correlation coefficient was less than 0.995)

CASE NARRATIVE

Due to the sample matrix, several samples required a dilution. As a result, surrogates were diluted out. Also, the compound indeno (1,2,3-cd) pyrene is reported as a matrix interference with a maximum estimated value. The laboratory control sample is outside of QC limits.

Quanterra
Environmental Services

ANALYTICAL METHODS SUMMARY

Parameters	Methods
Polynuclear Aromatic Hydrocarbons Hydrocarbons	SW846 8310
Solids, Total (TS)	MCAWW 160.3 MODIFIED

References:

MCAWW Methods for Chemical Analysis of Water and Wastes, EMSL: Cincinnati, OH: March 1983 and subsequent revisions

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, September, 1986 and subsequent revisions

Quanterra
Environmental Services

SAMPLE SUMMARY

The analytical results of the samples listed below are presented on the following pages.

WO #	LABORATORY ID	SAMPLE IDENTIFICATION	DATE/TIME SAMPLED
A5PD0	C5J110003-001	9510133-01Q	10/10/95
A5PD1	C5J110003-002	9510133-02Q	10/10/95
A5PD2	C5J110003-003	9510133-03Q	10/10/95
A5PD3	C5J110003-004	9510133-04Q	10/10/95
A5PD4	C5J110003-005	9510133-05Q	10/10/95

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

9510133-01Q

WO #: A5PD0101
LAB #: C5J110003-001
MATRIX: SOLID
DILUTION FACTOR: 40.00

DATE SAMPLED: 10/10/95
TIME SAMPLED:
DATE RECEIVED: 10/11/95

REQUESTED PARAMETERS

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	1,400	SW846 8310	10/16-10/20/95	5290016
Acenaphthylene	**MI (4,100)**	**1,400**	**SW846 8310**	**10/16-10/20/95**	**5290016**
Acenaphthene	**4,200**	**1,400**	**SW846 8310**	**10/16-10/20/95**	**5290016**
Fluorene	ND	280	SW846 8310	10/16-10/20/95	5290016
Phenanthrene	**5,000**	**710**	**SW846 8310**	**10/16-10/20/95**	**5290016**
Anthracene	ND	710	SW846 8310	10/16-10/20/95	5290016
Fluoranthene	**5,900**	**280**	**SW846 8310**	**10/16-10/20/95**	**5290016**
Pyrene	**5,300**	**280**	**SW846 8310**	**10/16-10/20/95**	**5290016**
Benzo(a)anthracene	**990**	**28**	**SW846 8310**	**10/16-10/20/95**	**5290016**
Chrysene	**3,100**	**210**	**SW846 8310**	**10/16-10/20/95**	**5290016**
Benzo(b)fluoranthene	**1,800**	**28**	**SW846 8310**	**10/16-10/20/95**	**5290016**
Benzo(k)fluoranthene	**1,000**	**28**	**SW846 8310**	**10/16-10/20/95**	**5290016**
Benzo(a)pyrene	**2,200**	**28**	**SW846 8310**	**10/16-10/20/95**	**5290016**
Indeno(1,2,3-cd)pyrene	**2,000**	**71**	**SW846 8310**	**10/16-10/20/95**	**5290016**
Dibenzo(a,h)anthracene	**160**	**42**	**SW846 8310**	**10/16-10/20/95**	**5290016**
Benzo(g,h,i)perylene	**1,700**	**71**	**SW846 8310**	**10/16-10/20/95**	**5290016**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	DIL	(36 - 144)
2-Fluorobiphenyl	DIL	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

9510133-01Q

WO #: A5PD0
LAB #: C5J110003-001
MATRIX: SOLID

DATE SAMPLED: 10/10/95
TIME SAMPLED:
DATE RECEIVED: 10/11/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**95.6**		**%**	**MCAWW 160.3 M**	**10/12/95**	**5285056**

NOTE: DRY WEIGHT

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

9510133-02Q

WO #: A5PD1101
LAB #: C5J110003-002
MATRIX: SOLID
DILUTION FACTOR: 6.00

DATE SAMPLED: 10/10/95
TIME SAMPLED:
DATE RECEIVED: 10/11/95

- - - - - - - - - - - - - - - - - - REQUESTED PARAMETERS - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	240	SW846 8310	10/16-10/20/95	5290016
Acenaphthylene	**MI (730)**	**240**	**SW846 8310**	**10/16-10/20/95**	**5290016**
Acenaphthene	**580**	**240**	**SW846 8310**	**10/16-10/20/95**	**5290016**
Fluorene	ND	50	SW846 8310	10/16-10/20/95	5290016
Phenanthrene	**820**	**130**	**SW846 8310**	**10/16-10/20/95**	**5290016**
Anthracene	ND	130	SW846 8310	10/16-10/20/95	5290016
Fluoranthene	**1,100**	**50**	**SW846 8310**	**10/16-10/20/95**	**5290016**
Pyrene	**940**	**50**	**SW846 8310**	**10/16-10/20/95**	**5290016**
Benzo(a)anthracene	**170**	**5.0**	**SW846 8310**	**10/16-10/20/95**	**5290016**
Chrysene	**620**	**37**	**SW846 8310**	**10/16-10/20/95**	**5290016**
Benzo(b)fluoranthene	**410**	**5.0**	**SW846 8310**	**10/16-10/20/95**	**5290016**
Benzo(k)fluoranthene	**200**	**5.0**	**SW846 8310**	**10/16-10/20/95**	**5290016**
Benzo(a)pyrene	**400**	**5.0**	**SW846 8310**	**10/16-10/20/95**	**5290016**
Indeno(1,2,3-cd)pyrene	**MI (670)**	**13**	**SW846 8310**	**10/16-10/20/95**	**5290016**
Dibenzo(a,h)anthracene	**30**	**7.4**	**SW846 8310**	**10/16-10/20/95**	**5290016**
Benzo(g,h,i)perylene	**310**	**13**	**SW846 8310**	**10/16-10/20/95**	**5290016**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	DIL	(36 - 144)
2-Fluorobiphenyl	DIL	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

9510133-02Q

WO #: A5PD1
LAB #: C5J110003-002
MATRIX: SOLID

DATE SAMPLED: 10/10/95
TIME SAMPLED:
DATE RECEIVED: 10/11/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**81.0**		**%**	**MCAWW 160.3 M**	**10/12/95**	**5285056**

NOTE: DRY WEIGHT

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

9510133-03Q

WO #: A5PD2101
LAB #: C5J110003-003
MATRIX: SOLID
DILUTION FACTOR: 80.00

DATE SAMPLED: 10/10/95
TIME SAMPLED:
DATE RECEIVED: 10/11/95

REQUESTED PARAMETERS

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	2,900	SW846 8310	10/16-10/20/95	5290016
Acenaphthylene	3,200	2,900	SW846 8310	10/16-10/20/95	5290016
Acenaphthene	5,100	2,900	SW846 8310	10/16-10/20/95	5290016
Fluorene	700	600	SW846 8310	10/16-10/20/95	5290016
Phenanthrene	9,000	1,500	SW846 8310	10/16-10/20/95	5290016
Anthracene	2,600	1,500	SW846 8310	10/16-10/20/95	5290016
Fluoranthene	11,000	600	SW846 8310	10/16-10/20/95	5290016
Pyrene	13,000	600	SW846 8310	10/16-10/20/95	5290016
Benzo(a)anthracene	4,900	60	SW846 8310	10/16-10/20/95	5290016
Chrysene	7,100	440	SW846 8310	10/16-10/20/95	5290016
Benzo(b)fluoranthene	4,100	60	SW846 8310	10/16-10/20/95	5290016
Benzo(k)fluoranthene	2,300	60	SW846 8310	10/16-10/20/95	5290016
Benzo(a)pyrene	5,900	60	SW846 8310	10/16-10/20/95	5290016
Indeno(1,2,3-cd)pyrene	420	150	SW846 8310	10/16-10/20/95	5290016
Dibenzo(a,h)anthracene	380	89	SW846 8310	10/16-10/20/95	5290016
Benzo(g,h,i)perylene	4,000	150	SW846 8310	10/16-10/20/95	5290016

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	DIL	(36 - 144)
2-Fluorobiphenyl	DIL	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510133-03Q

WO #: A5PD2
LAB #: C5J110003-003
MATRIX: SOLID

DATE SAMPLED: 10/10/95
TIME SAMPLED:
DATE RECEIVED: 10/11/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**90.1**		**%**	**MCAWW 160.3 M**	**10/12/95**	**5285056**

NOTE: DRY WEIGHT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510133-04Q

WO #: A5PD3101
LAB #: C5J110003-004
MATRIX: SOLID
DILUTION FACTOR: 5.00

DATE SAMPLED: 10/10/95
TIME SAMPLED:
DATE RECEIVED: 10/11/95

- - - - - - - - - - - - - - - - - - REQUESTED PARAMETERS - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	190	SW846 8310	10/16-10/23/95	5290016
Acenaphthylene	ND	190	SW846 8310	10/16-10/23/95	5290016
Acenaphthene	ND	190	SW846 8310	10/16-10/23/95	5290016
Fluorene	ND	39	SW846 8310	10/16-10/23/95	5290016
Phenanthrene	**130**	**98**	**SW846 8310**	**10/16-10/23/95**	**5290016**
Anthracene	ND	98	SW846 8310	10/16-10/23/95	5290016
Fluoranthene	**240**	**39**	**SW846 8310**	**10/16-10/23/95**	**5290016**
Pyrene	**250**	**39**	**SW846 8310**	**10/16-10/23/95**	**5290016**
Benzo(a)anthracene	**100**	**3.9**	**SW846 8310**	**10/16-10/23/95**	**5290016**
Chrysene	**130**	**29**	**SW846 8310**	**10/16-10/23/95**	**5290016**
Benzo(b)fluoranthene	**120**	**3.9**	**SW846 8310**	**10/16-10/23/95**	**5290016**
Benzo(k)fluoranthene	**62**	**3.9**	**SW846 8310**	**10/16-10/23/95**	**5290016**
Benzo(a)pyrene	**160**	**3.9**	**SW846 8310**	**10/16-10/23/95**	**5290016**
Indeno(1,2,3-cd)pyrene	**23**	**9.8**	**SW846 8310**	**10/16-10/23/95**	**5290016**
Dibenzo(a,h)anthracene	**20**	**5.8**	**SW846 8310**	**10/16-10/23/95**	**5290016**
Benzo(g,h,i)perylene	**160**	**9.8**	**SW846 8310**	**10/16-10/23/95**	**5290016**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	DIL	(36 - 144)
2-Fluorobiphenyl	DIL	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

MW-10 (SS-2)

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510133-04Q

WO #: A5PD3
LAB #: C5J110003-004
MATRIX: SOLID

DATE SAMPLED: 10/10/95
TIME SAMPLED:
DATE RECEIVED: 10/11/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**87.0**		**%**	**MCAWW 160.3 M**	**10/12/95**	**5285056**

NOTE: DRY WEIGHT

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510133-05Q

WO #: A5PD4101
LAB #: C5J110003-005
MATRIX: SOLID
DILUTION FACTOR: 1.00

DATE SAMPLED: 10/10/95
TIME SAMPLED:
DATE RECEIVED: 10/11/95

REQUESTED PARAMETERS

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Naphthalene	ND	37	SW846 8310	10/16-10/20/95	5290016
Acenaphthylene	ND	37	SW846 8310	10/16-10/20/95	5290016
Acenaphthene	ND	37	SW846 8310	10/16-10/20/95	5290016
Fluorene	ND	7.5	SW846 8310	10/16-10/20/95	5290016
Phenanthrene	ND	19	SW846 8310	10/16-10/20/95	5290016
Anthracene	ND	19	SW846 8310	10/16-10/20/95	5290016
Fluoranthene	ND	7.5	SW846 8310	10/16-10/20/95	5290016
Pyrene	ND	7.5	SW846 8310	10/16-10/20/95	5290016
Benzo(a)anthracene	ND	0.75	SW846 8310	10/16-10/20/95	5290016
Chrysene	ND	5.6	SW846 8310	10/16-10/20/95	5290016
Benzo(b)fluoranthene	ND	0.75	SW846 8310	10/16-10/20/95	5290016
Benzo(k)fluoranthene	ND	0.75	SW846 8310	10/16-10/20/95	5290016
Benzo(a)pyrene	ND	0.75	SW846 8310	10/16-10/20/95	5290016
Indeno(1,2,3-cd)pyrene	ND	1.9	SW846 8310	10/16-10/20/95	5290016
Dibenzo(a,h)anthracene	ND	1.1	SW846 8310	10/16-10/20/95	5290016
Benzo(g,h,i)perylene	ND	1.9	SW846 8310	10/16-10/20/95	5290016

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	91	(36 - 144)
2-Fluorobiphenyl	75	(47 - 143)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT

MW-10 (SS-4)

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

9510133-05Q

WO #: A5PD4
LAB #: C5J110003-005
MATRIX: SOLID

DATE SAMPLED: 10/10/95
TIME SAMPLED:
DATE RECEIVED: 10/11/95

- - - - - - - - - - - - - - - - - - **INORGANIC ANALYTICAL REPORT** - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	**89.9**		**%**	**MCAWW 160.3 M**	**10/12/95**	**5285056**

NOTE: DRY WEIGHT

Quanterra
Environmental Services

QUALITY CONTROL SECTION

Quanterra
Environmental Services

QUALITY ASSURANCE/QUALITY CONTROL PROGRAM SUMMARY

Quanterra Incorporated considers continuous analytical performance evaluations to be an integral portion of the data package, and routinely includes the pertinent QA/QC data associated with various analytical reports. Brief discussions of the various QA/QC procedures utilized to measure acceptable method and matrix performance follow.

SURROGATE SPIKE RECOVERY EVALUATIONS

Known concentrations of designated surrogate spikes, consisting of a number of similar, non-method compounds or method compounds analogues, are added, as appropriate, to routine GC and GC/MS sample fractions prior to extraction and analysis. The percent recoveries calculated from the subsequent spike recovery data is displayed alongside acceptable analytical method performance limits at the bottom of each applicable analytical result report sheet.

NOTE: Acceptable method performance for Base/Neutral Acid extractables is indicated by two (2) of three (3) surrogates for each fraction with a minimum recovery of ten percent (10%) each. For Pesticides, one (1) of two (2) surrogates meeting performance criteria is acceptable.

LABORATORY ANALYTICAL METHOD BLANK EVALUATIONS

Laboratory analytical method blanks are systematically prepared and analyzed in order to continuously evaluate the system interferences and background contamination levels associated with each analytical method. These method blanks include all aspects of actual laboratory method analysis (chemical reagents, glassware, etc.) substituting laboratory reagent water or solid for actual sample. The method blank must not contain any analytes above the reported detection limit. The following common laboratory contaminants are exceptions to this rule, provided they are not present at a greater than five times the detection limit.

Volatiles	Semi-volatiles
Methylene chloride	Dimethyl phthalate
2-Butanone	Diethyl phthalate
Acetone	Di-n-butyl phthalate
	Butyl benzyl phthalate
	Bis (2-ethylhexyl) phthalate

A minimum of five percent (5%) of all laboratory analyses are laboratory analytical method blanks.

QUALITY ASSURANCE/QUALITY CONTROL PROGRAM SUMMARY (CONT)

LABORATORY ANALYTICAL METHOD CHECK SAMPLE EVALUATIONS

Known concentrations of designated matrix spikes (actual analytical method compounds) are added to a laboratory reagent blank prior to extraction and analysis. Percent recovery determinations demonstrate the performance of the analytical method. Failure of a check sample to meet established laboratory recovery criteria is cause to stop the analysis until the problem is resolved. All compounds must meet laboratory recovery criteria. A minimum of five percent (5%) of all laboratory analyses are laboratory analytical method check samples.

MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD) RECOVERY EVALUATION

Known concentration of designated matrix spikes (actual analytical method compounds) are added to two of three separate aliquots of a sequentially predetermined sample prior to extraction and analysis. Percent recovery determinations are calculated from both of the spiked samples by comparison to the actual values generated from the unspiked sample. These percent recovery determinations indicate the accuracy of the analysis at recovering actual analytical method compounds from the matrix. Actual percent recovery data is displayed alongside the acceptable analytical method performance limits in the QA/QC section of the report. The MS/MSD are considered in control when the associated check sample has been found to be acceptable. A minimum of ten percent (10%) of all analyses are MS/MSD quality control samples.

EXAMPLE

COMPOUND	SAMPLE CONCENTRATION	MS % RECOVERY	MSD % RECOVERY	QC LIMITS[1] RECOVERY
4-4'-DDT	0	95	112	(66-119)
Benzene	10	86	93	(39-150)
compound name	sample result	1st % recovery	2nd % recovery	acceptable method limits

[1]QC limits are statistically derived from historical laboratory data. Where insufficient data exists to statistically derive these limits, they will be labelled "advisory". In this case, they are based on the best available technical information.

For metals analyses, the recoveries of the MS/MSD must be within the range of 80-120%. If they do not meet this criteria, but the RPD of the two results is <20% OR the absolute difference is less than 10% when the recoveries are below 50%, no corrective action is required. If these criteria are not met, the sample with its MS/MSD is reprepared and reanalyzed once more.

Quanterra Environmental Services

INTRA-LAB BLANK REPORT

LAB #: C5J170000-016

- - - - - - - - - - - - - - - POLYNUCLEAR AROMATIC HYDROCARBONS - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	PREPARATION - ANALYSIS DATE	QC BATCH
Acenaphthene	ND	33	10/16-10/20/95	5290016
Acenaphthylene	ND	33	10/16-10/20/95	5290016
Anthracene	ND	17	10/16-10/20/95	5290016
Benzo(a)anthracene	ND	0.67	10/16-10/20/95	5290016
Benzo(b)fluoranthene	ND	0.67	10/16-10/20/95	5290016
Benzo(k)fluoranthene	ND	0.67	10/16-10/20/95	5290016
Benzo(g,h,i)perylene	ND	1.7	10/16-10/20/95	5290016
Benzo(a)pyrene	ND	0.67	10/16-10/20/95	5290016
Chrysene	ND	5.0	10/16-10/20/95	5290016
Fluoranthene	ND	6.7	10/16-10/20/95	5290016
Fluorene	ND	6.7	10/16-10/20/95	5290016
Indeno(1,2,3-cd)pyrene	ND	1.7	10/16-10/20/95	5290016
Naphthalene	ND	33	10/16-10/20/95	5290016
Phenanthrene	ND	17	10/16-10/20/95	5290016
Pyrene	ND	6.7	10/16-10/20/95	5290016
Dibenzo(a,h)anthracene	ND	1.0	10/16-10/20/95	5290016

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Benzo(e)pyrene	108	(36 - 144)
2-Fluorobiphenyl	85	(47 - 143)

NOTE:

ND (NONE DETECTED)

Quanterra
Environmental Services

LCS - DCS REPORT

QC BATCH: 5290016
LAB #: C5J170000-016 C
DILUTION FACTOR: 1.00

WO #:
PREPARATION DATE: 10/16/95
DATE ANALYZED: 10/20/95

- - - - - - - - - - - - - - - Polynuclear Aromatic Hydrocarbons - - - - - - - - - - - - - -

COMPOUND	LCS PERCENT RECOVERY	DCS PERCENT RECOVERY	Q/C LIMITS	RPD	RPD LIMITS
Naphthalene	114	105	(52-163)	9.0	20
Phenanthrene	90	89	(67-123)	1.5	20
Fluoranthene	95	91	(65-125)	4.4	20
Chrysene	100	100	(74-124)	0.12	20
Benzo(a)pyrene	85	91	(48-129)	7.1	20
Indeno(1,2,3-cd)pyrene	101	100	(63-133)	0.89	20

Calculations are performed before rounding to avoid round-off errors in calculated results

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-18, SS-1
Sample Type: Soil

CHES Lab #: 9510133-01A
Date Received: 10/10/95

Volatile Organics - System E
by EPA Method 8260 (ref. c)

Analysis Date: 10/18/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	910	ND	1,2-Dichloropropane	230	ND
Benzene	230	ND	cis-1,3-Dichloropropene	230	ND
Bromodichloromethane	230	ND	trans-1,3-Dichloropropene	230	ND
Bromoform	230	ND	Ethylbenzene	230	ND
Bromomethane	450	ND	2-Hexanone	230	ND
2-Butanone	910	ND	Methylene chloride	910	ND
Carbon disulfide	450	ND	4-Methyl-2-pentanone	230	ND
Carbon tetrachloride	230	ND	Methyl-t-butylether (MTBE)	450	ND
Chlorobenzene	230	ND	Styrene	230	ND
Chloroethane	450	ND	1,1,2,2-Tetrachloroethane	230	ND
2-Chloroethyl vinyl ether	450	ND	Tetrachloroethene	230	240
Chloroform	230	ND	Toluene	230	ND
Chloromethane	450	ND	1,1,1-Trichloroethane	230	ND
Dibromochloromethane	230	ND	1,1,2-Trichloroethane	230	ND
Dibromoethane (EDB)	230	ND	Trichloroethene	230	1,300
1,1-Dichloroethane	230	ND	Trichlorofluoromethane	230	ND
1,2-Dichloroethane	230	ND	Vinyl acetate	450	ND
1,1-Dichloroethene	230	ND	Vinyl chloride	450	ND
trans-1,2-Dichloroethene	230	ND	Total xylenes	230	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/kg

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	98 %	72-122%	70-121%
Toluene-d8:	110 %	86-123%	84-138%
p-BFB:	99 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-18, SS-1
Sample Type: Soil

CHES Lab #: 9510133-010
Date Received: 10/10/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	1,100	10/18/95	10/20/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil with additional single component peaks.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-18, SS-1
Sample Type: Soil

CHES Lab #: 9510133-01M
Date Received: 10/10/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	3	ND	10/18/95	10/19/95	3005/6010(c)
Arsenic - Total	5	ND	10/18/95	10/19/95	3050/6010(c)
Beryllium - Total	0.027	0.243	10/18/95	10/19/95	3050/6010(c)
Cadmium - Total	0.27	3.5	10/18/95	10/19/95	3050/6010(c)
Chromium - Total	0.81	24	10/18/95	10/19/95	3050/6010(c)
Copper - Total	0.81	23	10/18/95	10/19/95	3050/6010(c)
Lead - Total	3	560	10/18/95	10/20/95	3050/6010(c)
Mercury - Total	0.0603	0.0804	10/19/95	10/20/95	7471(c)
Nickel - Total	0.81	13	10/18/95	10/19/95	3050/6010(c)
Selenium - Total	5	ND	10/18/95	10/19/95	3050/6010(c)
Silver - Total	0.60	ND	10/18/95	10/19/95	3005/6010(c)
Thallium - Total	8	10	10/18/95	10/19/95	3050/6010(c)
Zinc - Total	1.1	68	10/18/95	10/19/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-18, SS-1
Sample Type: Soil

CHES Lab #: 9510133-01M
Date Received: 10/10/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	2.2	ND	mg/kg	10/17/95	9010(c)
Total Solids	--	95.3	%	10/11/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-18, SS-3
Sample Type: Soil

CHES Lab #: 9510133-02A
Date Received: 10/10/95

Volatile Organics - System D
by EPA Method 8260 (ref. c)

Analysis Date: 10/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	990	ND	1,2-Dichloropropane	250	ND
Benzene	250	ND	cis-1,3-Dichloropropene	250	ND
Bromodichloromethane	250	ND	trans-1,3-Dichloropropene	250	ND
Bromoform	250	ND	Ethylbenzene	250	ND
Bromomethane	490	ND	2-Hexanone	250	ND
2-Butanone	990	ND	Methylene chloride	990	ND
Carbon disulfide	490	ND	4-Methyl-2-pentanone	250	ND
Carbon tetrachloride	250	ND	Methyl-t-butylether (MTBE)	490	ND
Chlorobenzene	250	ND	Styrene	250	ND
Chloroethane	490	ND	1,1,2,2-Tetrachloroethane	250	ND
2-Chloroethyl vinyl ether	490	ND	Tetrachloroethene	250	300
Chloroform	250	ND	Toluene	250	ND
Chloromethane	490	ND	1,1,1-Trichloroethane	250	ND
Dibromochloromethane	250	ND	1,1,2-Trichloroethane	250	ND
Dibromoethane (EDB)	250	ND	Trichloroethene	250	680
1,1-Dichloroethane	250	ND	Trichlorofluoromethane	250	ND
1,2-Dichloroethane	250	ND	Vinyl acetate	490	ND
1,1-Dichloroethene	250	ND	Vinyl chloride	490	ND
trans-1,2-Dichloroethene	250	ND	Total xylenes	250	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/kg

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	91 %	72-122%	70-121%
Toluene-d8:	92 %	86-123%	84-138%
p-BFB:	95 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-18, SS-3
Sample Type: Soil

CHES Lab #: 9510133-020
Date Received: 10/10/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	86	10/18/95	10/19/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil with additional single component peaks.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 77%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-18, SS-3
Sample Type: Soil

CHES Lab #: 9510133-02M
Date Received: 10/10/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	3	ND	10/18/95	10/19/95	3005/6010(c)
Arsenic - Total	5	ND	10/18/95	10/19/95	3050/6010(c)
Beryllium - Total	0.023	0.203	10/18/95	10/19/95	3050/6010(c)
Cadmium - Total	0.23	0.23	10/18/95	10/19/95	3050/6010(c)
Chromium - Total	0.68	8.0	10/18/95	10/19/95	3050/6010(c)
Copper - Total	0.68	4.7	10/18/95	10/19/95	3050/6010(c)
Lead - Total	2	40	10/18/95	10/20/95	3050/6010(c)
Mercury - Total	0.0508	ND	10/19/95	10/20/95	7471(c)
Nickel - Total	0.68	ND	10/18/95	10/19/95	3050/6010(c)
Selenium - Total	5	ND	10/18/95	10/19/95	3050/6010(c)
Silver - Total	0.68	ND	10/18/95	10/19/95	3005/6010(c)
Thallium - Total	7	ND	10/18/95	10/19/95	3050/6010(c)
Zinc - Total	0.90	14	10/18/95	10/19/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-18, SS-3
Sample Type: Soil

CHES Lab #: 9510133-02M
Date Received: 10/10/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	2.4	ND	mg/kg	10/17/95	9010(c)
Total Solids	--	81.2	%	10/11/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-17, SS-2
Sample Type: Soil

CHES Lab #: 9510133-03A
Date Received: 10/10/95

Volatile Organics - System E
by EPA Method 8260 (ref. c)

Analysis Date: 10/18/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	980	ND	1,2-Dichloropropane	250	ND
Benzene	250	ND	cis-1,3-Dichloropropene	250	ND
Bromodichloromethane	250	ND	trans-1,3-Dichloropropene	250	ND
Bromoform	250	ND	Ethylbenzene	250	ND
Bromomethane	490	ND	2-Hexanone	250	ND
2-Butanone	980	ND	Methylene chloride	980	ND
Carbon disulfide	490	ND	4-Methyl-2-pentanone	250	ND
Carbon tetrachloride	250	ND	Methyl-t-butylether (MTBE)	490	ND
Chlorobenzene	250	ND	Styrene	250	ND
Chloroethane	490	ND	1,1,2,2-Tetrachloroethane	250	ND
2-Chloroethyl vinyl ether	490	ND	Tetrachloroethene	250	ND
Chloroform	250	ND	Toluene	250	ND
Chloromethane	490	ND	1,1,1-Trichloroethane	250	ND
Dibromochloromethane	250	ND	1,1,2-Trichloroethane	250	ND
Dibromoethane (EDB)	250	ND	Trichloroethene	250	ND
1,1-Dichloroethane	250	ND	Trichlorofluoromethane	250	ND
1,2-Dichloroethane	250	ND	Vinyl acetate	490	ND
1,1-Dichloroethene	250	ND	Vinyl chloride	490	ND
trans-1,2-Dichloroethene	250	ND	Total xylenes	250	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/kg
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	102 %	72-122%	70-121%
Toluene-d8:	111 %	86-123%	84-138%
p-BFB:	107 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-17, SS-2
Sample Type: Soil

CHES Lab #: 9510133-030
Date Received: 10/10/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	730	10/18/95	10/19/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbon mixture observed with an appearance characteristic of diesel fuel or #2 fuel oil and lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-17, SS-2
Sample Type: Soil

CHES Lab #: 9510133-03M
Date Received: 10/10/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	3	5	10/18/95	10/19/95	3005/6010(c)
Arsenic - Total	7	ND	10/18/95	10/19/95	3050/6010(c)
Beryllium - Total	0.033	0.460	10/18/95	10/19/95	3050/6010(c)
Cadmium - Total	0.33	0.43	10/18/95	10/19/95	3050/6010(c)
Chromium - Total	0.99	22	10/18/95	10/19/95	3050/6010(c)
Copper - Total	0.99	270	10/18/95	10/20/95	3050/6010(c)
Lead - Total	3	120	10/18/95	10/19/95	3050/6010(c)
Mercury - Total	0.0562	0.1592	10/19/95	10/20/95	7471(c)
Nickel - Total	0.99	13	10/18/95	10/19/95	3050/6010(c)
Selenium - Total	7	ND	10/18/95	10/19/95	3050/6010(c)
Silver - Total	0.62	ND	10/18/95	10/19/95	3005/6010(c)
Thallium - Total	10	ND	10/18/95	10/19/95	3050/6010(c)
Zinc - Total	1.3	120	10/18/95	10/19/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-17, SS-2
Sample Type: Soil

CHES Lab #: 9510133-03M
Date Received: 10/10/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	2.3	ND	mg/kg	10/17/95	9010(c)
Total Solids	--	90.9	%	10/11/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10,SS-2
Sample Type: Soil

CHES Lab #: 9510133-04A
Date Received: 10/10/95

Volatile Organics - System E
by EPA Method 8260 (ref. c)

Analysis Date: 10/20/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/kg
Additional compounds observed in sample.
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	119 %	72-122%	70-121%
Toluene-d8:	127 %	86-123%	84-138%
p-BFB:	109 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10,SS-2
Sample Type: Soil

CHES Lab #: 9510133-040
Date Received: 10/10/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	94	10/18/95	10/19/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 77%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10,SS-2
Sample Type: Soil

CHES Lab #: 9510133-04M
Date Received: 10/10/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	2	ND	10/18/95	10/19/95	3005/6010(c)
Arsenic - Total	4	ND	10/18/95	10/19/95	3050/6010(c)
Beryllium - Total	0.022	0.260	10/18/95	10/19/95	3050/6010(c)
Cadmium - Total	0.22	0.24	10/18/95	10/20/95	3050/6010(c)
Chromium - Total	0.65	17	10/18/95	10/19/95	3050/6010(c)
Copper - Total	0.65	23	10/18/95	10/19/95	3050/6010(c)
Lead - Total	2	10	10/18/95	10/19/95	3050/6010(c)
Mercury - Total	0.0595	ND	10/19/95	10/20/95	7471(c)
Nickel - Total	0.65	13	10/18/95	10/19/95	3050/6010(c)
Selenium - Total	4	ND	10/18/95	10/19/95	3050/6010(c)
Silver - Total	0.41	ND	10/18/95	10/19/95	3005/6010(c)
Thallium - Total	7	ND	10/18/95	10/19/95	3050/6010(c)
Zinc - Total	0.87	38	10/18/95	10/19/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10,SS-2
Sample Type: Soil

CHES Lab #: 9510133-04M
Date Received: 10/10/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	2.1	ND	mg/kg	10/19/95	9010(c)
Total Solids	--	89.0	%	10/11/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10,SS-4
Sample Type: Soil

CHES Lab #: 9510133-05A
Date Received: 10/10/95

Volatile Organics - System E
by EPA Method 8260 (ref. c)

Analysis Date: 10/20/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/kg
Additional compounds observed in sample.

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	114 %	72-122%	70-121%
Toluene-d8:	118 %	86-123%	84-138%
p-BFB:	103 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10,SS-4
Sample Type: Soil

CHES Lab #: 9510133-050
Date Received: 10/10/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	11	10/18/95	10/19/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 80%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10,SS-4
Sample Type: Soil

CHES Lab #: 9510133-05M
Date Received: 10/10/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	3	3	10/18/95	10/19/95	3005/6010(c)
Arsenic - Total	4	ND	10/18/95	10/19/95	3050/6010(c)
Beryllium - Total	0.022	0.246	10/18/95	10/19/95	3050/6010(c)
Cadmium - Total	0.22	0.31	10/18/95	10/20/95	3050/6010(c)
Chromium - Total	0.67	15	10/18/95	10/19/95	3050/6010(c)
Copper - Total	0.67	28	10/18/95	10/19/95	3050/6010(c)
Lead - Total	2	9	10/18/95	10/19/95	3050/6010(c)
Mercury - Total	0.0559	ND	10/19/95	10/20/95	7471(c)
Nickel - Total	0.67	14	10/18/95	10/19/95	3050/6010(c)
Selenium - Total	4	ND	10/18/95	10/19/95	3050/6010(c)
Silver - Total	0.57	ND	10/18/95	10/19/95	3005/6010(c)
Thallium - Total	7	ND	10/18/95	10/19/95	3050/6010(c)
Zinc - Total	0.90	37	10/18/95	10/19/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10,SS-4
Sample Type: Soil

CHES Lab #: 9510133-05M
Date Received: 10/10/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	1.8	ND	mg/kg	10/18/95	9010(c)
Total Solids	--	92.3	%	10/11/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10, SS-6
Sample Type: Soil

CHES Lab #: 9510133-06L
Date Received: 10/10/95

SIEVE ANALYSIS

by ASTM Method Mod. D422

Analysis Date: 10/20/95

SIEVE NUMBER	OPENING SIZE in MM	WEIGHT %
--	9.5	5.1
4	4.75	13.5
10	2.00	21.1
20	0.850	16.7
40	0.425	12.8
60	0.250	9.1
100	0.150	5.7
200	0.075	5.9
Bottom Tray	<0.075	10.1

QUALITY CONTROL

REPORT OF ANALYSIS

CHES LAB. NO. 9510133

The attached quality control data were generated during the analysis of these samples. All results have been generated in accordance with the procedures as stated in the Clean Harbors Environmental Services, Inc. Quality Assurance/Quality Control Manual and pertinent standard operating procedures, which are available for review. The attached has been submitted for informational purposes only.

CleanHarbors

Volatile Organics Blank - System E
by EPA Method 624 (ref. f)

Analysis Date: 10/20/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-Pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4: 92%	72-122%	70-121%
Toluene-d8: 99%	86-123%	84-138%
p-BFB: 86%	83-123%	59-113%

CleanHarbors

Volatile Organics Blank - System E
by EPA Method 624 (ref. f)

Analysis Date: 10/18/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-Pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4: 116%	72-122%	70-121%
Toluene-d8: 119%	86-123%	84-138%
p-BFB: 105%	83-123%	59-113%

CleanHarbors

Volatile Organics Blank - System D
by EPA Method 624 (ref. f)

Analysis Date: 10/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-Pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4: 94%	72-122%	70-121%
Toluene-d8: 95%	86-123%	84-138%
p-BFB: 91%	83-123%	59-113%

Parameter	PQL*	Result	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	ND	10/18/95	10/19/95	**

Notes:

ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.
* = mg/kg
** = U.S. EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual; November 1990.
Hydrocarbon quantitative range:

C10 - C38

Hydrocarbon qualitative identification:

No significant hydrocarbon observed.

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 87 %	50 - 150%

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9510133

BLANK ANALYSIS

METALS

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	0.1	ND	10/18/95	10/19/95	3005/6010(c)
Arsenic - Total	0.2	ND	10/18/95	10/19/95	3050/6010(c)
Beryllium - Total	0.001	ND	10/18/95	10/19/95	3050/6010(c)
Cadmium - Total	0.01	ND	10/18/95	10/19/95	3050/6010(c)
Chromium - Total	0.03	ND	10/18/95	10/19/95	3050/6010(c)
Copper - Total	0.03	ND	10/18/95	10/19/95	3050/6010(c)
Lead - Total	0.1	ND	10/18/95	10/20/95	3050/6010(c)
Mercury - Total	0.0002	ND	10/19/95	10/20/95	7471(c)
Nickel - Total	0.03	ND	10/18/95	10/19/95	3050/6010(c)
Selenium - Total	0.2	ND	10/18/95	10/19/95	3050/6010(c)
Silver - Total	0.02	ND	10/18/95	10/19/95	3005/6010(c)
Thallium - Total	0.3	ND	10/18/95	10/19/95	3050/6010(c)
Zinc - Total	0.04	ND	10/18/95	10/19/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9510133

BLANK ANALYSIS

METALS

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	0.1	ND	10/18/95	10/19/95	3005/6010(c)
Arsenic - Total	0.2	ND	10/18/95	10/19/95	3050/6010(c)
Beryllium - Total	0.001	ND	10/18/95	10/19/95	3050/6010(c)
Cadmium - Total	0.01	ND	10/18/95	10/19/95	3050/6010(c)
Chromium - Total	0.03	ND	10/18/95	10/19/95	3050/6010(c)
Copper - Total	0.03	ND	10/18/95	10/19/95	3050/6010(c)
Lead - Total	0.1	ND	10/18/95	10/20/95	3050/6010(c)
Mercury - Total	0.0002	ND	10/19/95	10/20/95	7471(c)
Nickel - Total	0.03	ND	10/18/95	10/19/95	3050/6010(c)
Selenium - Total	0.2	ND	10/18/95	10/19/95	3050/6010(c)
Silver - Total	0.02	ND	10/18/95	10/19/95	3005/6010(c)
Thallium - Total	0.3	ND	10/18/95	10/19/95	3050/6010(c)
Zinc - Total	0.04	ND	10/18/95	10/19/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9510133

BLANK ANALYSIS

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	10/17/95	9010(c)
Cyanide, Total	0.02	ND	mg/l	10/19/95	9010(c)
Cyanide, Total	0.02	ND	mg/l	10/18/95	9010(c)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight

CleanHarbors

JM 10/11

Clean Harbors Analytical Services, Inc., 325 Wood Rd., Braintree, MA 02184 | CHAIN OF CUSTODY RECORD | Sample Custodian — (617) 849-1800 | Page of

Client: CHES Project Name: MURPHYS WASTE OIL SERVICE Work Order/P.O. #: EN-170 Date: 10/9/95

Report To: JAY MCCREERY Address: 12 MERCER RD, NATICK, MA Phone #: X6399

Date Samples Collected: 10/9/95 by: P. NICENWAGER Date Samples Received:

Airbill/Bill of Lading? Y N NOTE: Samples received unpreserved will be preserved upon arrival at CHAS. Samples were: Preserved Unpreserved

Sample I.D.	Sampling Information: Date	Time	Station Location	Sample Matrix	VOA 8240	TPH GC FID	PAHs by HPLC	13 P.P. TOT. MET.	TOT. CYANIDE		SEVE ANALYSIS		# of con.	CHAS Sample # PS 10/10 9510133
B-18	10/9		SS-1	SOIL	1	1	1	1	1				2	01A, M, O, Q
B-18	↓		SS-3	↓	1	1	1	1	1				2	02A, M, O, Q
B-17	↓		SS-2	↓	1	1	1	1	1				2	03A, M, O, Q
MW-10	↓		SS-2	↓	1	1	1	1	1				2	04A, M, O, Q
MW-10	↓		SS-4	↓	1	1	1	1	1				2	05A, M, O, Q
MW-10	↓		SS-6	↓							1		1	06L

VOA Vial								
Glass Bottle								
Plastic Bottle								
Pres.								
Volume								

Relinquished by: [signature] Date: 10/9/95 Time: 1715

Received by: [signature] Date: 10-9-95 Time: 1715

Relinquished by: [signature] Date: 10-9-95 Time: 1810

Received by: [signature] Date: 10/9/95 Time: 6:10PM

Preservation Key: A — Acidified with ____ B — Filtered C — Sample chilled, D— NaOH, E — NaThiosulfate, W — Sample Ambient, F — Other

REMARKS/COMMENTS: (Sample storage, nonstandard bottles, cautions, special instructions)

Run VOA first then use this container if additional sample volume needed for other parameters.

Standard laboratory turnaround time is 2 weeks from date of receipt. Accelerated turnaround may be assessed a surcharge.
Accelerated turnaround requested: ____
Confirmed by: ____ Surcharge: ____

Location of samples: B4, B10B2, Quonterra

Turnaround: 24 Hrs. 48 Hrs. 1 Week 2 Weeks Other: ____

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CleanHarbors
ENVIRONMENTAL SERVICES, INC.
325 WOOD ROAD • BRAINTREE, MA 02184
(617) 849-1800

REPORT OF ANALYSIS

Clean Harbors Environmental Services, Inc.
12 Mercer Road
Natick, MA 01760

Project: MURPHY'S WASTE OIL SERVICE
P.O. #: EN170

Date Received: 10/27/95
CHES Lab #: 9510403

Attn: Mr. Jay McCreery

Enclosed are the results for the sample(s) delivered to our laboratory (DEP Laboratory ID# M-MA032) on the date indicated above.

The methods listed represent those methodologies which were used to develop the best analytical techniques. Analytical results and quality assurance protocols are based on these guidelines. These meet the requirements for the reporting of results under the RCRA, NPDES and Safe Drinking Water Act regulations.

Clean Harbors Environmental Services has an active program of quality assurance and quality control. The program closely follows the guidance provided in the EPA Contract Laboratory Program Statement of Work (organic and inorganic), the guidance provided in SW-846, and many other pertinent documents.

Should you have any questions concerning this work, please do not hesitate to contact me.

The information contained in this report is, to the best of my knowledge, accurate and complete.

Per/Date: Michael J. Murray 11/22/95

Michael J. Murray
Laboratory Manager

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-19, SS-4
Sample Type: Soil

CHES Lab #: 9510403-01A
Date Received: 10/27/95

Volatile Organics - System E
by EPA Method 8260 (ref. c)

Analysis Date: 11/08/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	4000	ND	1,2-Dichloropropane	990	ND
Benzene	990	ND	cis-1,3-Dichloropropene	990	ND
Bromodichloromethane	990	ND	trans-1,3-Dichloropropene	990	ND
Bromoform	990	ND	Ethylbenzene	990	ND
Bromomethane	2000	ND	2-Hexanone	990	ND
2-Butanone	4000	ND	Methylene chloride	4000	ND
Carbon disulfide	2000	ND	4-Methyl-2-pentanone	990	ND
Carbon tetrachloride	990	ND	Methyl-t-butylether (MTBE)	2000	ND
Chlorobenzene	990	ND	Styrene	990	ND
Chloroethane	2000	ND	1,1,2,2-Tetrachloroethane	990	ND
2-Chloroethyl vinyl ether	2000	ND	Tetrachloroethene	990	ND
Chloroform	990	ND	Toluene	990	ND
Chloromethane	2000	ND	1,1,1-Trichloroethane	990	ND
Dibromochloromethane	990	ND	1,1,2-Trichloroethane	990	ND
Dibromoethane (EDB)	990	ND	Trichloroethene	990	ND
1,1-Dichloroethane	990	ND	Trichlorofluoromethane	990	ND
1,2-Dichloroethane	990	ND	Vinyl acetate	2000	ND
1,1-Dichloroethene	990	ND	Vinyl chloride	2000	ND
trans-1,2-Dichloroethene	990	ND	Total xylenes	990	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/kg

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	84 %	72-122%	70-121%
Toluene-d8:	93 %	86-123%	84-138%
p-BFB:	85 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-19, SS-4
Sample Type: Soil

CHES Lab #: 9510403-010
Date Received: 10/27/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	1,700	11/06/95	11/07/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-19, SS-4
Sample Type: Soil

CHES Lab #: 9510403-01M
Date Received: 10/27/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	3	ND	10/30/95	10/31/95	3005/6010(c)
Arsenic - Total	7	ND	10/30/95	10/31/95	3050/6010(c)
Beryllium - Total	0.036	ND	10/30/95	10/31/95	3050/6010(c)
Cadmium - Total	0.36	ND	10/30/95	10/31/95	3050/6010(c)
Chromium - Total	1.1	33	10/30/95	10/31/95	3050/6010(c)
Copper - Total	1.1	34	10/30/95	10/31/95	3050/6010(c)
Lead - Total	4	240	10/30/95	10/31/95	3050/6010(c)
Mercury - Total	0.0550	0.0565	11/03/95	11/08/95	7471(c)
Nickel - Total	1.1	2.4	10/30/95	10/31/95	3050/6010(c)
Selenium - Total	7	ND	10/30/95	10/31/95	3050/6010(c)
Silver - Total	0.59	ND	10/30/95	10/31/95	3005/6010(c)
Thallium - Total	10	ND	10/30/95	10/31/95	3050/6010(c)
Zinc - Total	1.4	97	10/30/95	10/31/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-19, SS-4
Sample Type: Soil

CHES Lab #: 9510403-01M
Date Received: 10/27/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	1.9	ND	mg/kg	10/31/95	9010(c)
Total Solids	--	83.9	%	10/30/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-20, SS-4
Sample Type: Soil

CHES Lab #: 9510403-02A
Date Received: 10/27/95

Volatile Organics - System E
by EPA Method 8260 (ref. c)

Analysis Date: 11/10/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	15	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/kg

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	96 %	72-122%	70-121%
Toluene-d8:	97 %	86-123%	84-138%
p-BFB:	80 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-20, SS-4
Sample Type: Soil

CHES Lab #: 9510403-020
Date Received: 10/27/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	450	11/06/95	11/08/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-20, SS-4
Sample Type: Soil

CHES Lab #: 9510403-02M
Date Received: 10/27/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	3	ND	10/30/95	10/31/95	3005/6010(c)
Arsenic - Total	6	ND	10/30/95	10/31/95	3050/6010(c)
Beryllium - Total	0.031	ND	10/30/95	10/31/95	3050/6010(c)
Cadmium - Total	0.31	ND	10/30/95	10/31/95	3050/6010(c)
Chromium - Total	0.93	14	10/30/95	10/31/95	3050/6010(c)
Copper - Total	0.93	28	10/30/95	10/31/95	3050/6010(c)
Lead - Total	3	260	10/30/95	10/31/95	3050/6010(c)
Mercury - Total	0.0601	ND	11/03/95	11/08/95	7471(c)
Nickel - Total	0.93	5.6	10/30/95	10/31/95	3050/6010(c)
Selenium - Total	6	ND	10/30/95	10/31/95	3050/6010(c)
Silver - Total	0.62	ND	10/30/95	10/31/95	3005/6010(c)
Thallium - Total	9	ND	10/30/95	10/31/95	3050/6010(c)
Zinc - Total	1.2	55	10/30/95	10/31/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: B-20, SS-4
Sample Type: Soil

CHES Lab #: 9510403-02M
Date Received: 10/27/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	1.9	ND	mg/kg	10/31/95	9010(c)
Total Solids	--	91.0	%	10/30/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: COMPOSITE OF MW-8
Sample Type: Soil

CHES Lab #: 9510403-07L
Date Received: 10/27/95

SIEVE ANALYSIS

by ASTM Method Mod. D422

Analysis Date: 11/09/95

SIEVE NUMBER	OPENING SIZE in MM	WEIGHT %
--	9.5	30.0
4	4.75	15.7
10	2.00	11.7
20	0.850	13.2
40	0.425	10.5
60	0.250	5.9
100	0.150	3.8
200	0.075	4.2
Bottom Tray	<0.075	4.9

QUALITY CONTROL

REPORT OF ANALYSIS

CHES LAB. NO. 9510403

The attached quality control data were generated during the analysis of these samples. All results have been generated in accordance with the procedures as stated in the Clean Harbors Environmental Services, Inc. Quality Assurance/Quality Control Manual and pertinent standard operating procedures, which are available for review. The attached has been submitted for informational purposes only.

Volatile Organics Blank - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/08/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-Pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 74%
Toluene-d8: 95%
p-BFB: 83%

Acceptance Criteria:

Water	Soil
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%

Volatile Organics Blank - System E
by EPA Method 8260 (ref. c)

Analysis Date: 11/09/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-Pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	15	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4: 106%	72-122%	70-121%
Toluene-d8: 132%	86-123%	84-138%
p-BFB: 96%	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9510403

BLANK ANALYSIS

METALS

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Antimony - Total	0.1	ND	10/30/95	10/31/95	3005/6010(c)
Arsenic - Total	0.2	ND	10/30/95	10/31/95	3050/6010(c)
Beryllium - Total	0.001	ND	10/30/95	10/31/95	3050/6010(c)
Cadmium - Total	0.01	ND	10/30/95	10/31/95	3050/6010(c)
Chromium - Total	0.03	ND	10/30/95	10/31/95	3050/6010(c)
Copper - Total	0.03	ND	10/30/95	10/31/95	3050/6010(c)
Lead - Total	0.1	ND	10/30/95	10/31/95	3050/6010(c)
Mercury - Total	0.0002	ND	11/03/95	11/08/95	7471(c)
Nickel - Total	0.03	ND	10/30/95	10/31/95	3050/6010(c)
Selenium - Total	0.2	ND	10/30/95	10/31/95	3050/6010(c)
Silver - Total	0.02	ND	10/30/95	10/31/95	3005/6010(c)
Thallium - Total	0.3	ND	10/30/95	10/31/95	3050/6010(c)
Zinc - Total	0.04	ND	10/30/95	10/31/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9510403

BLANK ANALYSIS

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	10/31/95	9010(c)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight

Quanterra
Environmental Services

CASE NARRATIVE

LABORATORY ID NUMBER: B5K010143

ORGANICS

The reporting limits for Method 8310 PAH on sample Id numbers B5K010143-001 and 002 were elevated due to insufficient sample volume.

EXECUTIVE SUMMARY - Detection Highlights

Quanterra Environmental Services

B5K010143

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD
B14,SS-4 951043-01Q 10/27/95				
Total Residue as Percent Solids	85.6	1.0	%	MCAWW 160.3
B20,SS-11 951043-02Q 10/27/95				
Fluoranthene	660	440	ug/kg	SW846 8310
Pyrene	480	440	ug/kg	SW846 8310
Total Residue as Percent Solids	91.5	1.0	%	MCAWW 160.3

ANALYTICAL METHODS SUMMARY

B5K010143

Quanterra Environmental Services

Parameters	Methods
Polynuclear Aromatic Hydrocarbons by HPLC	SW846 8310
Total Residue as Percent Solids	MCAWW 160.3 MODIFIED

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and Final Update I (7/92).

Quanterra Environmental Services

EXECUTIVE SUMMARY - Detection Highlights

B5K010143

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD
B19,SS-4 10/27/95				
Total Residue as Percent Solids	85.6	1.0	%	MCAWW 160.3
B20,SS-11 10/27/95				
Fluoranthene	660	440	ug/kg	SW846 8310
Pyrene	480	440	ug/kg	SW846 8310
Total Residue as Percent Solids	91.5	1.0	%	MCAWW 160.3

Quanterra Environmental Services

SAMPLE SUMMARY

The analytical results of the samples listed below are presented on the following pages.

WO #	LABORATORY ID	SAMPLE IDENTIFICATION	DATE/TIME SAMPLED
C1NX5	B5K010143-001	B19,SS-4	10/27/95
C1NX9	B5K010143-002	B20,SS-11	10/27/95

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

B19,SS-4

WO #: C1NX5101
LAB #: B5K010143-001
MATRIX: SOLID
DILUTION FACTOR: 10.00

DATE SAMPLED: 10/27/95
TIME SAMPLED:
DATE RECEIVED: 11/01/95
% MOISTURE: 14.4

- - - - - - - - - - - - - - - - - - REQUESTED PARAMETERS - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Acenaphthene	ND	4,700	SW846 8310	11/07-11/10/95	5311157
Acenaphthylene	ND	4,700	SW846 8310	11/07-11/10/95	5311157
Anthracene	ND	4,700	SW846 8310	11/07-11/10/95	5311157
Benzo(a)anthracene	ND	470	SW846 8310	11/07-11/10/95	5311157
Benzo(a)pyrene	ND	470	SW846 8310	11/07-11/10/95	5311157
Benzo(b)fluoranthene	ND	470	SW846 8310	11/07-11/10/95	5311157
Benzo(ghi)perylene	ND	470	SW846 8310	11/07-11/10/95	5311157
Benzo(k)fluoranthene	ND	470	SW846 8310	11/07-11/10/95	5311157
Chrysene	ND	470	SW846 8310	11/07-11/10/95	5311157
Dibenz(a,h)anthracene	ND	470	SW846 8310	11/07-11/10/95	5311157
Fluoranthene	ND	470	SW846 8310	11/07-11/10/95	5311157
Fluorene	ND	4,700	SW846 8310	11/07-11/10/95	5311157
Indeno(1,2,3-cd)pyrene	ND	470	SW846 8310	11/07-11/10/95	5311157
Naphthalene	ND	4,700	SW846 8310	11/07-11/10/95	5311157
Phenanthrene	ND	4,700	SW846 8310	11/07-11/10/95	5311157
Pyrene	ND	470	SW846 8310	11/07-11/10/95	5311157

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Carbazole	DIL	(30 - 130)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT
DIL (DILUTED OUT)
* ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE.

CleanHarbors

CLEAN HARBORS ANALYTICAL

B20, SS-4

WO #: C1NX9101
LAB #: B5K010143-002
MATRIX: SOLID
DILUTION FACTOR: 10.00

DATE SAMPLED: 10/27/95
TIME SAMPLED:
DATE RECEIVED: 11/01/95
% MOISTURE: 8.5

- - - - - - - - - - - - - - - REQUESTED PARAMETERS - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Acenaphthene	ND	4,400	SW846 8310	11/07-11/10/95	5311157
Acenaphthylene	ND	4,400	SW846-8310	11/07-11/10/95	5311157
Anthracene	ND	4,400	SW846 8310	11/07-11/10/95	5311157
Benzo(a)anthracene	ND	440	SW846 8310	11/07-11/10/95	5311157
Benzo(a)pyrene	ND	440	SW846 8310	11/07-11/10/95	5311157
Benzo(b)fluoranthene	ND	440	SW846 8310	11/07-11/10/95	5311157
Benzo(ghi)perylene	ND	440	SW846 8310	11/07-11/10/95	5311157
Benzo(k)fluoranthene	ND	440	SW846 8310	11/07-11/10/95	5311157
Chrysene	ND	440	SW846 8310	11/07-11/10/95	5311157
Dibenz(a,h)anthracene	ND	440	SW846 8310	11/07-11/10/95	5311157
Fluoranthene	**660**	**440**	**SW846 8310**	**11/07-11/10/95**	**5311157**
Fluorene	ND	4,400	SW846 8310	11/07-11/10/95	5311157
Indeno(1,2,3-cd)pyrene	ND	440	SW846 8310	11/07-11/10/95	5311157
Naphthalene	ND	4,400	SW846 8310	11/07-11/10/95	5311157
Phenanthrene	ND	4,400	SW846 8310	11/07-11/10/95	5311157
Pyrene	**480**	**440**	**SW846 8310**	**11/07-11/10/95**	**5311157**

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Carbazole	DIL	(30 - 130)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT
DIL (DILUTED OUT)
Analysis performed by Quanterra Environmental Services, Tampa, FL

Quanterra
Environmental Services

Quality Control Summary

Quanterra QC Program Summary

Method Blanks

Laboratory Control Samples

Matrix Spike/Matrix Spike Duplicates

Chain-of-Custody

Quanterra
Environmental Services

Quanterra Quality Control Program Summary

Quanterra Environmental Services considers continuous analytical method performance evaluations to be an integral portion of the data package, and routinely includes the pertinent QA/QC data associated with analytical results. Brief discussions of the various QA/QC procedures utilized to measure acceptable method and matrix performance follow. Further documentation of specific policies and procedures in use are available, upon request, from the Quanterra Quality Control Department.

The program described below provides Quanterra's interpretation of QC requirements described in SW-846, 3rd edition -Final Update II. Additional interpretations specific to other aspects of methods performed, such as instrument calibration and bench procedures, are described in program-specific documents (e.g. US Corps of Engineers, AFCEE, etc.) and associated method standard operating procedures. Where explicit program requirements or project requirements exist, certain elements of the Quanterra QC Program may be superseded by these requirements.

Elements of the Quanterra QC Program

Where other clear regulatory guidance, contract specifications, or client requirements are not available, the Quanterra QC Program provides guidance for Batch QC requirements. The Quality Control Batch is a set of up to 20 field samples of similar matrix, which are processed together under the same conditions, within the same time frame. Included in each Quality Control Batch is a Method Blank, Laboratory Control Sample, and Matrix Spike Duplicate. For methods that require independent sample preparation prior to analysis, the QC Batch is defined at the preparation stage. For methods that do not require independent sample preparation, the QC Batch is defined at the instrument. The QC Batch Number is provided on each result page in association with the parameter(s) presented, and may be used to cross-reference sample results with the associated QC data.

Method Blank Evaluations

Laboratory analytical method blanks are systematically prepared and analyzed in order to continuously evaluate the system interference and background contamination levels associated with each applicable analytical method. Method blanks include all aspects of actual laboratory procedures involving sample preparation and analysis, substituting analyte-free water or solid for the actual sample. Under normal circumstances, the Method Blank should not exhibit analytes of interest above the reported detection limit. Due to the presence of some analytes in a typical laboratory setting, the following common laboratory contaminants are exceptions to this rule, provided they are not present in the method blank at greater than five times the reporting limit.

Volatiles	Semi-Volatiles	Metals
Methylene chloride	Dimethyl phthalate	Calcium
Toluene	Diethyl phthalate	Magnesium
2-Butanone	Di-n-butyl-phthalate	Sodium
Acetone	Butyl benzyl phthalate	
	Bis (2-ethylhexyl) phthalate	

A method blank is performed with each analytical batch. A minimum of 5% of all laboratory analyses are method blanks.

Laboratory Control Sample (LCS) Evaluations

Known concentrations of designated matrix spike (target analyte) compounds are added to a method blank prior to extraction and analysis. Percent recovery determinations of individual target analytes in the LCS demonstrate the laboratory's method performance for the QC Batch relative to these target analytes (or other individual components represented by a subset of control analytes). Percent recovery data is displayed alongside acceptance criteria, that is typically derived from laboratory historical data. Failure of a Laboratory Control Sample to meet established recovery criteria for control analytes is cause for corrective actions to occur, which typically includes re-extraction and re-analysis of all samples associated with the QC Batch. An LCS is performed with each analytical batch. A minimum of 5% of all laboratory analyses are laboratory control samples.

Quanterra Quality Control Program Summary (continued)

Surrogate Spike Recovery Evaluations

For GC and GC/MS analyses, known concentrations of designated surrogate spikes, consisting of a number of similar, non-method compounds or method compound analogues, are added to sample fractions prior to sample extraction and analysis. The percent recovery determinations calculated from the subsequent analysis is one indication of the overall method efficiency for the individual sample. The surrogate spike recovery data is displayed alongside acceptance limits at the bottom of each applicable analytical result report page. Where sufficient laboratory-generated data does not yet exist to determine appropriate control limits, advisory limits may be enacted until sufficient data is collected to allow implementation of control limits.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Evaluations

In conjunction with the analysis of a client-provided field sample, a known concentration of designated matrix spike compounds (target analytes) are added to two aliquots of the actual sample. Percent recovery determinations are calculated from both spiked aliquots, using target analyte concentrations already present in the actual sample as a baseline. The percent recovery determinations indicate the accuracy of the method specific to the target analytes (or other individual components represented by a subset of control analytes) in the individual sample matrix. Comparison of the percent recoveries in the two spiked aliquots yields a relative percent difference (RPD). Percent recovery and relative percent difference data is displayed alongside historical criteria, that may be used to judge individual sample matrix effects for specific analytes. MS/MSD data is evaluated by the laboratory with respect to the individual sample matrix. In cases where MS/MSD data indicate sample method performance outside of historical criteria, the laboratory control sample results are referenced to ensure acceptable method performance by the laboratory for the sample batch. For analyses which are inappropriately suited for matrix spikes (e.g. pH), non-spiked duplicate analyses are performed to generate precision data. Matrix spike duplicates are typically performed on at least one sample within each analytical batch. A minimum of 10% of all laboratory analyses are matrix spikes or duplicates.

Corrective Action Evaluations

The goal of the Quanterra Quality Control Program is to generate data that demonstrates process control, and allows for client usability of data. Where the analytical process is demonstrated to vary from established criteria, or client requirements have not been met, data evaluation resulting in corrective action may be required. Corrective action may include re-preparation and/or reanalysis of field samples and QC samples. Where appropriate or necessary to allow proper interpretation of results presented in the final report, details of corrective actions taken during the laboratory processing of samples are presented as a case narrative at the front of the report. Alternatively, routine corrective action, such as reanalysis, may be footnoted on individual sample result pages.

Analytical Result Qualifier Flags

Where applicable , data qualifiers may be appended to analytical results in order to allow for proper interpretation of the result presented. Typically, the presence of data qualifier flag on an analytical result page is accompanied by a footnote explaining the qualifier. Common data qualifiers include, but are no limited to the following:

J -indicates an estimated concentration is reported due to method limitations such as matrix interference or instrumental detection limitations.

B -indicates the presence of a particular analyte in the associated laboratory method blank.

DIL -indicates percent recovery determination was not possible due to dilution associated with the sample matrix conditions or high target analyte concentrations.

X -indicates internal standards used for a GC or GC/MS analysis did not meet established criteria, typically due to a sample matrix effect.

E -indicates an estimated concentration is reported due to analyte response beyond the established instrumental calibration range, typically due to presence of a wide range of target analyte concentrations.

Quanterra Environmental Services

METHOD BLANK REPORT

LAB #: B5K070000-157

- - - - - - - - - - - - - POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC - - - - - - - - - - - - -

PARAMETER	RESULT (mg/kg)	REPORTING LIMIT	PREPARATION - ANALYSIS DATE	QC BATCH
Acenaphthene	ND	400	11/07-11/09/95	5311157
Acenaphthylene	ND	400	11/07-11/09/95	5311157
Anthracene	ND	400	11/07-11/09/95	5311157
Benzo(a)anthracene	ND	40	11/07-11/09/95	5311157
Benzo(b)fluoranthene	ND	40	11/07-11/09/95	5311157
Benzo(k)fluoranthene	ND	40	11/07-11/09/95	5311157
Benzo(ghi)perylene	ND	40	11/07-11/09/95	5311157
Benzo(a)pyrene	ND	40	11/07-11/09/95	5311157
Chrysene	ND	40	11/07-11/09/95	5311157
Dibenz(a,h)anthracene	ND	40	11/07-11/09/95	5311157
Fluoranthene	ND	40	11/07-11/09/95	5311157
Fluorene	ND	400	11/07-11/09/95	5311157
Indeno(1,2,3-cd)pyrene	ND	40	11/07-11/09/95	5311157
Naphthalene	ND	400	11/07-11/09/95	5311157
Phenanthrene	ND	400	11/07-11/09/95	5311157
Pyrene	ND	40	11/07-11/09/95	5311157

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Carbazole	101	(30 - 130)

NOTE:

ND (NONE DETECTED)

Quanterra Environmental Services

CHECK SAMPLE REPORT

QC BATCH: 5311157
LAB #: B5K070000-157 C

PREPARATION DATE: 11/07/95
DATE ANALYZED: 11/09/95

- - - - - - - - - - - - - Polynuclear Aromatic Hydrocarbons by HPLC - - - - - - - - - - - -

COMPOUND	SPIKE PERCENT RECOVERY	Q/C LIMITS
Naphthalene	86	(10-122)
Acenaphthylene	75	(10-139)
Acenaphthene	81	(10-124)
Fluorene	82	(10-142)
Phenanthrene	88	(10-155)
Anthracene	88	(10-126)
Fluoranthene	89	(14-123)
Pyrene	92	(10-140)
Benzo(a)anthracene	89	(12-135)
Chrysene	83	(10-199)
Benzo(b)fluoranthene	91	(10-150)
Benzo(k)fluoranthene	90	(10-159)
Benzo(a)pyrene	83	(10-128)
Dibenzo(a,h)anthracene	86	(10-110)
Benzo(ghi)perylene	89	(10-116)
Indeno(1,2,3-cd)pyrene	87	(10-116)

NOTE:

Quanterra Environmental Services, Tampa
Sample Shipper Evaluation and Receipt Form

Client: Clean Harbors.

Project Name/ Number Soil Sample.

Samples Received by:

V. Fernandez
Signature

Date Received 11/7/95

Sample Evaluation Form by:

Earl O. Echols
Signature

Type of shipping containers samples received in:

Quanterra cooler: _____ Client Cooler _____
Quanterra shipper: _____ Box ✓ Other _____

Any "NO" responses or discrepancies should be explained in the "Comments" section.

	Yes	No
1) Were custody seals on shipping container(s) intact?		✓
2) Were custody papers properly included with samples?	✓	
3) Were custody papers properly filled out (ink, signed, match labels)?	✓	
4) Did all bottles arrive in good condition (unbroken)?	✓	
5) Were all bottle labels complete (sample #, date, signed, analysis preservatives)?	✓	
6) Were correct bottles used for the tests indicated?	✓	
7) Were proper sample preservation techniques indicated?	✓	
8) Were samples received within adequate holding times?	✓	
9) Were all VOA bottles checked for the presence of air bubbles? (If air bubbles were found, indicate in comment section)	NoVOA	
10) Were samples in direct contact with wet ice? NOTE TEMPERATURE BELOW	Blue ice	
11) Were samples accepted into the laboratory? (If "No", see comments)	✓	

Cooler # _____ Temp 10 C Cooler # _____ Temp _____ C

Comments _____

m:/forms/shipeval.xls

CleanHarbors

Method References

(a) "Methods for Chemical Analysis of Water and Wastes," Publication EPA-600/4-79-020, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, 1979, revised March 1983.

(b) "Standard Methods for the Examination of Water and Wastewater." 18th ed., American Public Health Association, American Water Works Association, Water Pollution Control Federation, Washington, D.C., 1992.

(c) "Test Methods for Evaluating Solid Waste: Physical/Chemical methods," 3rd ed., U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, D.C., November 1986, updated July 1992 and September 1994.

(d) "The Determination of Polychlorinated Biphenyls in Transformer Fluid and Waste Oils," Publication EPA-600/4-81-045, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, September 1982.

(e) "Hazardous Waste Management System; Identification and Listing of Hazardous Waste; Toxicity Characteristic Revisions; Final Rule," Federal Register, Vol. 55, No. 126, Friday, June 29, 1990, and revision in Federal Register, Vol. 57, No. 227, Tuesday, November 24, 1992.

(f) "Guidelines Establishing Test Procedures for Analysis of Pollutants," Code of Federal Regulations, Part 136 Appendix A and Appendix B, July 1, 1993.

(g) "Methods for the Determination of Organic Compounds in Drinking Water," U.S. Environmental Protection Agency, Office of Research and Development, Washington, D.C., December 1988, revised July 1991.

(h) "The Determination of Inorganic Anions in Water by Ion Chromatography - Method 300.0," Publication EPA-600/4-84-017, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, March 1984.

(i) "Hach Water Analysis Handbook," Hach Chemical Company, Loveland, CO, 1992.

(j) "USEPA-CLP Statement of Work for Organic Analysis," Publication OLM01.0 (including revisions, U.S. Environmental Protection Agency, Contract Laboratory Program, August 1991.

(k) "Annual Book of Standards," Section 11: Water and Environmental Technology, Vols. 11.01-11.04, American Society for Testing Materials, Philadelphia, 1989 & 1991.

(l) "Annual Book of Standards," Section 5: Petroleum Products and Lubricants, Vols. 5.01, American Society for Testing Materials, Philadelphia, 1993.

(m) "Annual Book of Standards," Section 4: Construction, Vol. 4.08, American Society for Testing Materials, Philadelphia, 1993.

(n) "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods," 2nd ed., U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, D.C., July 1982, updated April 1984.

(o) "Annual Book of Standards," Section 15: Engine Coolants; Halogenated Organic Solvents, Vol. 15.05,American Society for Testing Materials, Philadelphia, 1995.

[REF-09/21/95]

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Clean Harbors Analytical Services, Inc., 325 Wood Rd., Braintree, MA 02184 | CHAIN OF CUSTODY RECORD | Sample Custodian — (617) 849-1800 | Page 1 of 1

Client: REM. TECH. Project Name: MURPHY'S WASTE OIL SERVICE Work Order/P.O. #: EN-170 Date: 10/27/95

Report To: JAY McCREERY Address: 12 MERCER ROAD, NATICK, MA Phone #: x6399

Date Samples Collected: 10/27/95 by: P. NICKLWONGEN Date Samples Received:

Airbill/Bill of Lading? Y (N) NOTE: Samples received unpreserved will be preserved upon arrival at CHAS. Samples were: Preserved (Unpreserved)

Sample I.D.	Sampling Information: Date	Time	Station Location	Sample Matrix	VOA 8240	TPH GC/FID	PAH's BY HPLC	13 P.P. TOT. MET.	TOT. CYANIDE		SIEVE ANALYSIS		# of con.	CHAS Sample # 9510403 (PS 10/27)
B-19	10/27		SS-4	SOIL	X	X	X	X	X				2	01A, M, O, Q
B-20			SS-4		X	X	X	X	X				2	02A, M, O, Q
MW-8			SS-3								X		1	03X COMBINE EQUAL PARTS
MW-8			SS-4								X		1	04X OF EACH SAMPLE INTO
MW-8			SS-5								X		1	05X SIEVE ANALYSIS.
MW-8			SS-6								X		1	06X
														07L
				VOA Vial	X									
				Glass Bottle		X	X	X	X		X			
				Plastic Bottle										
				Pres.	C	C	C	C	C		C			
				Volume										

Relinquished by: [signature] Date: 10/27/95 Time: 3:58 PM

Received by: [signature] Date: 10/27/95 Time: 3:58 PM

Relinquished by: Date: Time:

Received by: Date: Time:

Preservation Key: A — Acidified with ____ B — Filtered, C — Sample chilled, D — NaOH, E — NaThiosulfate, W — Sample Ambient, F — Other

REMARKS/COMMENTS: (Sample storage, nonstandard bottles, cautions, special instructions)

Standard laboratory turnaround time is 2 weeks from date of receipt. Accelerated turnaround may be assessed a surcharge.
Accelerated turnaround requested:
Confirmed by: Surcharge:

Location of samples: B4, A7B3, Quaternary

Turnaround: 24 Hrs. 48 Hrs. 1 Week (2 Weeks) Other:

OFFICE COPY

CHI 119

3 대비

CleanHarbors
ENVIRONMENTAL SERVICES, INC.
325 WOOD ROAD • BRAINTREE, MA 02184
(617) 849-1800

REPORT OF ANALYSIS

Clean Harbors Environmental Services, Inc.
12 Mercer Road
Natick, MA 01760

Project: MURPHY'S
P.O. #: EN170

Date Received: 11/17/95
CHES Lab #: 9511236

Attn: Mr. Jay McCreery

Enclosed are the results for the sample(s) delivered to our laboratory (DEP Laboratory ID# M-MA032) on the date indicated above.

The methods listed represent those methodologies which were used to develop the best analytical techniques. Analytical results and quality assurance protocols are based on these guidelines. These meet the requirements for the reporting of results under the RCRA, NPDES and Safe Drinking Water Act regulations.

Clean Harbors Environmental Services has an active program of quality assurance and quality control. The program closely follows the guidance provided in the EPA Contract Laboratory Program Statement of Work (organic and inorganic), the guidance provided in SW-846, and many other pertinent documents.

Should you have any questions concerning this work, please do not hesitate to contact me.

The information contained in this report is, to the best of my knowledge, accurate and complete.

Per/Date: Michael J. Murray 12/7/95

Michael J. Murray
Laboratory Manager

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-1
Sample Type: Soil

CHES Lab #: 9511236-010
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	44	11/27/95	11/28/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil with additional single component peaks.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 100%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-1
Sample Type: Soil

CHES Lab #: 9511236-010
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/20/95
Analysis Date: 11/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.6	ND	mg/kg
PCB - Aroclor 1221	1.6	ND	mg/kg
PCB - Aroclor 1232	1.6	ND	mg/kg
PCB - Aroclor 1242	1.6	ND	mg/kg
PCB - Aroclor 1248	1.6	ND	mg/kg
PCB - Aroclor 1254	1.6	3.3	mg/kg
PCB - Aroclor 1260	1.6	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	NA	78-148%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-1
Sample Type: Soil

CHES Lab #: 9511236-01M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	1.8	76	11/27/95	11/28/95	3050/6010(c)
Lead - Total	6	90	11/27/95	11/28/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-1
Sample Type: Soil

CHES Lab #: 9511236-01M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	50.6	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-2
Sample Type: Soil

CHES Lab #: 9511236-020
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	92	11/27/95	11/28/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil with additional single component peaks.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 91%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-2
Sample Type: Soil

CHES Lab #: 9511236-020
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/20/95
Analysis Date: 11/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.3	ND	mg/kg
PCB - Aroclor 1221	1.3	ND	mg/kg
PCB - Aroclor 1232	1.3	ND	mg/kg
PCB - Aroclor 1242	1.3	ND	mg/kg
PCB - Aroclor 1248	1.3	ND	mg/kg
PCB - Aroclor 1254	1.3	2.7	mg/kg
PCB - Aroclor 1260	1.3	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	NA	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-2
Sample Type: Soil

CHES Lab #: 9511236-02M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	1.4	56	11/27/95	11/28/95	3050/6010(c)
Lead - Total	5	80	11/27/95	11/28/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-2
Sample Type: Soil

CHES Lab #: 9511236-02M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	62.0	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-3
Sample Type: Soil

CHES Lab #: 9511236-030
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	320	11/27/95	11/28/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-3
Sample Type: Soil

CHES Lab #: 9511236-030
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/20/95
Analysis Date: 11/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.5	ND	mg/kg
PCB - Aroclor 1221	1.5	ND	mg/kg
PCB - Aroclor 1232	1.5	ND	mg/kg
PCB - Aroclor 1242	1.5	ND	mg/kg
PCB - Aroclor 1248	1.5	ND	mg/kg
PCB - Aroclor 1254	1.5	3.1	mg/kg
PCB - Aroclor 1260	1.5	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	NA	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-3
Sample Type: Soil

CHES Lab #: 9511236-03M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	1.6	210	11/27/95	11/28/95	3050/6010(c)
Lead - Total	5	140	11/27/95	11/28/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-3
Sample Type: Soil

CHES Lab #: 9511236-03M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	53.9	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-4
Sample Type: Soil

CHES Lab #: 9511236-040
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	40	11/27/95	11/28/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil with additional single component peaks.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 73%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-4
Sample Type: Soil

CHES Lab #: 9511236-040
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/20/95
Analysis Date: 11/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	14	ND	mg/kg
PCB - Aroclor 1221	14	ND	mg/kg
PCB - Aroclor 1232	14	ND	mg/kg
PCB - Aroclor 1242	14	ND	mg/kg
PCB - Aroclor 1248	14	ND	mg/kg
PCB - Aroclor 1254	14	15	mg/kg
PCB - Aroclor 1260	14	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	NA	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-4
Sample Type: Soil

CHES Lab #: 9511236-04M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	1.7	45.1	11/27/95	11/28/95	3050/6010(c)
Lead - Total	6	30	11/27/95	11/28/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services. Inc.
Sample I.D.: P-4
Sample Type: Soil

CHES Lab #: 9511236-04M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	59.5	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-5
Sample Type: Soil

CHES Lab #: 9511236-050
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	610	11/27/95	11/28/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-5
Sample Type: Soil

CHES Lab #: 9511236-050
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/20/95
Analysis Date: 11/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	21	ND	mg/kg
PCB - Aroclor 1221	21	ND	mg/kg
PCB - Aroclor 1232	21	ND	mg/kg
PCB - Aroclor 1242	21	ND	mg/kg
PCB - Aroclor 1248	21	ND	mg/kg
PCB - Aroclor 1254	21	69	mg/kg
PCB - Aroclor 1260	21	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	NA	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-5
Sample Type: Soil

CHES Lab #: 9511236-05M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	2.4	280	11/27/95	11/28/95	3050/6010(c)
Lead - Total	8	1,700	11/27/95	11/28/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-5
Sample Type: Soil

CHES Lab #: 9511236-05M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	39.6	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-6
Sample Type: Soil

CHES Lab #: 9511236-060
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	620	11/27/95	11/28/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-6
Sample Type: Soil

CHES Lab #: 9511236-060
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/20/95
Analysis Date: 11/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	mg/kg
PCB - Aroclor 1221	1.0	ND	mg/kg
PCB - Aroclor 1232	1.0	ND	mg/kg
PCB - Aroclor 1242	1.0	ND	mg/kg
PCB - Aroclor 1248	1.0	ND	mg/kg
PCB - Aroclor 1254	1.0	6.7	mg/kg
PCB - Aroclor 1260	1.0	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	NA	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-6
Sample Type: Soil

CHES Lab #: 9511236-06M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	1.1	500	11/27/95	11/28/95	3050/6010(c)
Lead - Total	4	620	11/27/95	11/28/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-6
Sample Type: Soil

CHES Lab #: 9511236-06M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	79.4	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-7
Sample Type: Soil

CHES Lab #: 9511236-070
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	150	3,900	11/27/95	11/29/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-7
Sample Type: Soil

CHES Lab #: 9511236-070
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/20/95
Analysis Date: 11/29/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	3.0	ND	mg/kg
PCB - Aroclor 1221	3.0	ND	mg/kg
PCB - Aroclor 1232	3.0	ND	mg/kg
PCB - Aroclor 1242	3.0	ND	mg/kg
PCB - Aroclor 1248	3.0	ND	mg/kg
PCB - Aroclor 1254	3.0	8.9	mg/kg
PCB - Aroclor 1260	3.0	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	NA	78-148%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-7
Sample Type: Soil

CHES Lab #: 9511236-07M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	3.3	800	11/27/95	11/28/95	3050/6010(c)
Lead - Total	10	2,700	11/27/95	11/28/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-7
Sample Type: Soil

CHES Lab #: 9511236-07M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	27.2	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-9
Sample Type: Soil

CHES Lab #: 9511236-080
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	140	11/27/95	11/30/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil with additional single component peaks.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 79%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-9
Sample Type: Soil

CHES Lab #: 9511236-080
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/20/95
Analysis Date: 11/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.3	ND	mg/kg
PCB - Aroclor 1221	1.3	ND	mg/kg
PCB - Aroclor 1232	1.3	ND	mg/kg
PCB - Aroclor 1242	1.3	ND	mg/kg
PCB - Aroclor 1248	1.3	ND	mg/kg
PCB - Aroclor 1254	1.3	5.7	mg/kg
PCB - Aroclor 1260	1.3	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	NA	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-9
Sample Type: Soil

CHES Lab #: 9511236-08M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	1.7	110	11/27/95	11/28/95	3050/6010(c)
Lead - Total	6	100	11/27/95	11/28/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-9
Sample Type: Soil

CHES Lab #: 9511236-08M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	59.8	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-10
Sample Type: Soil

CHES Lab #: 9511236-090
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	28	610	11/27/95	11/29/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 139%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-10
Sample Type: Soil

CHES Lab #: 9511236-090
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/20/95
Analysis Date: 11/29/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.2	ND	mg/kg
PCB - Aroclor 1221	1.2	ND	mg/kg
PCB - Aroclor 1232	1.2	ND	mg/kg
PCB - Aroclor 1242	1.2	ND	mg/kg
PCB - Aroclor 1248	1.2	ND	mg/kg
PCB - Aroclor 1254	1.2	5.4	mg/kg
PCB - Aroclor 1260	1.2	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	NA	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-10
Sample Type: Soil

CHES Lab #: 9511236-09M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	1.5	290	11/27/95	11/28/95	3050/6010(c)
Lead - Total	5	1,400	11/27/95	11/28/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-10
Sample Type: Soil

CHES Lab #: 9511236-09M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	71.2	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-11
Sample Type: Soil

CHES Lab #: 9511236-100
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	140	4,100	11/27/95	11/29/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-11
Sample Type: Soil

CHES Lab #: 9511236-100
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/27/95
Analysis Date: 11/29/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	2.8	ND	mg/kg
PCB - Aroclor 1221	2.8	ND	mg/kg
PCB - Aroclor 1232	2.8	ND	mg/kg
PCB - Aroclor 1242	2.8	ND	mg/kg
PCB - Aroclor 1248	2.8	ND	mg/kg
PCB - Aroclor 1254	2.8	8.5	mg/kg
PCB - Aroclor 1260	2.8	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	NA	78-148%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-11
Sample Type: Soil

CHES Lab #: 9511236-10M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	2.7	180	11/27/95	11/28/95	3050/6010(c)
Lead - Total	9	730	11/27/95	11/28/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-11
Sample Type: Soil

CHES Lab #: 9511236-10M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	29.6	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-12
Sample Type: Soil

CHES Lab #: 9511236-280
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	86	82,000	11/28/95	11/30/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-12
Sample Type: Soil

CHES Lab #: 9511236-280
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/29/95
Analysis Date: 11/30/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	17	ND	mg/kg
PCB - Aroclor 1221	17	ND	mg/kg
PCB - Aroclor 1232	17	ND	mg/kg
PCB - Aroclor 1242	17	ND	mg/kg
PCB - Aroclor 1248	17	ND	mg/kg
PCB - Aroclor 1254	17	60	mg/kg
PCB - Aroclor 1260	17	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	NA	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-12
Sample Type: Soil

CHES Lab #: 9511236-28M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	2.0	340	11/28/95	11/29/95	3050/6010(c)
Lead - Total	7	24,900	11/28/95	11/29/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-12
Sample Type: Soil

CHES Lab #: 9511236-28M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	45.7	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-13
Sample Type: Soil

CHES Lab #: 9511236-110
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	34	550	11/27/95	11/29/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil with additional single component peaks.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 66%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-13
Sample Type: Soil

CHES Lab #: 9511236-110
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/27/95
Analysis Date: 11/30/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	14	ND	mg/kg
PCB - Aroclor 1221	14	ND	mg/kg
PCB - Aroclor 1232	14	ND	mg/kg
PCB - Aroclor 1242	14	ND	mg/kg
PCB - Aroclor 1248	14	ND	mg/kg
PCB - Aroclor 1254	14	37	mg/kg
PCB - Aroclor 1260	14	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	NA	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-13
Sample Type: Soil

CHES Lab #: 9511236-11M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	1.4	400	11/27/95	11/28/95	3050/6010(c)
Lead - Total	5	190	11/27/95	11/28/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-13
Sample Type: Soil

CHES Lab #: 9511236-11M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	57.4	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-14
Sample Type: Soil

CHES Lab #: 9511236-120
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	71	20,000	11/27/95	11/29/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-14
Sample Type: Soil

CHES Lab #: 9511236-120
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/27/95
Analysis Date: 11/29/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.5	ND	mg/kg
PCB - Aroclor 1221	1.5	ND	mg/kg
PCB - Aroclor 1232	1.5	ND	mg/kg
PCB - Aroclor 1242	1.5	ND	mg/kg
PCB - Aroclor 1248	1.5	ND	mg/kg
PCB - Aroclor 1254	1.5	ND	mg/kg
PCB - Aroclor 1260	1.5	11	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC

Surrogate Recovery	Acceptance Criteria
Hexabromobenzene: NA	78-148%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-14
Sample Type: Soil

CHES Lab #: 9511236-12M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	1.7	820	11/27/95	11/28/95	3050/6010(c)
Lead - Total	6	16,800	11/27/95	11/28/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-14
Sample Type: Soil

CHES Lab #: 9511236-12M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	54.6	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-15
Sample Type: Soil

CHES Lab #: 9511236-130
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	83	38,000	11/28/95	11/29/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-15
Sample Type: Soil

CHES Lab #: 9511236-130
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/27/95
Analysis Date: 11/29/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.8	ND	mg/kg
PCB - Aroclor 1221	1.8	ND	mg/kg
PCB - Aroclor 1232	1.8	ND	mg/kg
PCB - Aroclor 1242	1.8	ND	mg/kg
PCB - Aroclor 1248	1.8	ND	mg/kg
PCB - Aroclor 1254	1.8	ND	mg/kg
PCB - Aroclor 1260	1.8	24	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	NA	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-15
Sample Type: Soil

CHES Lab #: 9511236-13M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	1.7	1,100	11/28/95	11/29/95	3050/6010(c)
Lead - Total	6	1,700	11/28/95	11/29/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-15
Sample Type: Soil

CHES Lab #: 9511236-13M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	47.2	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-17
Sample Type: Soil

CHES Lab #: 9511236-140
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	29	330	11/28/95	11/29/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil with an additional single component peak.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-17
Sample Type: Soil

CHES Lab #: 9511236-140
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/27/95
Analysis Date: 11/29/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.3	ND	mg/kg
PCB - Aroclor 1221	1.3	ND	mg/kg
PCB - Aroclor 1232	1.3	ND	mg/kg
PCB - Aroclor 1242	1.3	ND	mg/kg
PCB - Aroclor 1248	1.3	ND	mg/kg
PCB - Aroclor 1254	1.3	5.9	mg/kg
PCB - Aroclor 1260	1.3	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	NA	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-17
Sample Type: Soil

CHES Lab #: 9511236-14M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	1.5	1,000	11/28/95	11/29/95	3050/6010(c)
Lead - Total	5	270	11/28/95	11/28/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-17
Sample Type: Soil

CHES Lab #: 9511236-14M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	66.1	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-18
Sample Type: Soil

CHES Lab #: 9511236-150
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	120	24,000	11/28/95	11/30/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-18
Sample Type: Soil

CHES Lab #: 9511236-150
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/27/95
Analysis Date: 11/29/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	2.6	ND	mg/kg
PCB - Aroclor 1221	2.6	ND	mg/kg
PCB - Aroclor 1232	2.6	ND	mg/kg
PCB - Aroclor 1242	2.6	ND	mg/kg
PCB - Aroclor 1248	2.6	ND	mg/kg
PCB - Aroclor 1254	2.6	ND	mg/kg
PCB - Aroclor 1260	2.6	13	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	NA	78-148%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-18
Sample Type: Soil

CHES Lab #: 9511236-15M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	2.6	970	11/28/95	11/29/95	3050/6010(c)
Lead - Total	9	3,200	11/28/95	11/29/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-18
Sample Type: Soil

CHES Lab #: 9511236-15M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	31.8	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-19
Sample Type: Soil

CHES Lab #: 9511236-160
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	35	770	11/28/95	11/30/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-19
Sample Type: Soil

CHES Lab #: 9511236-160
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/27/95
Analysis Date: 11/29/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.4	ND	mg/kg
PCB - Aroclor 1221	1.4	ND	mg/kg
PCB - Aroclor 1232	1.4	ND	mg/kg
PCB - Aroclor 1242	1.4	ND	mg/kg
PCB - Aroclor 1248	1.4	ND	mg/kg
PCB - Aroclor 1254	1.4	ND	mg/kg
PCB - Aroclor 1260	1.4	3.1	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	NA	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-19
Sample Type: Soil

CHES Lab #: 9511236-16M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	1.2	2,000	11/28/95	11/29/95	3050/6010(c)
Lead - Total	4	1,500	11/28/95	11/29/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-19
Sample Type: Soil

CHES Lab #: 9511236-16M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	55.1	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-20
Sample Type: Soil

CHES Lab #: 9511236-170
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	69	11/28/95	11/30/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil with additional single component peaks.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 62%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-20
Sample Type: Soil

CHES Lab #: 9511236-170
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/27/95
Analysis Date: 11/29/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	0.1	ND	mg/kg
PCB - Aroclor 1221	0.1	ND	mg/kg
PCB - Aroclor 1232	0.1	ND	mg/kg
PCB - Aroclor 1242	0.1	ND	mg/kg
PCB - Aroclor 1248	0.1	ND	mg/kg
PCB - Aroclor 1254	0.1	ND	mg/kg
PCB - Aroclor 1260	0.1	0.8	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	80.7%	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-20
Sample Type: Soil

CHES Lab #: 9511236-17M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	1.0	190	11/28/95	11/28/95	3050/6010(c)
Lead - Total	3	70	11/28/95	11/28/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Appendix E (F (cont.)

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-20
Sample Type: Soil

CHES Lab #: 9511236-17M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	70.5	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-21
Sample Type: Soil

CHES Lab #: 9511236-180
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	30	2,100	11/28/95	11/30/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-21
Sample Type: Soil

CHES Lab #: 9511236-180
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/27/95
Analysis Date: 11/29/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.2	ND	mg/kg
PCB - Aroclor 1221	1.2	ND	mg/kg
PCB - Aroclor 1232	1.2	ND	mg/kg
PCB - Aroclor 1242	1.2	ND	mg/kg
PCB - Aroclor 1248	1.2	ND	mg/kg
PCB - Aroclor 1254	1.2	ND	mg/kg
PCB - Aroclor 1260	1.2	1.4	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	NA	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-21
Sample Type: Soil

CHES Lab #: 9511236-18M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	1.3	1,800	11/28/95	11/29/95	3050/6010(c)
Lead - Total	4	600	11/28/95	11/29/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-21
Sample Type: Soil

CHES Lab #: 9511236-18M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	67.4	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-22
Sample Type: Soil

CHES Lab #: 9511236-190
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	23	110	11/28/95	11/30/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 70%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-22
Sample Type: Soil

CHES Lab #: 9511236-190
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/27/95
Analysis Date: 11/29/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	0.1	ND	mg/kg
PCB - Aroclor 1221	0.1	ND	mg/kg
PCB - Aroclor 1232	0.1	ND	mg/kg
PCB - Aroclor 1242	0.1	ND	mg/kg
PCB - Aroclor 1248	0.1	ND	mg/kg
PCB - Aroclor 1254	0.1	ND	mg/kg
PCB - Aroclor 1260	0.1	0.4	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	89.3%	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-22
Sample Type: Soil

CHES Lab #: 9511236-19M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	0.50	230	11/28/95	11/29/95	3050/6010(c)
Lead - Total	2	70	11/28/95	11/28/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-22
Sample Type: Soil

CHES Lab #: 9511236-19M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	87.4	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-23
Sample Type: Soil

CHES Lab #: 9511236-200
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	52	11,000	11/28/95	11/30/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: NA	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-23
Sample Type: Soil

CHES Lab #: 9511236-200
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/27/95
Analysis Date: 11/29/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	2.2	ND	mg/kg
PCB - Aroclor 1221	2.2	ND	mg/kg
PCB - Aroclor 1232	2.2	ND	mg/kg
PCB - Aroclor 1242	2.2	ND	mg/kg
PCB - Aroclor 1248	2.2	ND	mg/kg
PCB - Aroclor 1254	2.2	10	mg/kg
PCB - Aroclor 1260	2.2	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	NA	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-23
Sample Type: Soil

CHES Lab #: 9511236-20M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	2.0	21,300	11/28/95	11/29/95	3050/6010(c)
Lead - Total	7	2,500	11/28/95	11/29/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-23
Sample Type: Soil

CHES Lab #: 9511236-20M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	37.0	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-24
Sample Type: Soil

CHES Lab #: 9511236-210
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	58	540	11/28/95	11/30/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 51%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-24
Sample Type: Soil

CHES Lab #: 9511236-210
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/28/95
Analysis Date: 11/30/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	0.2	ND	mg/kg
PCB - Aroclor 1221	0.2	ND	mg/kg
PCB - Aroclor 1232	0.2	ND	mg/kg
PCB - Aroclor 1242	0.2	ND	mg/kg
PCB - Aroclor 1248	0.2	ND	mg/kg
PCB - Aroclor 1254	0.2	ND	mg/kg
PCB - Aroclor 1260	0.2	1.0	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	55.1%	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-24
Sample Type: Soil

CHES Lab #: 9511236-21M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	2.9	62,500	11/28/95	11/29/95	3050/6010(c)
Lead - Total	10	3,300	11/28/95	11/28/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-24
Sample Type: Soil

CHES Lab #: 9511236-21M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	33.7	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-25
Sample Type: Soil

CHES Lab #: 9511236-220
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	54	260	11/28/95	11/30/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil with an additional single component peak.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 59%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-25
Sample Type: Soil

CHES Lab #: 9511236-220
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/28/95
Analysis Date: 11/29/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	2.3	ND	mg/kg
PCB - Aroclor 1221	2.3	ND	mg/kg
PCB - Aroclor 1232	2.3	ND	mg/kg
PCB - Aroclor 1242	2.3	ND	mg/kg
PCB - Aroclor 1248	2.3	ND	mg/kg
PCB - Aroclor 1254	2.3	2.9	mg/kg
PCB - Aroclor 1260	2.3	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	NA	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-25
Sample Type: Soil

CHES Lab #: 9511236-22M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	2.5	12,400	11/28/95	11/29/95	3050/6010(c)
Lead - Total	8	380	11/28/95	11/28/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-25
Sample Type: Soil

CHES Lab #: 9511236-22M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	35.9	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-26
Sample Type: Soil

CHES Lab #: 9511236-230
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	67	270	11/28/95	11/30/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 57%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-26
Sample Type: Soil

CHES Lab #: 9511236-230
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/28/95
Analysis Date: 11/29/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	2.8	ND	mg/kg
PCB - Aroclor 1221	2.8	ND	mg/kg
PCB - Aroclor 1232	2.8	ND	mg/kg
PCB - Aroclor 1242	2.8	ND	mg/kg
PCB - Aroclor 1248	2.8	ND	mg/kg
PCB - Aroclor 1254	2.8	ND	mg/kg
PCB - Aroclor 1260	2.8	6.6	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	NA	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-26
Sample Type: Soil

CHES Lab #: 9511236-23M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	2.4	66,500	11/28/95	11/29/95	3050/6010(c)
Lead - Total	8	1,400	11/28/95	11/29/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-26
Sample Type: Soil

CHES Lab #: 9511236-23M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	29.3	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-27
Sample Type: Soil

CHES Lab #: 9511236-240
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	11	230	11/28/95	11/30/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil with additional single component peaks.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 51%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-27
Sample Type: Soil

CHES Lab #: 9511236-240
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/28/95
Analysis Date: 11/30/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	0.2	ND	mg/kg
PCB - Aroclor 1221	0.2	ND	mg/kg
PCB - Aroclor 1232	0.2	ND	mg/kg
PCB - Aroclor 1242	0.2	ND	mg/kg
PCB - Aroclor 1248	0.2	ND	mg/kg
PCB - Aroclor 1254	0.2	ND	mg/kg
PCB - Aroclor 1260	0.2	0.2	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	69.4%	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-27
Sample Type: Soil

CHES Lab #: 9511236-24M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	1.9	14,000	11/28/95	11/29/95	3050/6010(c)
Lead - Total	6	600	11/28/95	11/28/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-27
Sample Type: Soil

CHES Lab #: 9511236-24M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	35.9	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-28
Sample Type: Soil

CHES Lab #: 9511236-250
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	22	11/28/95	11/30/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil with additional single component peaks.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 74%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-28
Sample Type: Soil

CHES Lab #: 9511236-250
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/28/95
Analysis Date: 11/29/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.3	ND	mg/kg
PCB - Aroclor 1221	1.3	ND	mg/kg
PCB - Aroclor 1232	1.3	ND	mg/kg
PCB - Aroclor 1242	1.3	ND	mg/kg
PCB - Aroclor 1248	1.3	ND	mg/kg
PCB - Aroclor 1254	1.3	ND	mg/kg
PCB - Aroclor 1260	1.3	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	NA	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-28
Sample Type: Soil

CHES Lab #: 9511236-25M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	1.3	3,100	11/28/95	11/29/95	3050/6010(c)
Lead - Total	4	90	11/28/95	11/28/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-28
Sample Type: Soil

CHES Lab #: 9511236-25M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	60.8	%	11/22/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-29
Sample Type: Soil

CHES Lab #: 9511236-260
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	130	11/28/95	11/30/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil with an additional single component peak.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 73%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-29
Sample Type: Soil

CHES Lab #: 9511236-260
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/28/95
Analysis Date: 12/01/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	0.2	ND	mg/kg
PCB - Aroclor 1221	0.2	ND	mg/kg
PCB - Aroclor 1232	0.2	ND	mg/kg
PCB - Aroclor 1242	0.2	ND	mg/kg
PCB - Aroclor 1248	0.2	ND	mg/kg
PCB - Aroclor 1254	0.2	ND	mg/kg
PCB - Aroclor 1260	0.2	0.2	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	65.8%	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-29
Sample Type: Soil

CHES Lab #: 9511236-26M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	2.0	760	11/28/95	11/29/95	3050/6010(c)
Lead - Total	0.68	120	11/28/95	11/29/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-29
Sample Type: Soil

CHES Lab #: 9511236-26M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	48.2	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-30
Sample Type: Soil

CHES Lab #: 9511236-270
Date Received: 11/17/95

Parameter	PQL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	77	11/28/95	12/01/95	**

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
** = U.S.EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual ; November 1990.
Soil/solid samples based on sample dry weight.

Evaluation:
Hydrocarbons observed with an appearance characteristic of lubricating oil with additional single component peaks.

Hydrocarbons quantitated as:
C10 - C38

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 51%	50-150%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-30
Sample Type: Soil

CHES Lab #: 9511236-270
Date Received: 11/17/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/28/95
Analysis Date: 11/30/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	0.2	ND	mg/kg
PCB - Aroclor 1221	0.2	ND	mg/kg
PCB - Aroclor 1232	0.2	ND	mg/kg
PCB - Aroclor 1242	0.2	ND	mg/kg
PCB - Aroclor 1248	0.2	ND	mg/kg
PCB - Aroclor 1254	0.2	ND	mg/kg
PCB - Aroclor 1260	0.2	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	60.3%	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-30
Sample Type: Soil

CHES Lab #: 9511236-27M
Date Received: 11/17/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	2.1	9,400	11/28/95	11/29/95	3050/6010(c)
Lead - Total	7	280	11/28/95	11/28/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-30
Sample Type: Soil

CHES Lab #: 9511236-27M
Date Received: 11/17/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	38.2	%	11/21/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

QUALITY CONTROL

REPORT OF ANALYSIS

CHES LAB. NO. 9511236

The attached quality control data were generated during the analysis of these samples. All results have been generated in accordance with the procedures as stated in the Clean Harbors Environmental Services, Inc. Quality Assurance/Quality Control Manual and pertinent standard operating procedures, which are available for review. The attached has been submitted for informational purposes only.

CleanHarbors

Parameter	PQL*	Result	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	ND	11/27/95	11/27/95	**

Notes:

ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.
* = mg/kg
** = U.S. EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual; November 1990.
Hydrocarbon quantitative range:
C10 - C38

Hydrocarbon qualitative identification:

No significant hydrocarbon observed.

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 83 %	50 - 150%

CleanHarbors

Parameter	PQL*	Result	Extraction Date	Analysis Date	Method Number and Reference
Total Petroleum Hydrocarbons by GC/FID	10	ND	11/28/95	11/30/95	**

Notes:

ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.
* = mg/kg
** = U.S. EPA UST draft method, Measurement of Petroleum Hydrocarbons: Report on Activities to Develop a Manual; November 1990.
Hydrocarbon quantitative range:
C10 - C38

Hydrocarbon qualitative identification:

No significant hydrocarbon observed.

QA/QC

Surrogate Recoveries:	Acceptance Criteria:
Ortho-terphenyl: 78 %	50 - 150%

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9511236

Polychlorinated Biphenyls (PCBs) Blank
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/20/95
Analysis Date: 11/28/95

Parameter	**PQL**	**Concentration**	**Units**
PCB - Aroclor 1016	0.1	ND	mg/kg
PCB - Aroclor 1221	0.1	ND	mg/kg
PCB - Aroclor 1232	0.1	ND	mg/kg
PCB - Aroclor 1242	0.1	ND	mg/kg
PCB - Aroclor 1248	0.1	ND	mg/kg
PCB - Aroclor 1254	0.1	ND	mg/kg
PCB - Aroclor 1260	0.1	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	91.8%	78-148%

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9511236

Polychlorinated Biphenyls (PCBs) Blank
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/27/95
Analysis Date: 11/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	0.1	ND	mg/kg
PCB - Aroclor 1221	0.1	ND	mg/kg
PCB - Aroclor 1232	0.1	ND	mg/kg
PCB - Aroclor 1242	0.1	ND	mg/kg
PCB - Aroclor 1248	0.1	ND	mg/kg
PCB - Aroclor 1254	0.1	ND	mg/kg
PCB - Aroclor 1260	0.1	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	90.2%	78-148%

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9511236

Polychlorinated Biphenyls (PCBs) Blank
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/28/95
Analysis Date: 11/29/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	0.1	ND	mg/kg
PCB - Aroclor 1221	0.1	ND	mg/kg
PCB - Aroclor 1232	0.1	ND	mg/kg
PCB - Aroclor 1242	0.1	ND	mg/kg
PCB - Aroclor 1248	0.1	ND	mg/kg
PCB - Aroclor 1254	0.1	ND	mg/kg
PCB - Aroclor 1260	0.1	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	89.3%	78-148%

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9511236

Polychlorinated Biphenyls (PCBs) Blank
by EPA Method 3540/8080 (ref. c)

Extraction Date: 11/29/95
Analysis Date: 11/30/95

Parameter	**PQL**	**Concentration**	**Units**
PCB - Aroclor 1016	0.1	ND	mg/kg
PCB - Aroclor 1221	0.1	ND	mg/kg
PCB - Aroclor 1232	0.1	ND	mg/kg
PCB - Aroclor 1242	0.1	ND	mg/kg
PCB - Aroclor 1248	0.1	ND	mg/kg
PCB - Aroclor 1254	0.1	ND	mg/kg
PCB - Aroclor 1260	0.1	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	88.6%	78-148%

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9511236

BLANK ANALYSIS

METALS

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	0.03	ND	11/27/95	11/28/95	3050/6010(c)
Lead - Total	0.1	ND	11/27/95	11/28/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9511236

BLANK ANALYSIS

METALS

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	0.03	ND	11/28/95	11/29/95	3050/6010(c)
Lead - Total	0.1	ND	11/28/95	11/29/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

CleanHarbors

1 pm 11/21

Clean Harbors Analytical Services, Inc., 325 Wood Rd., Braintree, MA 02184	CHAIN OF CUSTODY RECORD	Sample Custodian — (617) 849-1800	Page 1 of 3

Client: CHES Project Name: Murphy's Work Order/P.O. #: EN-170 Date: 11/16/95

Report To: C. J. McCreery Address: Natick Phone #: X-6399

Date Samples Collected: 11/16/95 by: P.N. + T.T. Date Samples Received: 11-17-95

Airbill/Bill of Lading? Y (N) NOTE: Samples received unpreserved will be preserved upon arrival at CHAS. Samples were: Preserved (Unpreserved)

Sample I.D.	Sampling Information: Date	Time	Station Location	Sample Matrix	Analysis: TPH by GC/FID	PCB by 8080	Total Pb + Cr 3005/6010						# of con.	CHAS Sample # 11-17-95 pt 9511236
P-1	11/16	9:20		Soil	✓	✓	✓						1	01 M.O
P-2	↓	9:52		↓	✓	✓	✓						1	02 M.O
P-3		10:20			✓	✓	✓						1	03 M.O
P-4		10:09			✓	✓	✓						1	04 M.O
P-5		11:27			✓	✓	✓						1	05 M.O
P-6		11:09			✓	✓	✓						1	06 M.O
P-7		10:44			✓	✓	✓						1	07 M.O
P-9		11:42			✓	✓	✓						1	08 M.O
P-10	↓	11:53		↓	✓	✓	✓						1	09 M.O
				VOA Vial										
				Glass Bottle	✓	✓	✓							
				Plastic Bottle										
				Pres.	C	C	C							
				Volume										

Relinquished by: [signature] Date: 11/17/95 Time: 12:15 pm.

Received by: Robert J. [signature] Date: 11-17-95 Time: 12:15 pm

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Preservation Key: A — Acidified with _____
B — Filtered, C — Sample chilled, D— NaOH,
E — NaThiosulfate, W — Sample Ambient, F — Other

REMARKS/COMMENTS: (Sample storage, nonstandard bottles, cautions, special instructions)

Standard laboratory turnaround time is 2 weeks from date of receipt. Accelerated turnaround may be assessed a surcharge.
Accelerated turnaround requested: _____
Confirmed by: _____ Surcharge: _____

Location of samples: RTRZ

Turnaround: 24 Hrs. 48 Hrs. 1 Week (2 Weeks) Other: _____

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CleanHarbors

Clean Harbors Analytical Services, Inc., 325 Wood Rd., Braintree, MA 02184 | CHAIN OF CUSTODY RECORD | Sample Custodian — (617) 849-1800 | Page 2 of 3

Client: CHES Project Name: Murphy's Work Order/P.O. #: GN-120 Date: 11/16/95

Report To: CJ McCreery Address: Natick Phone #: X-6399

Date Samples Collected: 11/16/95 by: P.N. + T.T. Date Samples Received: 11-17-95

Airbill/Bill of Lading? Y (N) NOTE: Samples received unpreserved will be preserved upon arrival at CHAS. Samples were: Preserved (Unpreserved)

Sample I.D.	Sampling Information: Date	Time	Station Location	Sample Matrix	TPH by GC/FID	PCBs by 8080	Total Pb + Cr 9030/6010						# of con.	CHAS Sample # 11-17-95 RA 9511236
P-11	11/16	12:32		soil	✓	✓	✓						1	~~01~~ 10MO
P-13	↓	1:33		↓	✓	✓	✓						1	11 MO
P-14		1:43			✓	✓	✓						1	12 M,O
P-15		1:51			✓	✓	✓						1	13 M,O
P-17		2:04			✓	✓	✓						1	14 M,O
P-18		2:12			✓	✓	✓						1	15, M,O
P-19		3:13			✓	✓	✓						1	16 M,O
P-20		2:59			✓	✓	✓						1	17, M,O
P-21	↓	3:04		↓	✓	✓	✓						1	18 M,O
				VOA Vial										
				Glass Bottle	✓	✓	✓							
				Plastic Bottle										
				Pres.	C	C	C							
				Volume										

Relinquished by: Rico N
Date: 11/17/95 Time: 12:15 pm

Received by: Robert J Als
Date: 11-17-95 Time: 12:15 pm

Relinquished by:
Date: Time:

Received by:
Date: Time:

Preservation Key: A — Acidified with _____
B — Filtered, C — Sample chilled, D— NaOH,
E — NaThiosulfate, W — Sample Ambient, F — Other

REMARKS/COMMENTS: (Sample storage, nonstandard bottles, cautions, special instructions)

Standard laboratory turnaround time is 2 weeks from date of receipt. Accelerated turnaround may be assessed a surcharge.
Accelerated turnaround requested:
Confirmed by: Surcharge:

Location of samples: FTR2

Turnaround: 24 Hrs. 48 Hrs. 1 Week (2 Weeks) Other:

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Clean Harbors Analytical Services, Inc., 325 Wood Rd., Braintree, MA 02184	CHAIN OF CUSTODY RECORD	Sample Custodian — (617) 849-1800	Page 3 of 3

Client: CHES Project Name: Murphy's Work Order/P.O. #: EN-170 Date: 11/18/95

Report To: CJ McCreery Address: Natick Phone #: X-6399

Date Samples Collected: 11/17/95 by: P.N. + T.T. Date Samples Received: 11-17-95

Airbill/Bill of Lading? Y (N) NOTE: Samples received unpreserved will be preserved upon arrival at CHAS. Samples were: Preserved (Unpreserved)

Sample I.D.	Sampling Information: Date	Time	Station Location	Sample Matrix	Analysis: TPH by GC/FID	PCBs by 8080	Total Pb + Cr #3005/6010						# of con.	CHAS Sample # 11-17-95 RA 951236
P-22	11/17	8:53		Soil	✓	✓	✓						1	19 M.O
P-23		9:05			✓	✓	✓						1	20 M.O
P-24		9:13			✓	✓	✓						1	21 M.O
P-25		9:20			✓	✓	✓						1	22 M.O
P-26		9:25			✓	✓	✓						1	23 M.O
P-27		9:35			✓	✓	✓						1	24 M.O
P-28		9:38			✓	✓	✓						1	25 M.O
P-29		9:50			✓	✓	✓						1	26 M.O
P-30	11/16	9:56 / 2:25			✓	✓	✓						1 / 1	27 MO / 28 M.O
P-12				VOA Vial										
				Glass Bottle	✓	✓	✓							
				Plastic Bottle										
				Pres.	C	C	C							
				Volume										

Relinquished by: [signature] Date: 11/17/95 Time: 12:15 PM

Received by: Robert Jan Date: 11-17-95 Time: 12:15 PM

Relinquished by: Date: Time:

Received by: Date: Time:

Preservation Key: A — Acidified with ____ B — Filtered, C — Sample chilled, D— NaOH, E — NaThiosulfate, W — Sample Ambient, F — Other

REMARKS/COMMENTS: (Sample storage, nonstandard bottles, cautions, special instructions)

Standard laboratory turnaround time is 2 weeks from date of receipt. Accelerated turnaround may be assessed a surcharge.
Accelerated turnaround requested:
Confirmed by: Surcharge:

Location of samples: R-7 R3

Turnaround: 24 Hrs. 48 Hrs. 1 Week (2 Weeks) Other:

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CleanHarbors

Method References

(a) "Methods for Chemical Analysis of Water and Wastes," Publication EPA-600/4-79-020, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, 1979, revised March 1983.

(b) "Standard Methods for the Examination of Water and Wastewater." 18th ed., American Public Health Association, American Water Works Association, Water Pollution Control Federation, Washington, D.C., 1992.

(c) "Test Methods for Evaluating Solid Waste: Physical/Chemical methods," 3rd ed., U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, D.C., November 1986, updated July 1992 and September 1994.

(d) "The Determination of Polychlorinated Biphenyls in Transformer Fluid and Waste Oils," Publication EPA-600/4-81-045, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, September 1982.

(e) "Hazardous Waste Management System; Identification and Listing of Hazardous Waste; Toxicity Characteristic Revisions; Final Rule," Federal Register, Vol. 55, No. 126, Friday, June 29, 1990, and revision in Federal Register, Vol. 57, No. 227, Tuesday, November 24, 1992.

(f) "Guidelines Establishing Test Procedures for Analysis of Pollutants," Code of Federal Regulations, Part 136 Appendix A and Appendix B, July 1, 1993.

(g) "Methods for the Determination of Organic Compounds in Drinking Water," U.S. Environmental Protection Agency, Office of Research and Development, Washington, D.C., December 1988, revised July 1991.

(h) "The Determination of Inorganic Anions in Water by Ion Chromatography - Method 300.0," Publication EPA-600/4-84-017, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, March 1984.

(i) "Hach Water Analysis Handbook," Hach Chemical Company, Loveland, CO, 1992.

(j) "USEPA-CLP Statement of Work for Organic Analysis," Publication OLM01.0 (including revisions, U.S. Environmental Protection Agency, Contract Laboratory Program, August 1991.

(k) "Annual Book of Standards," Section 11: Water and Environmental Technology, Vols. 11.01-11.04, American Society for Testing Materials, Philadelphia, 1989 & 1991.

(l) "Annual Book of Standards," Section 5: Petroleum Products and Lubricants, Vols. 5.01, American Society for Testing Materials, Philadelphia, 1993.

(m) "Annual Book of Standards," Section 4: Construction, Vol. 4.08, American Society for Testing Materials, Philadelphia, 1993.

(n) "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods," 2nd ed., U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, D.C., July 1982, updated April 1984.

(o) "Annual Book of Standards," Section 15: Engine Coolants; Halogenated Organic Solvents, Vol. 15.05,American Society for Testing Materials, Philadelphia, 1995.

[REF-09/21/95]

CleanHarbors
ENVIRONMENTAL SERVICES, INC.
325 WOOD ROAD, P.O. BOX 327, BRAINTREE, MA 02184-2402
(617) 849-1800

REPORT OF ANALYSIS
(ADDITIONAL)

Clean Harbors Environmental Services, Inc.
12 Mercer Road
Natick, MA 01760

Project: MURPHY'S
P.O. #: EN170

Date Received: 11/17/95
CHES Lab #: 9511236

Attn: Mr. Jay McCreery

Enclosed are the results for the sample(s) delivered to our laboratory (DEP Laboratory ID# M-MA032) on the date indicated above.

The methods listed represent those methodologies which were used to develop the best analytical techniques. Analytical results and quality assurance protocols are based on these guidelines. These meet the requirements for the reporting of results under the RCRA, NPDES and Safe Drinking Water Act regulations.

Clean Harbors Environmental Services has an active program of quality assurance and quality control. The program closely follows the guidance provided in the EPA Contract Laboratory Program Statement of Work (organic and inorganic), the guidance provided in SW-846, and many other pertinent documents.

Should you have any questions concerning this work, please do not hesitate to contact me.

The information contained in this report is, to the best of my knowledge, accurate and complete.

Per/Date: Michael J. Murray 12/21/95

Michael J. Murray
Laboratory Manager

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-26
Sample Type: Soil

CHES Lab #: 9511236-23M
Date Received: 11/17/95

Parameter	PQL*	Result*	Analysis Date	Method Number and Reference
Chromium - Hexavalent	0.66	1.4	12/21/95	3060/7196(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

CleanHarbors

Additional

Clean Harbors Analytical Services, Inc., 325 Wood Rd., Braintree, MA 02184	CHAIN OF CUSTODY RECORD	Sample Custodian — (617) 849-1800	Page of

Client: CHSJ Project Name: Murphy's Work Order/P.O. #: EN 170 Date:

Report To: Mr. Jay McGrory Address: Phone #:

Date Samples Collected: by: Date Samples Received:

Airbill/Bill of Lading? Y N NOTE: Samples received unpreserved will be preserved upon arrival at CHAS. Samples were: Preserved Unpreserved

Sample I.D.	Sampling Information				Analysis								# of con.	CHAS Sample #
	Date	Time	Station Location	Sample Matrix	Chrom Hrs									9511236
P-26	11/16			Soil	X									-23 M

VOA Vial									
Glass Bottle									
Plastic Bottle									
Pres.									
Volume									

Relinquished by: _____
Date: _____ Time: _____

Received by: _____
Date: _____ Time: _____

Relinquished by: _____
Date: _____ Time: _____

Received by: _____
Date: _____ Time: _____

Preservation Key: A — Acidified with _____
B — Filtered, C — Sample chilled, D— NaOH,
E — NaThiosulfate, W — Sample Ambient, F — Other

REMARKS/COMMENTS: (Sample storage, nonstandard bottles, cautions, special instructions)

ASAP RMB

Standard laboratory turnaround time is 2 weeks from date of receipt. Accelerated turnaround may be assessed a surcharge.
Accelerated turnaround requested: _____
Confirmed by: _____ Surcharge: _____

Location of samples: _____
Turnaround: 24 Hrs. 48 Hrs. 1 Week 2 Weeks Other: _____

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CleanHarbors
ENVIRONMENTAL SERVICES, INC.
325 WOOD ROAD, P.O. BOX 327, BRAINTREE, MA 02184-2402
(617) 849-1800

REPORT OF ANALYSIS

Clean Harbors Environmental Services, Inc.
12 Mercer Road
Natick, MA 01760

Project: MURPHY'S WASTE OIL
P.O. #: EN170

Date Received: 12/18/95
CHES Lab #: 9512202

Attn: Mr. Jay McCreery

Enclosed are the results for the sample(s) delivered to our laboratory (DEP Laboratory ID# M-MA032) on the date indicated above.

The methods listed represent those methodologies which were used to develop the best analytical techniques. Analytical results and quality assurance protocols are based on these guidelines. These meet the requirements for the reporting of results under the RCRA, NPDES and Safe Drinking Water Act regulations.

Clean Harbors Environmental Services has an active program of quality assurance and quality control. The program closely follows the guidance provided in the EPA Contract Laboratory Program Statement of Work (organic and inorganic), the guidance provided in SW-846, and many other pertinent documents.

Should you have any questions concerning this work, please do not hesitate to contact me.

The information contained in this report is, to the best of my knowledge, accurate and complete.

Per/Date: Michael J. Murray 1/15/96

Michael J. Murray
Laboratory Manager

Quanterra Environmental Services

Quanterra Incorporated
5815 Middlebrook Pike
Knoxville, Tennessee 37921

423 588-6401 Telephone
423 584-4315 Fax

ANALYTICAL REPORT

PROJECT NO. 09509110 / 9512202

CLEAN HARBOR ANALYTICAL

Mike Wedge

CLEAN HARBORS ANALYTICAL

QUANTERRA INCORPORATED

Rebecca L. Charles
Project Manager

January 5, 1996

Quanterra
Environmental Services

SAMPLE SUMMARY

The analytical results of the samples listed below are presented on the following pages.

WO #	LABORATORY ID	SAMPLE IDENTIFICATION	DATE/TIME SAMPLEI	
C2F8G	H5L210151-001	SW-2	12/18/95	10:00
C2F8X	H5L210151-002	P-12	12/18/95	9:15
C2F93	H5L210151-003	P-26	12/18/95	11:10
C2F96	H5L210151-004	P-24	12/18/95	10:45

Quanterra
Environmental Services

ANALYTICAL METHODS SUMMARY
H5L210151

Parameters	Methods
Polynuclear Aromatic Hydrocarbons by HPLC	SW846 8310
Total Residue as Percent Moisture	MCAWW 160.3 MOD

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

Quanterra
Environmental Services

PROJECT NARRATIVE

All holding times and QC criteria were met with the following exceptions:

Polynuclear Aromatic Hydrocarbons

These samples were not soluable in ACN/H2O and had to be run at higher dilutions to become soluable in the solution. Reporting limits were adjusted accordingly. Surrogates were diluted out on all samples.

Samples SW-2 and P-12 could not be brought to the final volume of 1.0 ml.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

P-12

WO #: C2F8X106
LAB #: H5L210151-002
MATRIX: SOLID
DILUTION FACTOR: 100.00

DATE SAMPLED: 12/18/95
TIME SAMPLED: 9:15
DATE RECEIVED: 12/20/95
% MOISTURE: 64.5

REQUESTED PARAMETERS

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Acenaphthene	ND	56,000	SW846 8310	12/27-01/03/96	535612
Acenaphthylene	ND	56,000	SW846 8310	12/27-01/03/96	535612
Anthracene	ND	56,000	SW846 8310	12/27-01/03/96	535612
Benzo(a)anthracene	ND	11,000	SW846 8310	12/27-01/03/96	535612
Benzo(a)pyrene	ND	11,000	SW846 8310	12/27-01/03/96	535612
Benzo(b)fluoranthene	ND	11,000	SW846 8310	12/27-01/03/96	535612
Benzo(ghi)perylene	ND	11,000	SW846 8310	12/27-01/03/96	535612
Benzo(k)fluoranthene	ND	11,000	SW846 8310	12/27-01/03/96	535612
Chrysene	ND	11,000	SW846 8310	12/27-01/03/96	535612
Dibenz(a,h)anthracene	ND	11,000	SW846 8310	12/27-01/03/96	535612
Fluoranthene	ND	11,000	SW846 8310	12/27-01/03/96	535612
Fluorene	ND	56,000	SW846 8310	12/27-01/03/96	535612
Indeno(1,2,3-cd)pyrene	ND	11,000	SW846 8310	12/27-01/03/96	535612
Naphthalene	ND	56,000	SW846 8310	12/27-01/03/96	535612
Phenanthrene	ND	56,000	SW846 8310	12/27-01/03/96	535612
Pyrene	ND	11,000	SW846 8310	12/27-01/03/96	535612

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
1-Fluoronaphthalene	DIL	(3 - 130)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT
DIL (DILUTED OUT)

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

P-24

WO #: C2F96106
LAB #: H5L210151-004
MATRIX: SOLID
DILUTION FACTOR: 10.00

DATE SAMPLED: 12/18/95
TIME SAMPLED: 10:45
DATE RECEIVED: 12/20/95
% MOISTURE: 54.5

REQUESTED PARAMETERS

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Acenaphthene	ND	4,400	SW846 8310	12/27-01/03/96	5356126
Acenaphthylene	ND	4,400	SW846 8310	12/27-01/03/96	5356126
Anthracene	ND	4,400	SW846 8310	12/27-01/03/96	5356126
Benzo(a)anthracene	ND	880	SW846 8310	12/27-01/03/96	5356126
Benzo(a)pyrene	ND	880	SW846 8310	12/27-01/03/96	5356126
Benzo(b)fluoranthene	ND	880	SW846 8310	12/27-01/03/96	5356126
Benzo(ghi)perylene	ND	880	SW846 8310	12/27-01/03/96	5356126
Benzo(k)fluoranthene	ND	880	SW846 8310	12/27-01/03/96	5356126
Chrysene	ND	880	SW846 8310	12/27-01/03/96	5356126
Dibenz(a,h)anthracene	ND	880	SW846 8310	12/27-01/03/96	5356126
Fluoranthene	ND	880	SW846 8310	12/27-01/03/96	5356126
Fluorene	ND	4,400	SW846 8310	12/27-01/03/96	5356126
Indeno(1,2,3-cd)pyrene	ND	880	SW846 8310	12/27-01/03/96	5356126
Naphthalene	ND	4,400	SW846 8310	12/27-01/03/96	5356126
Phenanthrene	ND	4,400	SW846 8310	12/27-01/03/96	5356126
Pyrene	ND	880	SW846 8310	12/27-01/03/96	5356126

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
1-Fluoronaphthalene	DIL	(3 - 130)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT
DIL (DILUTED OUT)

Quanterra Environmental Services

CLEAN HARBORS ANALYTICAL

P-26

WO #: C2F93106
LAB #: H5L210151-003
MATRIX: SOLID
DILUTION FACTOR: 10.00

DATE SAMPLED: 12/18/95
TIME SAMPLED: 11:10
DATE RECEIVED: 12/20/95
% MOISTURE: 66.4

- REQUESTED PARAMETERS -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Acenaphthene	ND	6,000	SW846 8310	12/27-01/03/96	535612
Acenaphthylene	ND	6,000	SW846 8310	12/27-01/03/96	535612
Anthracene	ND	6,000	SW846 8310	12/27-01/03/96	535612
Benzo(a)anthracene	ND	1,200	SW846 8310	12/27-01/03/96	535612
Benzo(a)pyrene	ND	1,200	SW846 8310	12/27-01/03/96	535612
Benzo(b)fluoranthene	ND	1,200	SW846 8310	12/27-01/03/96	535612
Benzo(ghi)perylene	ND	1,200	SW846 8310	12/27-01/03/96	535612
Benzo(k)fluoranthene	ND	1,200	SW846 8310	12/27-01/03/96	535612
Chrysene	ND	1,200	SW846 8310	12/27-01/03/96	535612
Dibenz(a,h)anthracene	ND	1,200	SW846 8310	12/27-01/03/96	535612
Fluoranthene	ND	1,200	SW846 8310	12/27-01/03/96	535612
Fluorene	ND	6,000	SW846 8310	12/27-01/03/96	535612
Indeno(1,2,3-cd)pyrene	ND	1,200	SW846 8310	12/27-01/03/96	535612
Naphthalene	ND	6,000	SW846 8310	12/27-01/03/96	535612
Phenanthrene	ND	6,000	SW846 8310	12/27-01/03/96	535612
Pyrene	ND	1,200	SW846 8310	12/27-01/03/96	535612

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
1-Fluoronaphthalene	DIL	(3 - 130)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT
DIL (DILUTED OUT)

Quanterra
Environmental Services

CLEAN HARBORS ANALYTICAL

SW-2

WO #: C2F8G106
LAB #: H5L210151-001
MATRIX: SOLID
DILUTION FACTOR: 100.00

DATE SAMPLED: 12/18/95
TIME SAMPLED: 10:00
DATE RECEIVED: 12/20/95
% MOISTURE: 59.1

REQUESTED PARAMETERS

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Acenaphthene	ND	49,000	SW846 8310	12/27-01/03/96	535612
Acenaphthylene	ND	49,000	SW846 8310	12/27-01/03/96	535612
Anthracene	ND	49,000	SW846 8310	12/27-01/03/96	535612
Benzo(a)anthracene	ND	9,800	SW846 8310	12/27-01/03/96	535612
Benzo(a)pyrene	ND	9,800	SW846 8310	12/27-01/03/96	535612
Benzo(b)fluoranthene	ND	9,800	SW846 8310	12/27-01/03/96	535612
Benzo(ghi)perylene	ND	9,800	SW846 8310	12/27-01/03/96	535612
Benzo(k)fluoranthene	ND	9,800	SW846 8310	12/27-01/03/96	535612
Chrysene	ND	9,800	SW846 8310	12/27-01/03/96	535612
Dibenz(a,h)anthracene	ND	9,800	SW846 8310	12/27-01/03/96	535612
Fluoranthene	ND	9,800	SW846 8310	12/27-01/03/96	535612
Fluorene	ND	49,000	SW846 8310	12/27-01/03/96	535612
Indeno(1,2,3-cd)pyrene	ND	9,800	SW846 8310	12/27-01/03/96	535612
Naphthalene	ND	49,000	SW846 8310	12/27-01/03/96	535612
Phenanthrene	ND	49,000	SW846 8310	12/27-01/03/96	535612
Pyrene	ND	9,800	SW846 8310	12/27-01/03/96	535612

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
1-Fluoronaphthalene	DIL	(3 - 130)

NOTE: DRY WEIGHT
ND NOT DETECTED AT THE STATED REPORTING LIMIT
DIL (DILUTED OUT)

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT

LAB #: H5L210151
QC BATCH: 5356126
WORK ORDER: C2FH0102
UNITS: ug/kg

PREPARATION DATE: 12/27/95
DATE ANALYZED: 1/03/96

- HPLC -

PARAMETER		TRUE SPIKE	MEASURED SPIKE	PERCENT RECOVERY	RECOVERY LIMITS
Acenaphthene	***	998	900	90	(25-125)
Acenaphthylene	***	1,000	850	85	(25-125)
Anthracene	***	994	750	75	(25-125)
Benzo(a)anthracene	***	99	92	93	(25-125)
Benzo(b)fluoranthene	***	100	93	93	(25-125)
Benzo(k)fluoranthene	***	50	47	94	(25-125)
Benzo(ghi)perylene	***	99	91	92	(25-125)
Benzo(a)pyrene	***	98	83	85	(25-125)
Chrysene	***	100	93	93	(25-125)
Dibenz(a,h)anthracene	***	99	93	94	(25-125)
Fluoranthene	***	98	84	86	(25-125)
Fluorene	***	998	900	90	(25-125)
Indeno(1,2,3-cd)pyrene	***	100	100	100	(25-125)
Naphthalene	***	998	860	86	(25-125)
Phenanthrene	***	991	880	89	(25-125)
Pyrene	***	98	90	92	(25-125)

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
1-Fluoronaphthalene	102	(3.0-130)

NOTE:
Calculations are performed before rounding to avoid round-off errors in calculated results.
*** Control parameters.

Quanterra
Environmental Services

METHOD BLANK REPORT

LAB #: H5L220000-126

- - - - - - - - - - - - - - - - SEMIVOLATILE ORGANICS, HPLC - - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/kg)	REPORTING LIMIT	PREPARATION - ANALYSIS DATE	QC BATCH
Acenaphthene	ND	200	12/27- 1/03/96	5356126
Acenaphthylene	ND	200	12/27- 1/03/96	5356126
Anthracene	ND	200	12/27- 1/03/96	5356126
Benzo(a)anthracene	ND	40	12/27- 1/03/96	5356126
Benzo(b)fluoranthene	ND	40	12/27- 1/03/96	5356126
Benzo(k)fluoranthene	ND	40	12/27- 1/03/96	5356126
Benzo(ghi)perylene	ND	40	12/27- 1/03/96	5356126
Benzo(a)pyrene	ND	40	12/27- 1/03/96	5356126
Chrysene	ND	40	12/27- 1/03/96	5356126
Dibenz(a,h)anthracene	ND	40	12/27- 1/03/96	5356126
Fluoranthene	ND	40	12/27- 1/03/96	5356126
Fluorene	ND	200	12/27- 1/03/96	5356126
Indeno(1,2,3-cd)pyrene	ND	40	12/27- 1/03/96	5356126
Naphthalene	ND	200	12/27- 1/03/96	5356126
Phenanthrene	ND	200	12/27- 1/03/96	5356126
Pyrene	ND	40	12/27- 1/03/96	5356126

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
1-Fluoronaphthalene	73	(3 - 130)

NOTE:

ND (NONE DETECTED)

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-12
Sample Type: Soil

CHES Lab #: 9512202-02A
Date Received: 12/18/95

Volatile Organics - System E
by EPA Method 8260 (ref. c)

Analysis Date: 12/30/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	38000	ND	1,2-Dichloropropane	9500	ND
Benzene	9500	ND	cis-1,3-Dichloropropene	9500	ND
Bromodichloromethane	9500	ND	trans-1,3-Dichloropropene	9500	ND
Bromoform	9500	ND	Ethylbenzene	9500	ND
Bromomethane	19000	ND	2-Hexanone	9500	ND
2-Butanone	38000	ND	Methylene chloride	38000	ND
Carbon disulfide	19000	ND	4-Methyl-2-pentanone	9500	ND
Carbon tetrachloride	9500	ND	Methyl-t-butylether (MTBE)	19000	ND
Chlorobenzene	9500	ND	Styrene	9500	ND
Chloroethane	19000	ND	1,1,2,2-Tetrachloroethane	9500	ND
2-Chloroethyl vinyl ether	19000	ND	Tetrachloroethene	9500	ND
Chloroform	9500	ND	Toluene	9500	ND
Chloromethane	19000	ND	1,1,1-Trichloroethane	9500	ND
Dibromochloromethane	9500	ND	1,1,2-Trichloroethane	9500	ND
Dibromoethane (EDB)	9500	ND	Trichloroethene	9500	ND
1,1-Dichloroethane	9500	ND	Trichlorofluoromethane	9500	ND
1,2-Dichloroethane	9500	ND	Vinyl acetate	19000	ND
1,1-Dichloroethene	9500	ND	Vinyl chloride	19000	ND
trans-1,2-Dichloroethene	9500	ND	Total xylenes	9500	53,000

Notes
ND = Below practical quantitation limit (PQL)
* = ug/kg
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	111 %	72-122%	70-121%
Toluene-d8:	118 %	86-123%	84-138%
p-BFB:	101 %	83-123%	59-113%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-12
Sample Type: Soil

CHAS Lab #: 9512202-020
Date Received: 12/18/95

Organochlorine Pesticides
by EPA Method 3540/8080 (ref. c)

Extraction Date: 12/19/95
Analysis Date: 12/27/95

Parameter	PQL	Concentration	Units
Alpha-BHC	8.0	ND	mg/kg
Beta-BHC	8.0	ND	mg/kg
Delta-BHC	8.0	ND	mg/kg
Lindane (Gamma-BHC)	8.0	ND	mg/kg
Heptachlor	8.0	ND	mg/kg
Aldrin	8.0	ND	mg/kg
Heptachlor Epoxide	8.0	ND	mg/kg
Endosulfan I	8.0	ND	mg/kg
4,4'-DDE	8.0	ND	mg/kg
Dieldrin	8.0	ND	mg/kg
Endrin	8.0	ND	mg/kg
4,4'-DDD	8.0	ND	mg/kg
Endosulfan II	8.0	ND	mg/kg
4,4'-DDT	8.0	ND	mg/kg
Endrin Aldehyde	8.0	ND	mg/kg
Endosulfan Sulfate	8.0	ND	mg/kg
Methoxychlor	8.0	ND	mg/kg
Endrin Ketone	8.0	ND	mg/kg
Chlordane	16	ND	mg/kg
Toxaphene	32	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC Surrogate Recovery:		Acceptance Criteria: Soil (EPA 3540)
Hexabromobenzene	: NA	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-12
Sample Type: Soil

CHES Lab #: 9512202-020
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 12/19/95
Analysis Date: 12/27/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	16	ND	mg/kg
PCB - Aroclor 1221	16	ND	mg/kg
PCB - Aroclor 1232	16	ND	mg/kg
PCB - Aroclor 1242	16	ND	mg/kg
PCB - Aroclor 1248	16	ND	mg/kg
PCB - Aroclor 1254	16	78	mg/kg
PCB - Aroclor 1260	16	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	NA	78-148%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-12
Sample Type: Soil

CHES Lab #: 9512202-02M
Date Received: 12/18/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Arsenic - Total	10	ND	12/20/95	12/20/95	3050/6010(c)
Cadmium - Total	0.65	ND	12/20/95	12/20/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-12
Sample Type: Soil

CHES Lab #: 9512202-02M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	1.01	ND	mg/kg	01/10/96	9010(c)
Cyanide, Chlorine Amenable	10.0	ND	mg/kg	01/10/96	9010(c)
Total Solids	--	49.0	%	12/19/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.
Cyanide analysis performed by TMA, Waltham, MA.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-26
Sample Type: Soil

CHES Lab #: 9512202-03A
Date Received: 12/18/95

Volatile Organics - System E
by EPA Method 8260 (ref. c)

Analysis Date: 12/30/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	920	ND	1,2-Dichloropropane	230	ND
Benzene	230	ND	cis-1,3-Dichloropropene	230	ND
Bromodichloromethane	230	ND	trans-1,3-Dichloropropene	230	ND
Bromoform	230	ND	Ethylbenzene	230	ND
Bromomethane	460	ND	2-Hexanone	230	ND
2-Butanone	920	ND	Methylene chloride	920	ND
Carbon disulfide	460	ND	4-Methyl-2-pentanone	230	ND
Carbon tetrachloride	230	ND	Methyl-t-butylether (MTBE)	460	ND
Chlorobenzene	230	ND	Styrene	230	ND
Chloroethane	460	ND	1,1,2,2-Tetrachloroethane	230	ND
2-Chloroethyl vinyl ether	460	ND	Tetrachloroethene	230	ND
Chloroform	230	ND	Toluene	230	ND
Chloromethane	460	ND	1,1,1-Trichloroethane	230	ND
Dibromochloromethane	230	ND	1,1,2-Trichloroethane	230	ND
Dibromoethane (EDB)	230	ND	Trichloroethene	230	ND
1,1-Dichloroethane	230	ND	Trichlorofluoromethane	230	ND
1,2-Dichloroethane	230	ND	Vinyl acetate	460	ND
1,1-Dichloroethene	230	ND	Vinyl chloride	460	ND
trans-1,2-Dichloroethene	230	ND	Total xylenes	230	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/kg

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	106 %	72-122%	70-121%
Toluene-d8:	118 %	86-123%	84-138%
p-BFB:	102 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-26
Sample Type: Soil

CHAS Lab #: 9512202-030
Date Received: 12/18/95

Organochlorine Pesticides
by EPA Method 3540/8080 (ref. c)

Extraction Date: 12/19/95
Analysis Date: 12/27/95

Parameter	PQL	Concentration	Units
Alpha-BHC	12	ND	mg/kg
Beta-BHC	12	ND	mg/kg
Delta-BHC	12	ND	mg/kg
Lindane (Gamma-BHC)	12	ND	mg/kg
Heptachlor	12	ND	mg/kg
Aldrin	12	ND	mg/kg
Heptachlor Epoxide	12	ND	mg/kg
Endosulfan I	12	ND	mg/kg
4,4'-DDE	12	ND	mg/kg
Dieldrin	12	ND	mg/kg
Endrin	12	ND	mg/kg
4,4'-DDD	12	ND	mg/kg
Endosulfan II	12	ND	mg/kg
4,4'-DDT	12	ND	mg/kg
Endrin Aldehyde	12	ND	mg/kg
Endosulfan Sulfate	12	ND	mg/kg
Methoxychlor	12	ND	mg/kg
Endrin Ketone	12	ND	mg/kg
Chlordane	24	ND	mg/kg
Toxaphene	49	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC Surrogate Recovery:		Acceptance Criteria: Soil (EPA 3540)
Hexabromobenzene	: NA	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-26
Sample Type: Soil

CHES Lab #: 9512202-030
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 12/19/95
Analysis Date: 12/27/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	2.4	ND	mg/kg
PCB - Aroclor 1221	2.4	ND	mg/kg
PCB - Aroclor 1232	2.4	ND	mg/kg
PCB - Aroclor 1242	2.4	ND	mg/kg
PCB - Aroclor 1248	2.4	ND	mg/kg
PCB - Aroclor 1254	2.4	7.0	mg/kg
PCB - Aroclor 1260	2.4	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	NA	78-148%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-26
Sample Type: Soil

CHES Lab #: 9512202-03M
Date Received: 12/18/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Arsenic - Total	20	ND	12/20/95	12/20/95	3050/6010(c)
Cadmium - Total	1.0	ND	12/20/95	12/20/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-26
Sample Type: Soil

CHES Lab #: 9512202-03M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.98	ND	mg/kg	01/10/96	9010(c)
Cyanide, Chlorine Amenable	10.0	ND	mg/kg	01/10/96	9010(c)
Total Solids	--	33.6	%	12/19/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.
Cyanide analysis performed by TMA, Waltham, MA.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-31
Sample Type: Soil

CHES Lab #: 9512202-04F
Date Received: 12/18/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	1.5	1,500	01/05/96	01/09/96	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-31
Sample Type: Soil

CHES Lab #: 9512202-04F
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	65.5	%	12/19/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-32
Sample Type: Soil

CHES Lab #: 9512202-05F
Date Received: 12/18/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Chromium - Total	2.0	7,500	01/05/96	01/09/96	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-32
Sample Type: Soil

CHES Lab #: 9512202-05F
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Total Solids	--	60.4	%	12/19/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-24
Sample Type: Soil

CHES Lab #: 9512202-06A
Date Received: 12/18/95

Volatile Organics - System E
by EPA Method 8260 (ref. c)

Analysis Date: 12/30/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	990	ND	1,2-Dichloropropane	250	ND
Benzene	250	ND	cis-1,3-Dichloropropene	250	ND
Bromodichloromethane	250	ND	trans-1,3-Dichloropropene	250	ND
Bromoform	250	ND	Ethylbenzene	250	ND
Bromomethane	490	ND	2-Hexanone	250	ND
2-Butanone	990	ND	Methylene chloride	990	ND
Carbon disulfide	490	ND	4-Methyl-2-pentanone	250	ND
Carbon tetrachloride	250	ND	Methyl-t-butylether (MTBE)	490	ND
Chlorobenzene	250	ND	Styrene	250	ND
Chloroethane	490	ND	1,1,2,2-Tetrachloroethane	250	ND
2-Chloroethyl vinyl ether	490	ND	Tetrachloroethene	250	ND
Chloroform	250	ND	Toluene	250	ND
Chloromethane	490	ND	1,1,1-Trichloroethane	250	ND
Dibromochloromethane	250	ND	1,1,2-Trichloroethane	250	ND
Dibromoethane (EDB)	250	ND	Trichloroethene	250	ND
1,1-Dichloroethane	250	ND	Trichlorofluoromethane	250	ND
1,2-Dichloroethane	250	ND	Vinyl acetate	490	ND
1,1-Dichloroethene	250	ND	Vinyl chloride	490	ND
trans-1,2-Dichloroethene	250	ND	Total xylenes	250	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/kg

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	121 %	72-122%	70-121%
Toluene-d8:	118 %	86-123%	84-138%
p-BFB:	101 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-24
Sample Type: Soil

CHAS Lab #: 9512202-060
Date Received: 12/18/95

Organochlorine Pesticides
by EPA Method 3540/8080 (ref. c)

Extraction Date: 12/19/95
Analysis Date: 12/26/95

Parameter	PQL	Concentration	Units
Alpha-BHC	1.0	ND	mg/kg
Beta-BHC	1.0	ND	mg/kg
Delta-BHC	1.0	ND	mg/kg
Lindane (Gamma-BHC)	1.0	ND	mg/kg
Heptachlor	1.0	ND	mg/kg
Aldrin	1.0	ND	mg/kg
Heptachlor Epoxide	1.0	ND	mg/kg
Endosulfan I	1.0	ND	mg/kg
4,4'-DDE	1.0	ND	mg/kg
Dieldrin	1.0	ND	mg/kg
Endrin	1.0	ND	mg/kg
4,4'-DDD	1.0	ND	mg/kg
Endosulfan II	1.0	ND	mg/kg
4,4'-DDT	1.0	ND	mg/kg
Endrin Aldehyde	1.0	ND	mg/kg
Endosulfan Sulfate	1.0	ND	mg/kg
Methoxychlor	1.0	ND	mg/kg
Endrin Ketone	1.0	ND	mg/kg
Chlordane	2.0	ND	mg/kg
Toxaphene	3.9	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight
NA = Due to dilutions required to analyze the sample, the surrogate recovery was unable to be calculated.

QA/QC Surrogate Recovery:		Acceptance Criteria: Soil (EPA 3540)
Hexabromobenzene	: NA	78-148%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-24
Sample Type: Soil

CHES Lab #: 9512202-060
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 3540/8080 (ref. c)

Extraction Date: 12/19/95
Analysis Date: 12/27/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	0.2	ND	mg/kg
PCB - Aroclor 1221	0.2	ND	mg/kg
PCB - Aroclor 1232	0.2	ND	mg/kg
PCB - Aroclor 1242	0.2	ND	mg/kg
PCB - Aroclor 1248	0.2	ND	mg/kg
PCB - Aroclor 1254	0.2	0.4	mg/kg
PCB - Aroclor 1260	0.2	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	87.3%	78-148%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-24
Sample Type: Soil

CHES Lab #: 9512202-06M
Date Received: 12/18/95

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Arsenic - Total	20	ND	12/20/95	12/20/95	3050/6010(c)
Cadmium - Total	0.79	ND	12/20/95	12/20/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: P-24
Sample Type: Soil

CHES Lab #: 9512202-06M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.94	ND	mg/kg	01/10/96	9010(c)
Cyanide, Chlorine Amenable	10.0	ND	mg/kg	01/10/96	9010(c)
Total Solids	--	42.2	%	12/19/95	2540G(b)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.
Cyanide analysis performed by TMA, Waltham, MA.

CleanHarbors

QUALITY CONTROL

REPORT OF ANALYSIS

CHES LAB. NO. 9512202

The attached quality control data were generated during the analysis of these samples. All results have been generated in accordance with the procedures as stated in the Clean Harbors Environmental Services, Inc. Quality Assurance/Quality Control Manual and pertinent standard operating procedures, which are available for review. The attached has been submitted for informational purposes only.

CleanHarbors

Volatile Organics Blank - System E
by EPA Method 624 (ref. f)

Analysis Date: 12/30/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-Pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 105%
Toluene-d8: 117%
p-BFB: 100%

Acceptance Criteria:

Water	Soil
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9512202

Polychlorinated Biphenyls (PCBs) Blank
by EPA Method 3540/8080 (ref. c)

Extraction Date: 12/19/95
Analysis Date: 12/21/95

Parameter	**PQL**	**Concentration**	**Units**
PCB - Aroclor 1016	0.1	ND	mg/kg
PCB - Aroclor 1221	0.1	ND	mg/kg
PCB - Aroclor 1232	0.1	ND	mg/kg
PCB - Aroclor 1242	0.1	ND	mg/kg
PCB - Aroclor 1248	0.1	ND	mg/kg
PCB - Aroclor 1254	0.1	ND	mg/kg
PCB - Aroclor 1260	0.1	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	113%	78-148%

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9512202

Organochlorine Pesticides Blank
by EPA Method 3540/8080 (ref. c)

Extraction Date: 12/19/95
Analysis Date: 12/21/95

Parameter	PQL	Concentration	Units
Alpha - BHC	0.05	ND	mg/kg
Beta - BHC	0.05	ND	mg/kg
Delta - BHC	0.05	ND	mg/kg
Lindane (Gamma - BHC)	0.05	ND	mg/kg
Heptachlor	0.05	ND	mg/kg
Aldrin	0.05	ND	mg/kg
Heptachlor Epoxide	0.05	ND	mg/kg
Endosulfan I	0.05	ND	mg/kg
4,4'-DDE	0.05	ND	mg/kg
Dieldrin	0.05	ND	mg/kg
Endrin	0.05	ND	mg/kg
4,4'-DDD	0.05	ND	mg/kg
Endosulfan II	0.05	ND	mg/kg
4,4'-DDT	0.05	ND	mg/kg
Endrin Aldehyde	0.05	ND	mg/kg
Endosulfan Sulfate	0.05	ND	mg/kg
Methoxychlor	0.05	ND	mg/kg
Endrin Ketone	0.05	ND	mg/kg
Chlordane	0.1	ND	mg/kg
Toxaphene	0.2	ND	mg/kg

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight

QA/QC Surrogate Recovery		Acceptance Criteria Water	Acceptance Criteria Soil
Hexabromobenzene:	113%	34-104%	78-148%

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9512202

BLANK ANALYSIS

METALS

Parameter	PQL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Arsenic - Total	0.2	ND	12/20/95	12/20/95	3050/6010(c)
Cadmium - Total	0.01	ND	12/20/95	12/20/95	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9512202

BLANK ANALYSIS

METALS

Parameter	**PQL***	**Result***	**Digestion Date**	**Analysis Date**	**Method Number and Reference**
Chromium - Total	0.03	ND	01/05/96	01/09/96	3050/6010(c)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

CleanHarbors

/N 12/21

Clean Harbors Analytical Services, Inc., 325 Wood Rd., Braintree, MA 02184 | CHAIN OF CUSTODY RECORD | Sample Custodian — (617) 849-1800 | Page 1 of 1

Client: CHES Project Name: MURPHY'S WASTE OIL Work Order/P.O. #: EN-170 Date: 12-18-95

Report To: JAY MCCREERY Address: 12 MERCER RD., NATICK, MA Phone #: X6399

Date Samples Collected: 12/18/95 by: P. NICKWONGER Date Samples Received:

Airbill/Bill of Lading? Y N NOTE: Samples received unpreserved will be preserved upon arrival at CHAS. Samples were: Preserved Unpreserved

Sample I.D.	Sampling Information: Date	Time	Station Location	Sample Matrix	Pesticides	VOC 8240	PAHs by HPLC	Total Chromium	Total Arsenic	Total Cadmium	Total Cyanide	Amenable Cyanide	# of con.	CHAS Sample # P 12/18/95 0512202
SW-2	12/18	10:00	0-2'	SOIL			1						1	01Q, A
P-12	↓	9:15	↓	↓	1	1	1		1	1	1	1	2	02Q, ~~N, A, F, H~~ M, O, A
P-26	↓	11:10	↓	↓	1	1	1		1	1	1	1	2	03Q, ~~N, A, F, H~~ M, O, A
P-31	↓	12:30	↓	↓				1					1	04F
P-32	↓	12:05	↓	↓				1					1	05F
P-24	↓	10:45	↓	↓	1	1	1		1	1	1	1	2	06Q, ~~N, A, F, H~~ M, O, A

VOA Vial								
Glass Bottle								
Plastic Bottle								
Pres.	C	C	C	C	C	C	C	C
Volume								

Relinquished by: [signature] Date: 12-18-95 Time: 1820

Received by: [signature] Date: 12/18/95 Time: 6:15

Relinquished by: Date: Time:

Received by: Date: Time:

Preservation Key: A — Acidified with ____ B — Filtered, C — Sample chilled, D— NaOH, E — NaThiosulfate, W — Sample Ambient, F — Other

REMARKS/COMMENTS: (Sample storage, nonstandard bottles, cautions, special instructions)

Standard laboratory turnaround time is 2 weeks from date of receipt. Accelerated turnaround may be assessed a surcharge.
Accelerated turnaround requested:
Confirmed by: Surcharge:

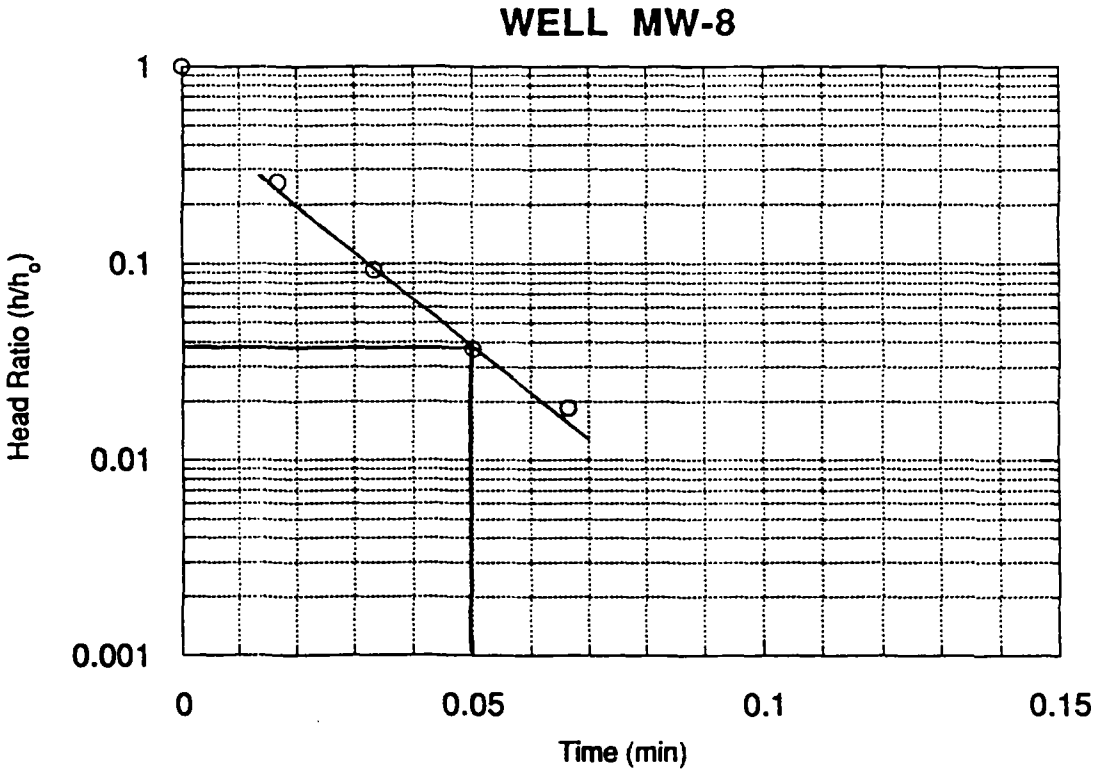
Location of samples: RIDRY, RY

Turnaround: 24 Hrs. 48 Hrs. 1 Week 2 Weeks Other:

OFFICE COPY

-CHI 119

APP. F



$L = 85.6$ cm
$T_o = 3.0$ sec
$K = 2.85 \times 10^{-2}$ cm/sec

NOTES:

1. Rising head slug test performed by Clean Harbors on November 17, 1995.
2. L is average length of screen through which water passed during the test.
3. T_o is time of recovery to 37 percent of initial change ($h/h_o = 0.37$).

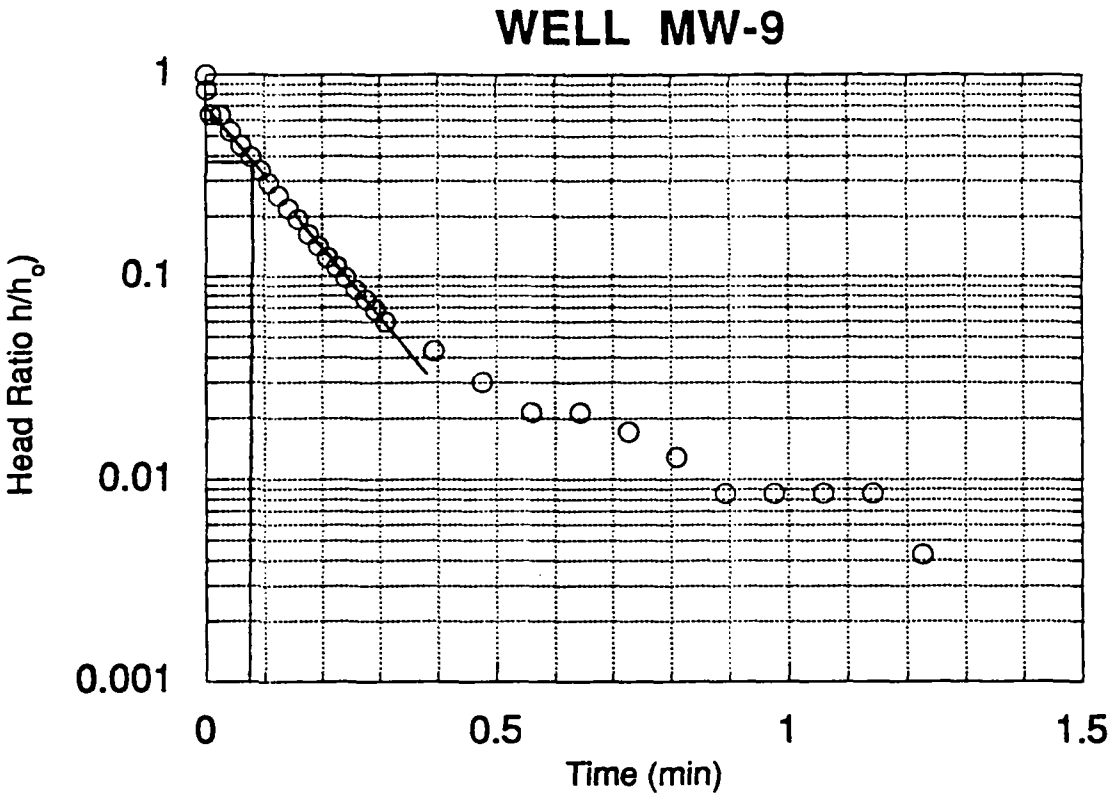
ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE
A	PRELIMINARY				

CleanHarbors
Environmental Services, Inc.
Remedial Technologies Division
12 MERCER ROAD
NATICK, MASSACHUSETTS 01760
(508) 650-6910

MURPHY'S WASTE OIL SERVICE, INC.
252 SALEM STREET
WOBURN, MASSACHUSETTS

WELL MW-8 SLUG TEST

PROJECT NO. EN-170
DWG. NO.
SCALE: NA



L = 165.2 cm
T_o = 5.0 sec
K = 1.16 x 10^{-2} cm/sec

NOTES:

1. *Rising head slug test performed by Clean Harbors on November 17, 1995.*
2. L is average length of screen through which water passed during the test.
3. T_o is time of recovery to 37 percent of initial change (h/h_o = 0.37).

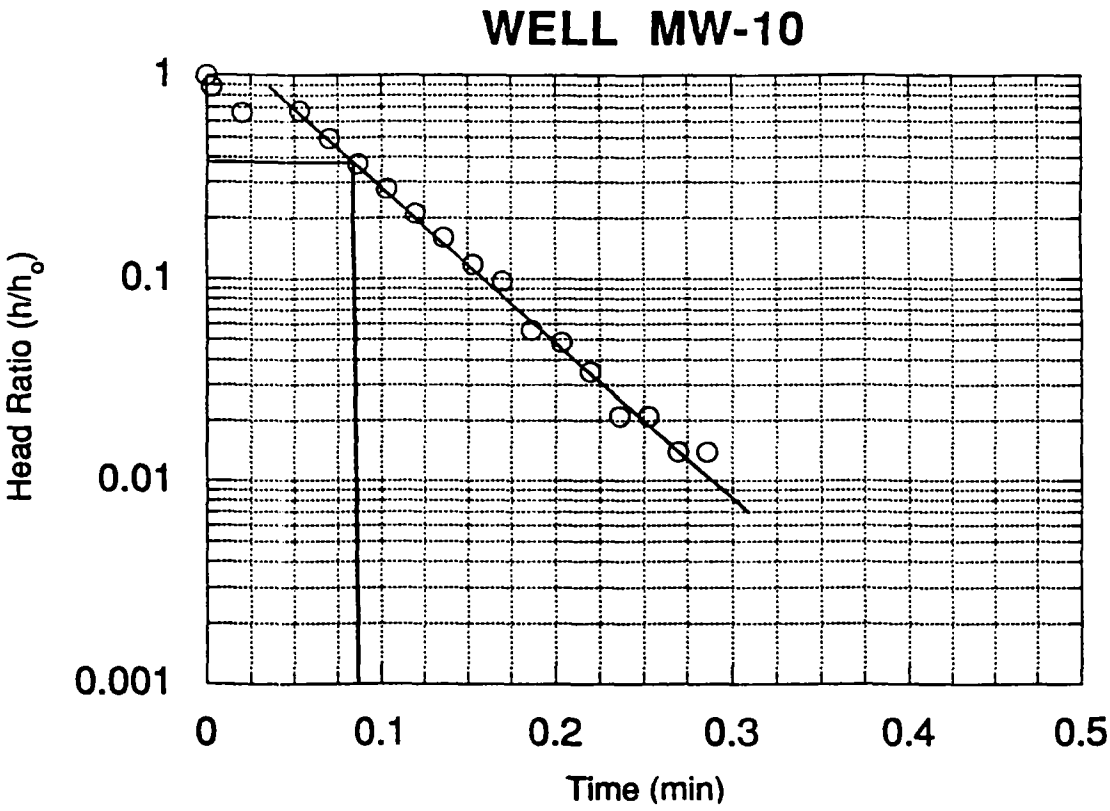
ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE
A	PRELIMINARY				

CleanHarbors
Environmental Services, Inc.
Remedial Technologies Division
12 MERCER ROAD
NATICK, MASSACHUSETTS 01760
(508) 650-6910

MURPHY'S WASTE OIL SERVICE, INC.
252 SALEM STREET
WOBURN, MASSACHUSETTS

WELL MW-9 SLUG TEST

PROJECT NO. EN-170
SCALE: NA
DWG. NO.



L = 152.4 cm
T_o = 5.16 sec
K = 1.18 x 10^{-2} cm/sec

NOTES:

1. Rising head slug test performed by Clean Harbors on November 17, 1995.
2. L is average length of screen through which water passed during the test.
3. T_o is time of recovery to 37 percent of initial change (h/h_o = 0.37).

ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE
A	PRELIMINARY				

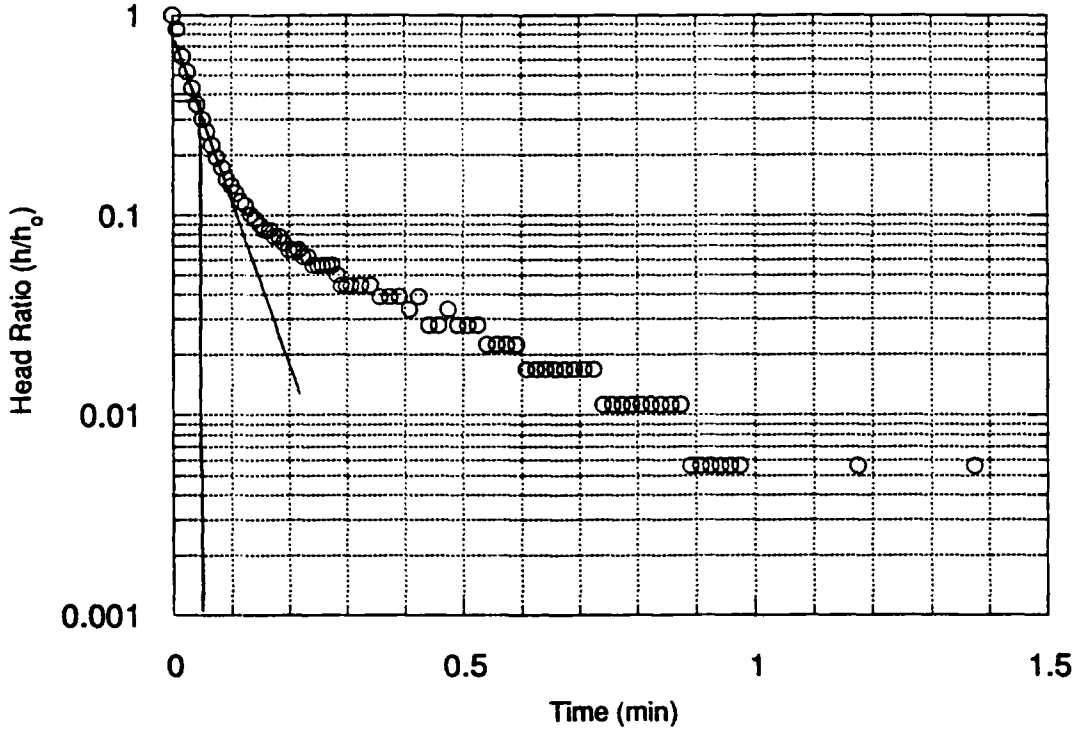
CleanHarbors
Environmental Services, Inc.
Remedial Technologies Division
12 MERCER ROAD
NATICK, MASSACHUSETTS 01760
(508) 650-6910

MURPHY'S WASTE OIL SERVICE, INC.
252 SALEM STREET
WOBURN, MASSACHUSETTS

WELL MW-10 SLUG TEST

PROJECT NO. EN-170
SCALE: NA
DWG. NO.

WELL MW-11



$L = 182.6$ cm
$T_0 = 2.41$ sec
$K = 2.25 \times 10^{-2}$ cm/sec

NOTES:

1. Rising head slug test performed by Clean Harbors on November 17, 1995.
2. L is average length of screen through which water passed during the test.
3. T_0 is time of recovery to 37 percent of initial change ($h/h_0 = 0.37$).

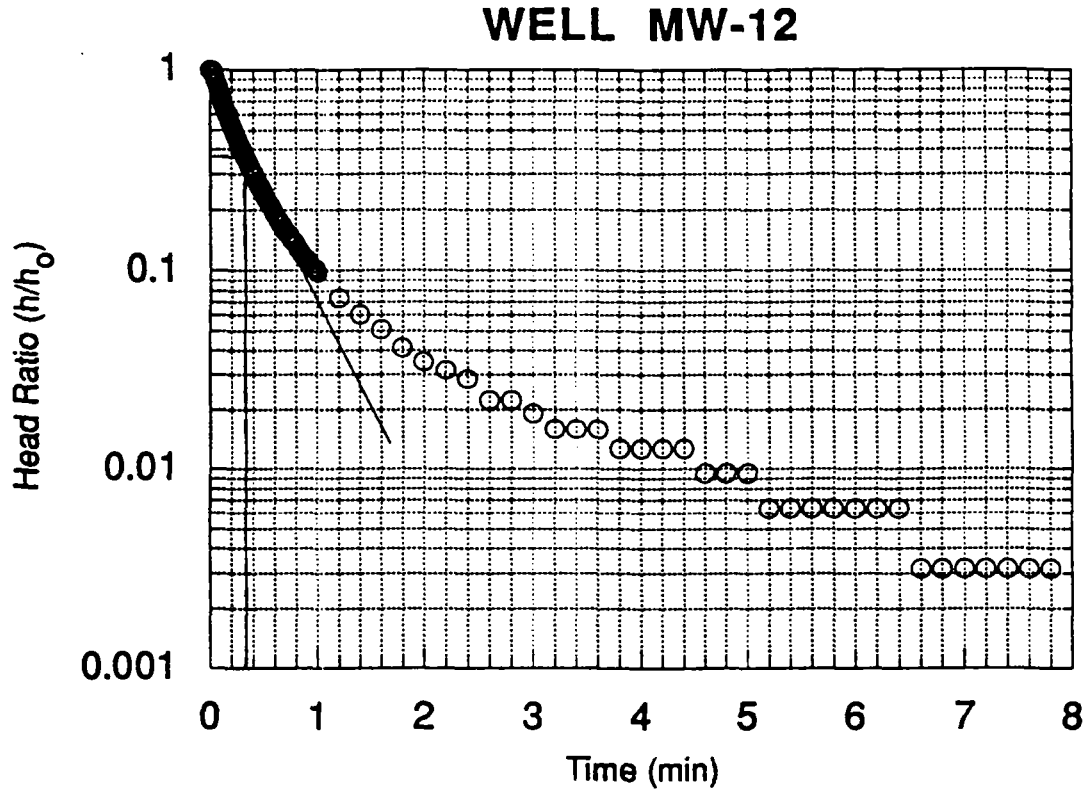
ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE
A	PRELIMINARY				

CleanHarbors
Environmental Services, Inc.
Remedial Technologies Division
12 MERCER ROAD
NATICK, MASSACHUSETTS 01760
(508) 650-6910

MURPHY'S WASTE OIL SERVICE, INC.
252 SALEM STREET
WOBURN, MASSACHUSETTS

WELL MW-11 SLUG TEST

PROJECT NO. EN-170
SCALE: NA
DWG. NO.



L = 91.4 cm
T_o = 19.24 sec
K = 2.64 x 10^{-3} cm/sec

NOTES:

1. Rising head slug test performed by Clean Harbors on November 17, 1995.
2. L is average length of screen through which water passed during the test.
3. T_o is time of recovery to 37 percent of initial change (h/h_o = 0.37).

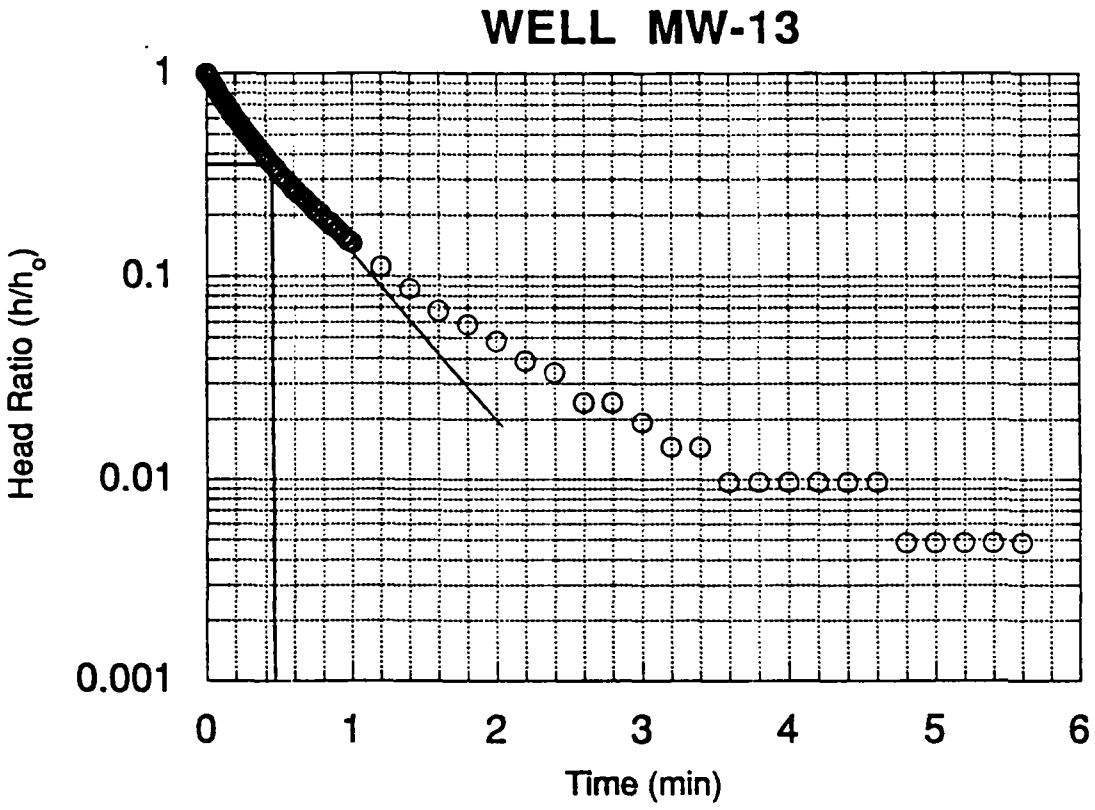
ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE
A	PRELIMINARY				

CleanHarbors
Environmental Services, Inc.
Remedial Technologies Division
12 MERCER ROAD
NATICK, MASSACHUSETTS 01760
(508) 650-6910

MURPHY'S WASTE OIL SERVICE, INC.
252 SALEM STREET
WOBURN, MASSACHUSETTS

WELL MW-12 SLUG TEST

PROJECT NO. EN-170
SCALE: NA
DWG. NO.



L = 91.4 cm
T_o = 25.47 sec
K = 2.00 x 10^{-3} cm/sec

NOTES:

1. Rising head slug test performed by Clean Harbors on November 17, 1995.
2. L is average length of screen through which water passed during the test.
3. T_o is time of recovery to 37 percent of initial change (h/h_o = 0.37).

ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE
A	PRELIMINARY				

CleanHarbors
Environmental Services, Inc.
Remedial Technologies Division
12 MERCER ROAD
NATICK, MASSACHUSETTS 01760
(508) 650-6910

MURPHY'S WASTE OIL SERVICE, INC.
252 SALEM STREET
WOBURN, MASSACHUSETTS

WELL MW-13 SLUG TEST

PROJECT NO. EN-170
SCALE: NA
DWG. NO.

SLUG TEST DATA - WELL MW-8

Time (min)	Time (sec)	Elevation (feet)	Change (h)	Head Ratio (h/h_o)
0.0000	0.00	44.59	0.540	1.0000
0.0166	1.00	44.99	0.140	0.2593
0.0333	2.00	45.08	0.050	0.0926
0.0500	3.00	45.11	0.020	0.0370
0.0666	4.00	45.12	0.010	0.0185
0.0833	5.00	45.13	0.000	0.0000
0.1000	6.00	45.13	0.000	0.0000
0.1166	7.00	45.13	0.000	0.0000
0.1333	8.00	45.13	0.000	0.0000

SLUG TEST DATA - WELL MW-9

Time (min)	Time (sec)	Elevation (feet)	Change (h)	Head Ratio (h/h_0)
0.0000	0.00	42.90	2.340	1.0000
0.0033	0.20	43.29	1.950	0.8333
0.0100	0.60	43.75	1.490	0.6368
0.0267	1.60	43.76	1.480	0.6325
0.0433	2.60	44.01	1.230	0.5256
0.0600	3.60	44.19	1.050	0.4487
0.0767	4.60	44.32	0.920	0.3932
0.0933	5.60	44.45	0.790	0.3376
0.1100	6.60	44.56	0.680	0.2906
0.1267	7.60	44.65	0.590	0.2521
0.1433	8.60	44.73	0.510	0.2179
0.1600	9.60	44.79	0.450	0.1923
0.1767	10.60	44.86	0.380	0.1624
0.1933	11.60	44.91	0.330	0.1410
0.2097	12.58	44.95	0.290	0.1239
0.2267	13.60	44.98	0.260	0.1111
0.2433	14.60	45.01	0.230	0.0983
0.2600	15.60	45.04	0.200	0.0855
0.2767	16.60	45.06	0.180	0.0769
0.2933	17.60	45.08	0.160	0.0684
0.3100	18.60	45.10	0.140	0.0598
0.3934	23.60	45.14	0.100	0.0427
0.4767	28.60	45.17	0.070	0.0299
0.5600	33.60	45.19	0.050	0.0214
0.6434	38.60	45.19	0.050	0.0214
0.7267	43.60	45.20	0.040	0.0171
0.8100	48.60	45.21	0.030	0.0128
0.8934	53.60	45.22	0.020	0.0085
0.9767	58.60	45.22	0.020	0.0085
1.0600	63.60	45.22	0.020	0.0085
1.1434	68.60	45.22	0.020	0.0085
1.2267	73.60	45.23	0.010	0.0043
1.3067	78.40	45.24	0.000	0.0000
1.3933	83.60	45.24	0.000	0.0000
1.4767	88.60	45.24	0.000	0.0000

SLUG TEST DATA - WELL MW-10

Time (min)	Time (sec)	Elevation (feet)	Change (h)	Head Ratio (h/h_o)
0.0000	0.00	43.93	1.440	1.0000
0.0033	0.20	44.10	1.270	0.8819
0.0200	1.20	44.42	0.950	0.6597
0.0533	3.20	44.40	0.970	0.6736
0.0700	4.20	44.66	0.710	0.4931
0.0866	5.20	44.84	0.530	0.3681
0.1033	6.20	44.97	0.400	0.2778
0.1200	7.20	45.07	0.300	0.2083
0.1366	8.20	45.14	0.230	0.1597
0.1533	9.20	45.20	0.170	0.1181
0.1700	10.20	45.23	0.140	0.0972
0.1866	11.20	45.29	0.080	0.0556
0.2033	12.20	45.30	0.070	0.0486
0.2200	13.20	45.32	0.050	0.0347
0.2366	14.20	45.34	0.030	0.0208
0.2533	15.20	45.34	0.030	0.0208
0.2700	16.20	45.35	0.020	0.0139
0.2866	17.20	45.35	0.020	0.0139
0.3033	18.20	45.37	0.000	0.0000

SLUG TEST DATA - WELL MW-11

Time (min)	Time (sec)	Elevation (feet)	Change (h)	Head Ratio (h/h_o)
0.0000	0.00	42.24	1.790	1.0000
0.0083	0.50	42.50	1.530	0.8547
0.0166	1.00	42.92	1.110	0.6201
0.0250	1.50	43.10	0.930	0.5196
0.0333	2.00	43.26	0.770	0.4302
0.0416	2.50	43.39	0.640	0.3575
0.0500	3.00	43.49	0.540	0.3017
0.0583	3.50	43.56	0.470	0.2626
0.0666	4.00	43.63	0.400	0.2235
0.0750	4.50	43.68	0.350	0.1955
0.0833	5.00	43.72	0.310	0.1732
0.0916	5.50	43.76	0.270	0.1508
0.1000	6.00	43.78	0.250	0.1397
0.1083	6.50	43.80	0.230	0.1285
0.1166	7.00	43.82	0.210	0.1173
0.1250	7.50	43.83	0.200	0.1117
0.1333	8.00	43.85	0.180	0.1006
0.1416	8.50	43.86	0.170	0.0950
0.1500	9.00	43.87	0.160	0.0894
0.1583	9.50	43.88	0.150	0.0838
0.1666	10.00	43.88	0.150	0.0838
0.1750	10.50	43.89	0.140	0.0782
0.1833	11.00	43.89	0.140	0.0782
0.1916	11.50	43.90	0.130	0.0726
0.2000	12.00	43.91	0.120	0.0670
0.2083	12.50	43.91	0.120	0.0670
0.2166	13.00	43.91	0.120	0.0670
0.2250	13.50	43.92	0.110	0.0615
0.2333	14.00	43.92	0.110	0.0615
0.2416	14.50	43.93	0.100	0.0559
0.2500	15.00	43.93	0.100	0.0559
0.2583	15.50	43.93	0.100	0.0559
0.2666	16.00	43.93	0.100	0.0559
0.2750	16.50	43.93	0.100	0.0559
0.2833	17.00	43.94	0.090	0.0503
0.2916	17.50	43.95	0.080	0.0447
0.3000	18.00	43.95	0.080	0.0447
0.3083	18.50	43.95	0.080	0.0447
0.3250	19.50	43.95	0.080	0.0447
0.3416	20.50	43.95	0.080	0.0447
0.3583	21.50	43.96	0.070	0.0391
0.3750	22.50	43.96	0.070	0.0391
0.3916	23.50	43.96	0.070	0.0391
0.4083	24.50	43.97	0.060	0.0335
0.4250	25.50	43.96	0.070	0.0391
0.4416	26.50	43.98	0.050	0.0279

SLUG TEST DATA - WELL MW-11
(continued)

Time (min)	Time (sec)	Elevation (feet)	Change (h)	Head Ratio (h/h_o)
0.4583	27.50	43.98	0.050	0.0279
0.4750	28.50	43.97	0.060	0.0335
0.4916	29.50	43.98	0.050	0.0279
0.5083	30.50	43.98	0.050	0.0279
0.5250	31.50	43.98	0.050	0.0279
0.5416	32.50	43.99	0.040	0.0223
0.5583	33.50	43.99	0.040	0.0223
0.5750	34.50	43.99	0.040	0.0223
0.5916	35.50	43.99	0.040	0.0223
0.6083	36.50	44.00	0.030	0.0168
0.6250	37.50	44.00	0.030	0.0168
0.6416	38.50	44.00	0.030	0.0168
0.6583	39.50	44.00	0.030	0.0168
0.6750	40.50	44.00	0.030	0.0168
0.6916	41.50	44.00	0.030	0.0168
0.7080	42.48	44.00	0.030	0.0168
0.7250	43.50	44.00	0.030	0.0168
0.7416	44.50	44.01	0.020	0.0112
0.7583	45.50	44.01	0.020	0.0112
0.7750	46.50	44.01	0.020	0.0112
0.7916	47.50	44.01	0.020	0.0112
0.8083	48.50	44.01	0.020	0.0112
0.8250	49.50	44.01	0.020	0.0112
0.8416	50.50	44.01	0.020	0.0112
0.8583	51.50	44.01	0.020	0.0112
0.8750	52.50	44.01	0.020	0.0112
0.8916	53.50	44.02	0.010	0.0056
0.9083	54.50	44.02	0.010	0.0056
0.9250	55.50	44.02	0.010	0.0056
0.9416	56.50	44.02	0.010	0.0056
0.9583	57.50	44.02	0.010	0.0056
0.9750	58.50	44.02	0.010	0.0056
1.1750	70.50	44.02	0.010	0.0056
1.3750	82.50	44.02	0.010	0.0056
1.5750	94.50	44.02	0.010	0.0056
1.7750	106.5	44.02	0.010	0.0056
1.9750	118.5	44.03	0.000	0.0000

SLUG TEST DATA - WELL MW-12

Time (min)	Time (sec)	Elevation (feet)	Change (h)	Head Ratio (h/h_0)
0.0000	0.00	47.50	3.150	1.0000
0.0083	0.50	47.49	3.140	0.9968
0.0166	1.00	47.48	3.130	0.9936
0.0250	1.50	47.43	3.080	0.9778
0.0333	2.00	47.33	2.980	0.9460
0.0416	2.50	47.23	2.880	0.9143
0.0500	3.00	47.14	2.790	0.8857
0.0583	3.50	47.05	2.700	0.8571
0.0666	4.00	46.97	2.620	0.8317
0.0750	4.50	46.89	2.540	0.8063
0.0833	5.00	46.81	2.460	0.7810
0.0916	5.50	46.74	2.390	0.7587
0.1000	6.00	46.67	2.320	0.7365
0.1083	6.50	46.61	2.260	0.7175
0.1166	7.00	46.54	2.190	0.6952
0.1250	7.50	46.48	2.130	0.6762
0.1333	8.00	46.42	2.070	0.6571
0.1416	8.50	46.36	2.010	0.6381
0.1500	9.00	46.30	1.950	0.6190
0.1583	9.50	46.25	1.900	0.6032
0.1666	10.00	46.20	1.850	0.5873
0.1750	10.50	46.25	1.900	0.6032
0.1833	11.00	46.11	1.760	0.5587
0.1916	11.50	46.06	1.710	0.5429
0.2000	12.00	46.01	1.660	0.5270
0.2083	12.50	45.97	1.620	0.5143
0.2166	13.00	45.93	1.580	0.5016
0.2250	13.50	45.89	1.540	0.4889
0.2333	14.00	45.85	1.500	0.4762
0.2416	14.50	45.81	1.460	0.4635
0.2500	15.00	45.78	1.430	0.4540
0.2583	15.50	45.74	1.390	0.4413
0.2666	16.00	45.71	1.360	0.4317
0.2750	16.50	45.68	1.330	0.4222
0.2833	17.00	45.65	1.300	0.4127
0.2916	17.50	45.62	1.270	0.4032
0.3000	18.00	45.59	1.240	0.3936
0.3083	18.50	45.56	1.210	0.3841
0.3166	19.00	45.53	1.180	0.3746
0.3250	19.50	45.50	1.150	0.3651
0.3333	20.00	45.48	1.130	0.3587
0.3500	21.00	45.43	1.080	0.3429
0.3666	22.00	45.38	1.030	0.3270
0.3833	23.00	45.34	0.990	0.3143
0.4000	24.00	45.30	0.950	0.3016
0.4166	25.00	45.26	0.910	0.2889

SLUG TEST DATA - WELL MW-12
(continued)

Time (min)	Time (sec)	Elevation (feet)	Change (h)	Head Ratio (h/h_0)
0.4333	26.00	45.22	0.870	0.2762
0.4500	27.00	45.19	0.840	0.2667
0.4666	28.00	45.16	0.810	0.2571
0.4833	29.00	45.13	0.780	0.2476
0.5000	30.00	45.10	0.750	0.2381
0.5166	31.00	45.07	0.720	0.2286
0.5333	32.00	45.05	0.700	0.2222
0.5500	33.00	45.02	0.670	0.2127
0.5666	34.00	45.00	0.650	0.2063
0.5833	35.00	44.98	0.630	0.2000
0.6000	36.00	44.95	0.600	0.1905
0.6166	37.00	44.93	0.580	0.1841
0.6333	38.00	44.91	0.560	0.1778
0.6500	39.00	44.89	0.540	0.1714
0.6666	40.00	44.88	0.530	0.1683
0.6833	41.00	44.86	0.510	0.1619
0.7000	42.00	44.84	0.490	0.1556
0.7166	43.00	44.83	0.480	0.1524
0.7333	44.00	44.82	0.470	0.1492
0.7500	45.00	44.80	0.450	0.1429
0.7666	46.00	44.79	0.440	0.1397
0.7833	47.00	44.78	0.430	0.1365
0.8000	48.00	44.77	0.420	0.1333
0.8166	49.00	44.75	0.400	0.1270
0.8333	50.00	44.74	0.390	0.1238
0.8500	51.00	44.73	0.380	0.1206
0.8666	52.00	44.72	0.370	0.1175
0.8833	53.00	44.71	0.360	0.1143
0.9000	54.00	44.70	0.350	0.1111
0.9166	55.00	44.70	0.350	0.1111
0.9333	56.00	44.69	0.340	0.1079
0.9500	57.00	44.68	0.330	0.1048
0.9666	58.00	44.67	0.320	0.1016
0.9833	59.00	44.67	0.320	0.1016
1.0000	60.00	44.66	0.310	0.0984
1.2000	72.00	44.58	0.230	0.0730
1.4000	84.00	44.54	0.190	0.0603
1.6000	96.00	44.51	0.160	0.0508
1.8000	108.00	44.48	0.130	0.0413
2.0000	120.00	44.46	0.110	0.0349
2.2000	132.00	44.45	0.100	0.0317
2.4000	144.00	44.44	0.090	0.0286
2.6000	156.00	44.42	0.070	0.0222
2.8000	168.00	44.42	0.070	0.0222
3.0000	180.00	44.41	0.060	0.0190

SLUG TEST DATA - WELL MW-12
(continued)

Time (min)	Time (sec)	Elevation (feet)	Change (h)	Head Ratio (h/h_o)
3.2000	192.00	44.40	0.050	0.0159
3.4000	204.00	44.40	0.050	0.0159
3.6000	216.00	44.40	0.050	0.0159
3.8000	228.00	44.39	0.040	0.0127
4.0000	240.00	44.39	0.040	0.0127
4.2000	252.00	44.39	0.040	0.0127
4.4000	264.00	44.39	0.040	0.0127
4.6000	276.00	44.38	0.030	0.0095
4.8000	288.00	44.38	0.030	0.0095
5.0000	300.00	44.38	0.030	0.0095
5.2000	312.00	44.37	0.020	0.0064
5.4000	324.00	44.37	0.020	0.0064
5.6000	336.00	44.37	0.020	0.0064
5.8000	348.00	44.37	0.020	0.0064
6.0000	360.00	44.37	0.020	0.0064
6.2000	372.00	44.37	0.020	0.0064
6.4000	384.00	44.37	0.020	0.0064
6.6000	396.00	44.36	0.010	0.0032
6.8000	408.00	44.36	0.010	0.0032
7.0000	420.00	44.36	0.010	0.0032
7.2000	432.00	44.36	0.010	0.0032
7.4000	444.00	44.36	0.010	0.0032
7.6000	456.00	44.36	0.010	0.0032
7.8000	468.00	44.36	0.010	0.0032
8.0000	480.00	44.35	0.000	0.0000

SLUG TEST DATA - WELL MW-13

Time (min)	Time (sec)	Elevation (feet)	Change (h)	Head Ratio (h/h_0)
0.0000	0.00	46.51	2.070	1.0000
0.0083	0.50	46.51	2.070	1.0000
0.0166	1.00	46.45	2.010	0.9710
0.0250	1.50	46.40	1.960	0.9469
0.0333	2.00	46.35	1.910	0.9227
0.0416	2.50	46.30	1.860	0.8986
0.0500	3.00	46.26	1.820	0.8792
0.0583	3.50	46.22	1.780	0.8599
0.0666	4.00	46.18	1.740	0.8406
0.0750	4.50	46.14	1.700	0.8213
0.0833	5.00	46.10	1.660	0.8019
0.0916	5.50	46.06	1.620	0.7826
0.1000	6.00	46.02	1.580	0.7633
0.1083	6.50	45.99	1.550	0.7488
0.1166	7.00	45.96	1.520	0.7343
0.1250	7.50	45.93	1.490	0.7198
0.1333	8.00	45.90	1.460	0.7053
0.1416	8.50	45.86	1.420	0.6860
0.1500	9.00	45.84	1.400	0.6763
0.1583	9.50	45.81	1.370	0.6618
0.1666	10.00	45.78	1.340	0.6473
0.1750	10.50	45.76	1.320	0.6377
0.1833	11.00	45.72	1.280	0.6184
0.1916	11.50	45.70	1.260	0.6087
0.2000	12.00	45.68	1.240	0.5990
0.2083	12.50	45.66	1.220	0.5894
0.2166	13.00	45.63	1.190	0.5749
0.2250	13.50	45.61	1.170	0.5652
0.2333	14.00	45.59	1.150	0.5556
0.2416	14.50	45.57	1.130	0.5459
0.2500	15.00	45.54	1.100	0.5314
0.2583	15.50	45.52	1.080	0.5217
0.2666	16.00	45.50	1.060	0.5121
0.2750	16.50	45.48	1.040	0.5024
0.2833	17.00	45.46	1.020	0.4928
0.2916	17.50	45.45	1.010	0.4879
0.3000	18.00	45.43	0.990	0.4783
0.3083	18.50	45.41	0.970	0.4686
0.3166	19.00	45.39	0.950	0.4589
0.3250	19.50	45.38	0.940	0.4541
0.3333	20.00	45.36	0.920	0.4444
0.3500	21.00	45.33	0.890	0.4300
0.3666	22.00	45.30	0.860	0.4155
0.3833	23.00	45.27	0.830	0.4010
0.4000	24.00	45.24	0.800	0.3865
0.4166	25.00	45.22	0.780	0.3768

SLUG TEST DATA - WELL MW-13
(continued)

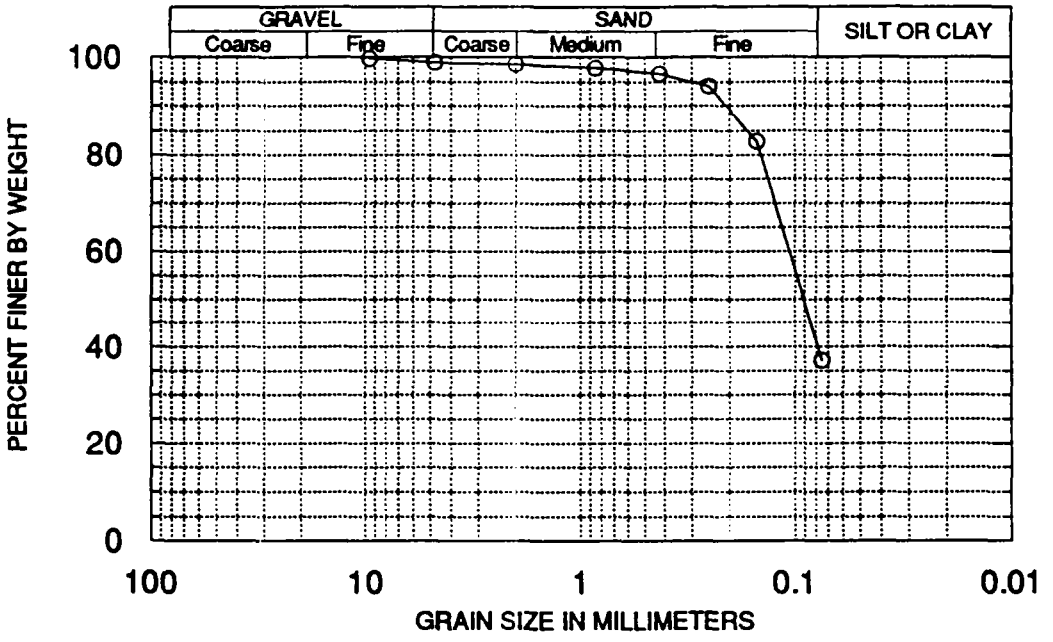
Time (min)	Time (sec)	Elevation (feet)	Change (h)	Head Ratio (h/h_o)
0.4333	26.00	45.19	0.750	0.3623
0.4500	27.00	45.17	0.730	0.3527
0.4666	28.00	45.15	0.710	0.3430
0.4833	29.00	45.13	0.690	0.3333
0.5000	30.00	45.10	0.660	0.3188
0.5166	31.00	45.08	0.640	0.3092
0.5333	32.00	45.06	0.620	0.2995
0.5500	33.00	45.05	0.610	0.2947
0.5666	34.00	45.03	0.590	0.2850
0.5833	35.00	45.01	0.570	0.2754
0.6000	36.00	44.99	0.550	0.2657
0.6166	37.00	44.98	0.540	0.2609
0.6333	38.00	44.96	0.520	0.2512
0.6500	39.00	44.95	0.510	0.2464
0.6666	40.00	44.94	0.500	0.2415
0.6833	41.00	44.93	0.490	0.2367
0.7000	42.00	44.91	0.470	0.2271
0.7166	43.00	44.90	0.460	0.2222
0.7333	44.00	44.89	0.450	0.2174
0.7500	45.00	44.87	0.430	0.2077
0.7666	46.00	44.86	0.420	0.2029
0.7833	47.00	44.86	0.420	0.2029
0.8000	48.00	44.84	0.400	0.1932
0.8166	49.00	44.83	0.390	0.1884
0.8333	50.00	44.82	0.380	0.1836
0.8500	51.00	44.82	0.380	0.1836
0.8666	52.00	44.80	0.360	0.1739
0.8833	53.00	44.80	0.360	0.1739
0.9000	54.00	44.79	0.350	0.1691
0.9166	55.00	44.78	0.340	0.1643
0.9333	56.00	44.77	0.330	0.1594
0.9500	57.00	44.76	0.320	0.1546
0.9666	58.00	44.75	0.310	0.1498
0.9833	59.00	44.75	0.310	0.1498
1.0000	60.00	44.74	0.300	0.1449
1.2000	72.00	44.67	0.230	0.1111
1.4000	84.00	44.62	0.180	0.0870
1.6000	96.00	44.58	0.140	0.0676
1.8000	108.00	44.56	0.120	0.0580
2.0000	120.00	44.54	0.100	0.0483
2.2000	132.00	44.52	0.080	0.0386
2.4000	144.00	44.51	0.070	0.0338
2.6000	156.00	44.49	0.050	0.0242
2.8000	168.00	44.49	0.050	0.0242
3.0000	180.00	44.48	0.040	0.0193

SLUG TEST DATA - WELL MW-13
(continued)

Time (min)	Time (sec)	Elevation (feet)	Change (h)	Head Ratio (h/h_o)
3.2000	192.00	44.47	0.030	0.0145
3.4000	204.00	44.47	0.030	0.0145
3.6000	216.00	44.46	0.020	0.0097
3.8000	228.00	44.46	0.020	0.0097
4.0000	240.00	44.46	0.020	0.0097
4.2000	252.00	44.46	0.020	0.0097
4.4000	264.00	44.46	0.020	0.0097
4.6000	276.00	44.46	0.020	0.0097
4.8000	288.00	44.45	0.010	0.0048
5.0000	300.00	44.45	0.010	0.0048
5.2000	312.00	44.45	0.010	0.0048
5.4000	324.00	44.45	0.010	0.0048
5.6000	336.00	44.45	0.010	0.0048
5.8000	348.00	44.44	0.000	0.0000

APP. G

Boring MW-3D



COMPOSITE SAMPLES	DEPTH	VISUAL DESCRIPTION
SS-6	39' - 41'	Fine sand with trace gravel.

ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE
A	PRELIMINARY				

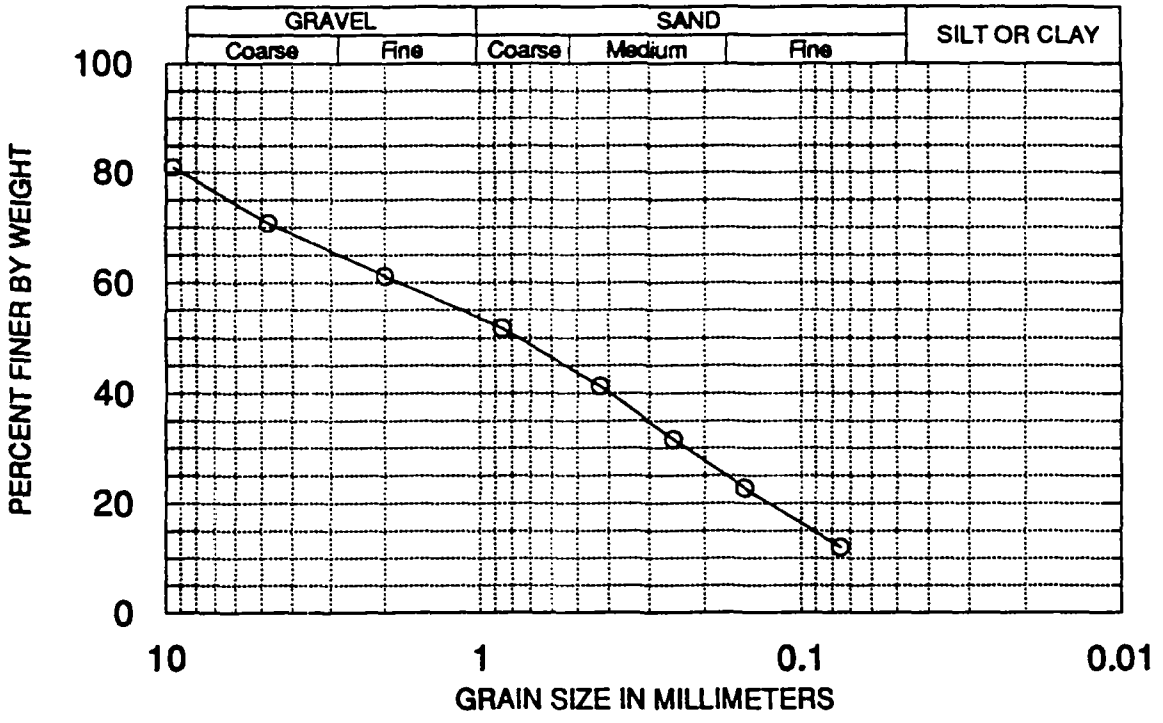
CleanHarbors
Environmental Services, Inc.
Remedial Technologies Division
12 MERCER ROAD
NATICK, MASSACHUSETTS 01760
(508) 650-6910

MURPHY'S WASTE OIL SERVICE, INC.
252 SALEM STREET
WOBURN, MASSACHUSETTS

GRAIN SIZE DISTRIBUTION
MW-3D LOWER AQUIFER

PROJECT NO. EN - 170
DWG. NO.
SCALE: NA

Boring MW-7



COMPOSITE SAMPLES	DEPTH	VISUAL DESCRIPTION
SS-2	2.5' - 4.5'	Fine sand and silt with some rock fragments.
SS-3	4.5' - 6.5'	Fine sand and silt with some coarse sand and rock fragments.
SS-4	6.5' - 8.5'	Fine sand and silt with some coarse sand and rock fragments.
SS-5	8.5' - 10.5'	Fine to coarse sand with some silt.
SS-6	10.5' - 12.5'	Very coarse sand.

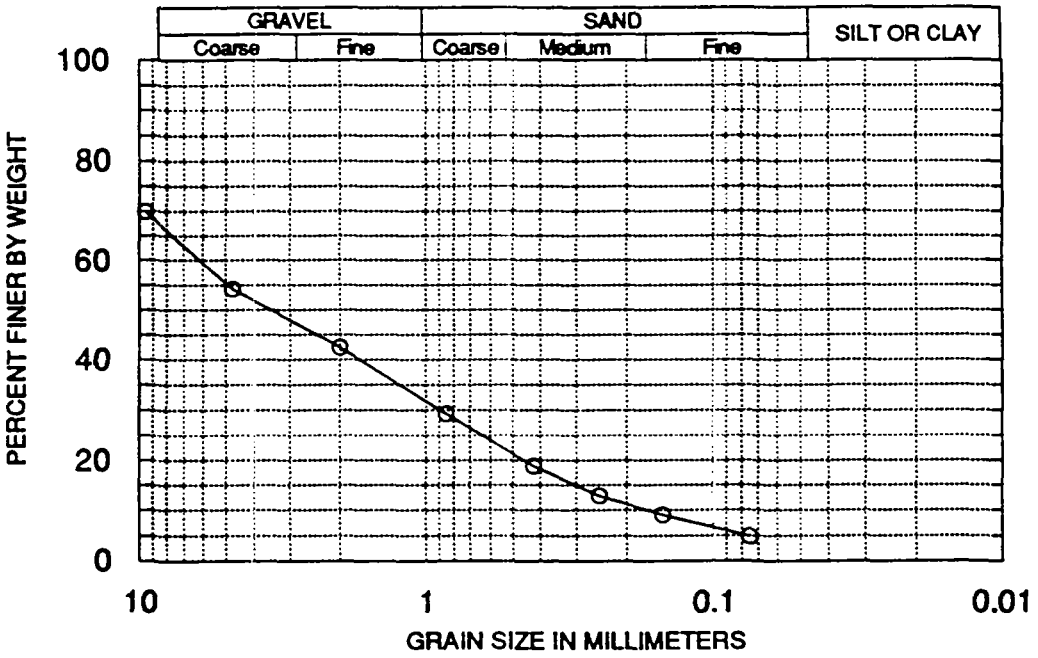
ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE
A	PRELIMINARY				

CleanHarbors
Environmental Services, Inc.
Remedial Technologies Division
12 MERCER ROAD
NATICK, MASSACHUSETTS 01760
(508) 650-6910

MURPHY'S WASTE OIL SERVICE, INC.
252 SALEM STREET
WOBURN, MASSACHUSETTS
GRAIN SIZE DISTRIBUTION
MW-7 UPPER AQUIFER

PROJECT NO. EN - 170
DWG. NO.
SCALE: NA

Boring MW-8



COMPOSITE SAMPLES	DEPTH	VISUAL DESCRIPTION
SS-3	4' - 6'	Medium to fine sand and gravel with trace coarse sand.
SS-4	6' - 8'	Medium to fine sand, some gravel with trace coarse sand.
SS-5	8' - 10'	Medium to coarse sand with trace fine sand and gravel.
SS-6	10' - 12'	Medium to coarse sand with some gravel and trace fine sand.

ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE
A	PRELIMINARY				

CleanHarbors
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Remedial Technologies Division
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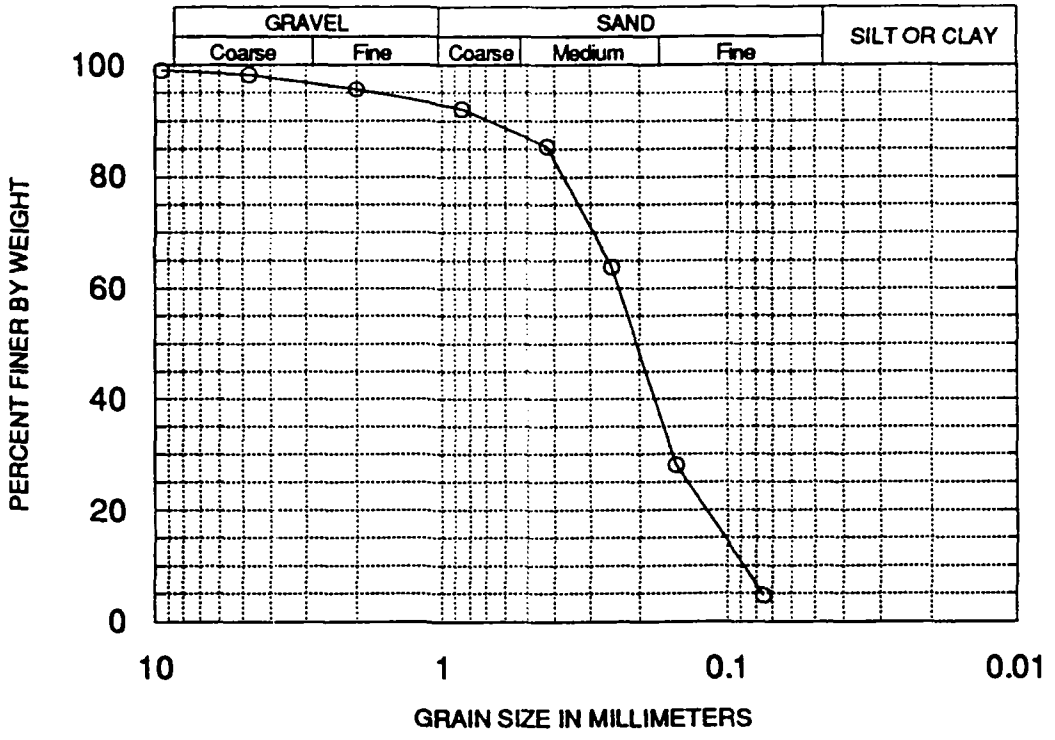
NATICK, MASSACHUSETTS 01760
(508) 650-6910

MURPHY'S WASTE OIL SERVICE, INC.
252 SALEM STREET
WOBURN, MASSACHUSETTS

GRAIN SIZE DISTRIBUTION
MW-8 UPPER AQUIFER

PROJECT NO. EN - 170
DWG. NO.
SCALE: NA

Boring MW-9



COMPOSITE SAMPLES	DEPTH	VISUAL DESCRIPTION
SS-3	4' - 6'	Medium to coarse sand with some gravel and rock fragments.
SS-5	8' - 10'	Medium to fine sand.
SS-6	10' - 12'	Medium to fine sand.

ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE
A	PRELIMINARY				

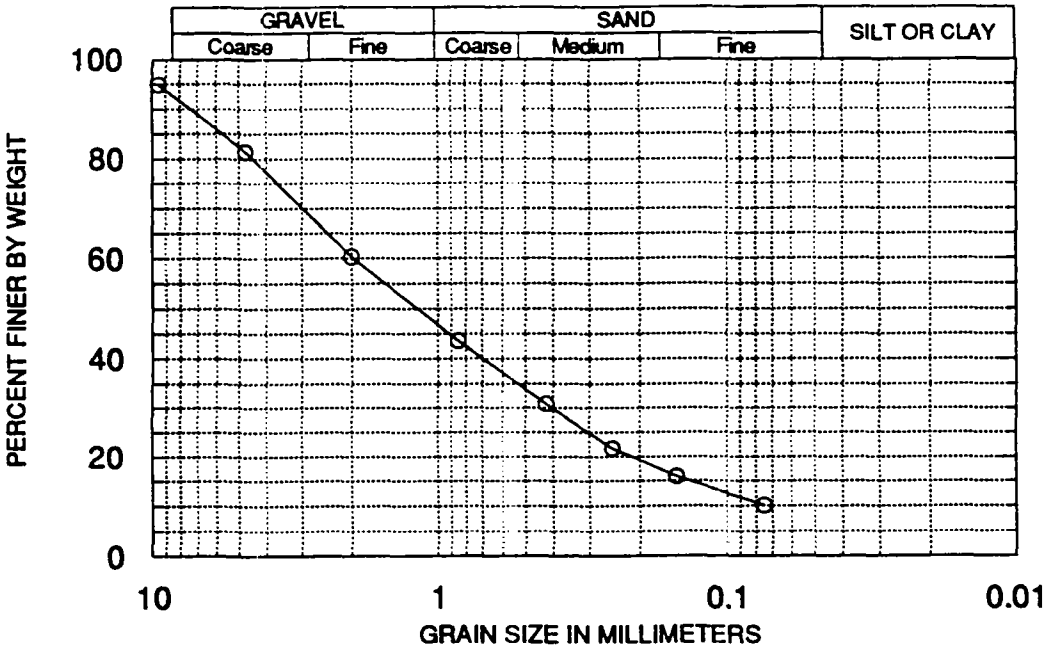
CleanHarbors
Environmental Services, Inc.
Remedial Technologies Division
12 MERCER ROAD
NATICK, MASSACHUSETTS 01760
(508) 650-6910

MURPHY'S WASTE OIL SERVICE, INC.
252 SALEM STREET
WOBURN, MASSACHUSETTS

GRAIN SIZE DISTRIBUTION
MW-9 UPPER AQUIFER

PROJECT NO. EN - 170
DWG. NO.
SCALE: NA

Boring MW-10



COMPOSITE SAMPLES	DEPTH	VISUAL DESCRIPTION
SS-6	39' - 41'	Medium to coarse sand with some gravel.

ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE
A	PRELIMINARY				

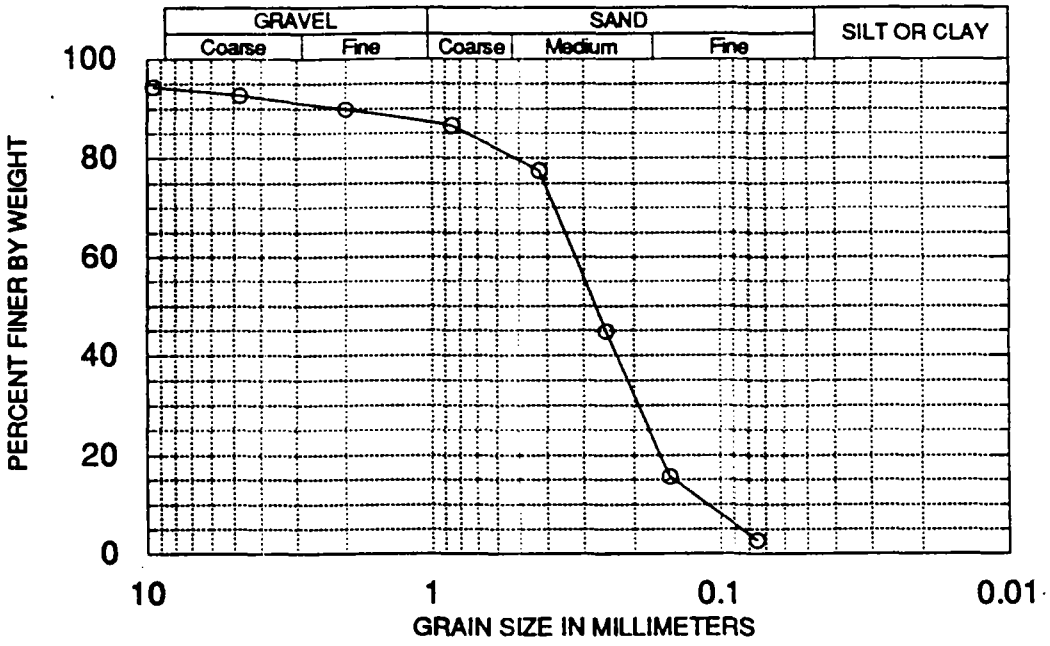
CleanHarbors
Environmental Services, Inc.
Remedial Technologies Division
12 MERCER ROAD
NATICK, MASSACHUSETTS 01760
(508) 650-6910

MURPHY'S WASTE OIL SERVICE, INC.
252 SALEM STREET
WOBURN, MASSACHUSETTS

GRAIN SIZE DISTRIBUTION
MW-10 LOWER AQUIFER

PROJECT NO. EN - 170
DWG. NO.
SCALE: NA

Boring MW-11



COMPOSITE SAMPLES	DEPTH	VISUAL DESCRIPTION
SS-3	4' - 6'	Medium to fine sand with some gravel.
SS-5	8' - 10'	Medium to fine sand.
SS-6	10' - 12'	Medium to fine sand with trace coarse sand and gravel.

ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE
A	PRELIMINARY				

CleanHarbors
Environmental Services, Inc.
Remedial Technologies Division
12 MERCER ROAD
NATICK, MASSACHUSETTS 01760
(508) 650-6910

MURPHY'S WASTE OIL SERVICE, INC.
252 SALEM STREET
WOBURN, MASSACHUSETTS

GRAIN SIZE DISTRIBUTION
MW-11 UPPER AQUIFER

PROJECT NO. EN - 170
DWG. NO.
SCALE: NA

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D, SS-6
Sample Type: Soil

CHES Lab #: 9510112-01M
Date Received: 10/06/95

SIEVE ANALYSIS

by ASTM Method Mod. D422

Analysis Date: 10/19/95

SIEVE NUMBER	OPENING SIZE in MM	WEIGHT %
--	9.5	0.2
4	4.75	0.8
10	2.00	0.4
20	0.850	0.6
40	0.425	1.2
60	0.250	2.7
100	0.150	11.2
200	0.075	45.6
Bottom Tray	<0.075	37.2

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: COMP.OF B-3, SS-2,3,4,5,6 (MW-7)
Sample Type: Soil

CHES Lab #: 9510032-07L
Date Received: 10/03/95

SIEVE ANALYSIS

by ASTM Method Mod. D422

Analysis Date: 10/18/95

SIEVE NUMBER	OPENING SIZE in MM	WEIGHT %
--	9.5	18.5
4	4.75	10.3
10	2.00	9.6
20	0.850	9.4
40	0.425	10.5
60	0.250	9.7
100	0.150	8.8
200	0.075	10.8
Bottom Tray	<0.075	11.9

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: COMPOSITE OF MW-8
Sample Type: Soil

CHES Lab #: 9510403-07L
Date Received: 10/27/95

SIEVE ANALYSIS

by ASTM Method Mod. D422

Analysis Date: 11/09/95

SIEVE NUMBER	OPENING SIZE in MM	WEIGHT %
--	9.5	30.0
4	4.75	15.7
10	2.00	11.7
20	0.850	13.2
40	0.425	10.5
60	0.250	5.9
100	0.150	3.8
200	0.075	4.2
Bottom Tray	<0.075	4.9

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: COMPOSITE MW-9,SS-3,5,6
Sample Type: Soil

CHES Lab #: 9510080-06L
Date Received: 10/05/95

SIEVE ANALYSIS

by ASTM Method Mod. D422

Analysis Date: 10/18/95

SIEVE NUMBER	OPENING SIZE in MM	WEIGHT %
--	9.5	0.6
4	4.75	0.8
10	2.00	2.7
20	0.850	3.6
40	0.425	6.6
60	0.250	21.5
100	0.150	35.8
200	0.075	23.5
Bottom Tray	<0.075	4.6

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10, SS-6
Sample Type: Soil

CHES Lab #: 9510133-06L
Date Received: 10/10/95

SIEVE ANALYSIS

by ASTM Method Mod. D422

Analysis Date: 10/20/95

SIEVE NUMBER	OPENING SIZE in MM	WEIGHT %
--	9.5	5.1
4	4.75	13.5
10	2.00	21.1
20	0.850	16.7
40	0.425	12.8
60	0.250	9.1
100	0.150	5.7
200	0.075	5.9
Bottom Tray	<0.075	10.1

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: COMP.OF MW-11,SS-3,SS-5,SS-6
Sample Type: Soil

CHES Lab #: 9510031-08L
Date Received: 10/03/95

SIEVE ANALYSIS

by ASTM Method Mod. D422

Analysis Date: 10/16/95

SIEVE NUMBER	OPENING SIZE in MM	WEIGHT %
--	9.5	5.4
4	4.75	1.8
10	2.00	2.9
20	0.850	3.3
40	0.425	9.0
60	0.250	32.7
100	0.150	29.2
200	0.075	12.9
Bottom Tray	<0.075	2.7

APP. H

CleanHarbors
ENVIRONMENTAL SERVICES, INC.
325 WOOD ROAD • BRAINTREE, MA 02184
(617) 849-1800

REPORT OF ANALYSIS

Clean Harbors Environmental Services, Inc.
12 Mercer Road
Natick, MA 01760

Project: MURPHY'S
P.O. #: EN170

Date Received: 11/08/95
CHES Lab #: 9511101

Attn: Mr. Jay McCreary

Enclosed are the results for the sample(s) delivered to our laboratory (DEP Laboratory ID# M-MA032) on the date indicated above.

The methods listed represent those methodologies which were used to develop the best analytical techniques. Analytical results and quality assurance protocols are based on these guidelines. These meet the requirements for the reporting of results under the RCRA, NPDES and Safe Drinking Water Act regulations.

Clean Harbors Environmental Services has an active program of quality assurance and quality control. The program closely follows the guidance provided in the EPA Contract Laboratory Program Statement of Work (organic and inorganic), the guidance provided in SW-846, and many other pertinent documents.

Should you have any questions concerning this work, please do not hesitate to contact me.

The information contained in this report is, to the best of my knowledge, accurate and complete.

Per/Date: Michael J. Murray 12/5/95

Michael J. Murray
Laboratory Manager

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-1SS
Sample Type: Water

CHES Lab #: 9511101-01AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	113 %	72-122%	70-121%
Toluene-d8:	103 %	86-123%	84-138%
p-BFB:	89 %	83-123%	59-113%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-1SS
Sample Type: Water

CHES Lab #: 9511101-01G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/16/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 61 %	35-114%	23-120%
2-Fluorobiphenyl: 62 %	43-116%	30-115%
Terphenyl-d14: 62 %	33-141%	18-137%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-1SS
Sample Type: Water

CHES Lab #: 9511101-01G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/16/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 43 %	21-100%	25-121%
Phenol-d5: 33 %	10-94%	24-113%
2,4,6-Tribromophenol: 130 %	10-123%	19-122%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-1SS
Sample Type: Water

CHES Lab #: 9511101-010
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	76.2%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-1SS
Sample Type: Water

CHES Lab #: 9511101-01E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-1SS
Sample Type: Water

CHES Lab #: 9511101-01M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.0	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-2SS
Sample Type: Water

CHES Lab #: 9511101-02AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	31	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	14
trans-1,2-Dichloroethene	5	140	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	114 %	72-122%	70-121%
Toluene-d8:	102 %	86-123%	84-138%
p-BFB:	87 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-2SS
Sample Type: Water

CHES Lab #: 9511101-02G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/16/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 111 %	35-114%	23-120%
2-Fluorobiphenyl: 90 %	43-116%	30-115%
Terphenyl-d14: 93 %	33-141%	18-137%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-2SS
Sample Type: Water

CHES Lab #: 9511101-02G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/16/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 74 %	21-100%	25-121%
Phenol-d5: 55 %	10-94%	24-113%
2,4,6-Tribromophenol: 176 %	10-123%	19-122%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-2SS
Sample Type: Water

CHES Lab #: 9511101-020
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	58.2%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-2SS
Sample Type: Water

CHES Lab #: 9511101-02E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.002	0.006	11/08/95	11/09/95	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-2SS
Sample Type: Water

CHES Lab #: 9511101-02M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.3	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-1
Sample Type: Water

CHES Lab #: 9511101-03AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	25	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	107 %	72-122%	70-121%
Toluene-d8:	98 %	86-123%	84-138%
p-BFB:	83 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-1
Sample Type: Water

CHES Lab #: 9511101-03G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/16/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 61 %	35-114%	23-120%
2-Fluorobiphenyl: 54 %	43-116%	30-115%
Terphenyl-d14: 51 %	33-141%	18-137%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-1
Sample Type: Water

CHES Lab #: 9511101-03G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/16/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 45 %	21-100%	25-121%
Phenol-d5: 32 %	10-94%	24-113%
2,4,6-Tribromophenol: 103 %	10-123%	19-122%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-1
Sample Type: Water

CHES Lab #: 9511101-030
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	62.3%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-1
Sample Type: Water

CHES Lab #: 9511101-03E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-1
Sample Type: Water

CHES Lab #: 9511101-03M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.2	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-2
Sample Type: Water

CHES Lab #: 9511101-04AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	24	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	110 %	72-122%	70-121%
Toluene-d8:	100 %	86-123%	84-138%
p-BFB:	86 %	83-123%	59-113%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-2
Sample Type: Water

CHES Lab #: 9511101-04G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/17/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 59 %
2-Fluorobiphenyl: 56 %
Terphenyl-d14: 56 %

Acceptance Criteria:

Water	Soil
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-2
Sample Type: Water

CHES Lab #: 9511101-04G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/17/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 41 %	21-100%	25-121%
Phenol-d5: 30 %	10-94%	24-113%
2,4,6-Tribromophenol: 104 %	10-123%	19-122%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-2
Sample Type: Water

CHES Lab #: 9511101-040
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	67.7%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-2
Sample Type: Water

CHES Lab #: 9511101-04E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-2
Sample Type: Water

CHES Lab #: 9511101-04M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.1	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3
Sample Type: Water

CHES Lab #: 9511101-05AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	500	ND	1,2-Dichloropropane	130	ND
Benzene	130	ND	cis-1,3-Dichloropropene	130	ND
Bromodichloromethane	130	ND	trans-1,3-Dichloropropene	130	ND
Bromoform	130	ND	Ethylbenzene	130	ND
Bromomethane	250	ND	2-Hexanone	130	ND
2-Butanone	500	ND	Methylene chloride	500	ND
Carbon disulfide	250	ND	4-Methyl-2-pentanone	130	ND
Carbon tetrachloride	130	ND	Methyl-t-butylether (MTBE)	250	ND
Chlorobenzene	130	ND	Styrene	130	ND
Chloroethane	250	ND	1,1,2,2-Tetrachloroethane	130	ND
2-Chloroethyl vinyl ether	250	ND	Tetrachloroethene	130	ND
Chloroform	130	ND	Toluene	130	ND
Chloromethane	250	ND	1,1,1-Trichloroethane	130	160
Dibromochloromethane	130	ND	1,1,2-Trichloroethane	130	ND
Dibromoethane (EDB)	130	ND	Trichloroethene	130	140
1,1-Dichloroethane	130	ND	Trichlorofluoromethane	130	ND
1,2-Dichloroethane	130	ND	Vinyl acetate	250	ND
1,1-Dichloroethene	130	ND	Vinyl chloride	250	ND
trans-1,2-Dichloroethene	130	2,200	Total xylenes	130	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	113 %	72-122%	70-121%
Toluene-d8:	106 %	86-123%	84-138%
p-BFB:	86 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3
Sample Type: Water

CHES Lab #: 9511101-05G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/16/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 40 %	35-114%	23-120%
2-Fluorobiphenyl: 42 %	43-116%	30-115%
Terphenyl-d14: 44 %	33-141%	18-137%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3
Sample Type: Water

CHES Lab #: 9511101-05G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/16/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 32 %	21-100%	25-121%
Phenol-d5: 27 %	10-94%	24-113%
2,4,6-Tribromophenol: 116 %	10-123%	19-122%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3
Sample Type: Water

CHES Lab #: 9511101-050
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	40.3%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3
Sample Type: Water

CHES Lab #: 9511101-05E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3
Sample Type: Water

CHES Lab #: 9511101-05M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	5.5	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D
Sample Type: Water

CHES Lab #: 9511101-06AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	25	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	112 %	72-122%	70-121%
Toluene-d8:	106 %	86-123%	84-138%
p-BFB:	88 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D
Sample Type: Water

CHES Lab #: 9511101-06G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/17/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 64 %	35-114%	23-120%
2-Fluorobiphenyl: 58 %	43-116%	30-115%
Terphenyl-d14: 58 %	33-141%	18-137%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D
Sample Type: Water

CHES Lab #: 9511101-06G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/17/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 46 %	21-100%	25-121%
Phenol-d5: 33 %	10-94%	24-113%
2,4,6-Tribromophenol: 103 %	10-123%	19-122%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D
Sample Type: Water

CHES Lab #: 9511101-060
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	78.2%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D
Sample Type: Water

CHES Lab #: 9511101-06E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	ND	11/08/95	11/21/95	4.1.1/206.2(a)
Cadmium - Dissolved	0.001	ND	11/08/95	11/22/95	4.1.1/213.2(a)
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)
Zinc - Dissolved	0.04	ND	11/08/95	11/09/95	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D
Sample Type: Water

CHES Lab #: 9511101-06H
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	11/13/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/10/95	335.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D
Sample Type: Water

CHES Lab #: 9511101-06M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.3	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-4
Sample Type: Water

CHES Lab #: 9511101-07AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/21/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	103 %	72-122%	70-121%
Toluene-d8:	102 %	86-123%	84-138%
p-BFB:	83 %	83-123%	59-113%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-4
Sample Type: Water

CHES Lab #: 9511101-07G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/17/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 42 %	35-114%	23-120%
2-Fluorobiphenyl: 42 %	43-116%	30-115%
Terphenyl-d14: 55 %	33-141%	18-137%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-4
Sample Type: Water

CHES Lab #: 9511101-07G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/17/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 31 %	21-100%	25-121%
Phenol-d5: 23 %	10-94%	24-113%
2,4,6-Tribromophenol: 76 %	10-123%	19-122%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-4
Sample Type: Water

CHES Lab #: 9511101-070
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	55.4%	34-104%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-4
Sample Type: Water

CHES Lab #: 9511101-07E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-4
Sample Type: Water

CHES Lab #: 9511101-07M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.1	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5S
Sample Type: Water

CHES Lab #: 9511101-08AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/21/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	120 %	72-122%	70-121%
Toluene-d8:	107 %	86-123%	84-138%
p-BFB:	88 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5S
Sample Type: Water

CHES Lab #: 9511101-08G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/17/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 55 %	35-114%	23-120%
2-Fluorobiphenyl: 53 %	43-116%	30-115%
Terphenyl-d14: 61 %	33-141%	18-137%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5S
Sample Type: Water

CHES Lab #: 9511101-08G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/17/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 41 %	21-100%	25-121%
Phenol-d5: 30 %	10-94%	24-113%
2,4,6-Tribromophenol: 108 %	10-123%	19-122%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5S
Sample Type: Water

CHES Lab #: 9511101-080
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	80.9%	34-104%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5S
Sample Type: Water

CHES Lab #: 9511101-08E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5S
Sample Type: Water

CHES Lab #: 9511101-08M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.2	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5D
Sample Type: Water

CHES Lab #: 9511101-09AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	36	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	115 %	72-122%	70-121%
Toluene-d8:	112 %	86-123%	84-138%
p-BFB:	90 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5D
Sample Type: Water

CHES Lab #: 9511101-09G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/17/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Additional compounds observed in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 41 %	35-114%	23-120%
2-Fluorobiphenyl: 43 %	43-116%	30-115%
Terphenyl-d14: 47 %	33-141%	18-137%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5D
Sample Type: Water

CHES Lab #: 9511101-09G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/17/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Additional compounds observed in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 33 %	21-100%	25-121%
Phenol-d5: 29 %	10-94%	24-113%
2,4,6-Tribromophenol: 108 %	10-123%	19-122%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5D
Sample Type: Water

CHES Lab #: 9511101-090
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	45.1%	34-104%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5D
Sample Type: Water

CHES Lab #: 9511101-09E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5D
Sample Type: Water

CHES Lab #: 9511101-09M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	7.3	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-6
Sample Type: Water

CHES Lab #: 9511101-10AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	32	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	120 %	72-122%	70-121%
Toluene-d8:	113 %	86-123%	84-138%
p-BFB:	91 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-6
Sample Type: Water

CHES Lab #: 9511101-10G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/17/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 50 %	35-114%	23-120%
2-Fluorobiphenyl: 50 %	43-116%	30-115%
Terphenyl-d14: 61 %	33-141%	18-137%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-6
Sample Type: Water

CHES Lab #: 9511101-10G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/17/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 36 %	21-100%	25-121%
Phenol-d5: 26 %	10-94%	24-113%
2,4,6-Tribromophenol: 90 %	10-123%	19-122%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-6
Sample Type: Water

CHES Lab #: 9511101-100
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	71.8%	34-104%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-6
Sample Type: Water

CHES Lab #: 9511101-10E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-6
Sample Type: Water

CHES Lab #: 9511101-10M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.1	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-8
Sample Type: Water

CHES Lab #: 9511101-11AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	29	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	109 %	72-122%	70-121%
Toluene-d8:	100 %	86-123%	84-138%
p-BFB:	85 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-8
Sample Type: Water

CHES Lab #: 9511101-11G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/17/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 47 %	35-114%	23-120%
2-Fluorobiphenyl: 46 %	43-116%	30-115%
Terphenyl-d14: 58 %	33-141%	18-137%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-8
Sample Type: Water

CHES Lab #: 9511101-11G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/17/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 34 %	21-100%	25-121%
Phenol-d5: 27 %	10-94%	24-113%
2,4,6-Tribromophenol: 110 %	10-123%	19-122%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-8
Sample Type: Water

CHES Lab #: 9511101-110
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND - Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	57.8%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-8
Sample Type: Water

CHES Lab #: 9511101-11E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	ND	11/08/95	11/21/95	4.1.1/206.2(a)
Cadmium - Dissolved	0.001	ND	11/08/95	11/14/95	4.1.1/213.2(a)
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)
Zinc - Dissolved	0.04	ND	11/08/95	11/09/95	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-8
Sample Type: Water

CHES Lab #: 9511101-11H
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	11/13/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/10/95	335.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-8
Sample Type: Water

CHES Lab #: 9511101-11M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.4	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9
Sample Type: Water

CHES Lab #: 9511101-12AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	28	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	15
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	48
1,1-Dichloroethane	5	9	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	5	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	109 %	72-122%	70-121%
Toluene-d8:	101 %	86-123%	84-138%
p-BFB:	88 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9
Sample Type: Water

CHES Lab #: 9511101-12G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/18/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 47 %	35-114%	23-120%
2-Fluorobiphenyl: 54 %	43-116%	30-115%
Terphenyl-d14: 49 %	33-141%	18-137%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9
Sample Type: Water

CHES Lab #: 9511101-12G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/18/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 36 %	21-100%	25-121%
Phenol-d5: 28 %	10-94%	24-113%
2,4,6-Tribromophenol: 86 %	10-123%	19-122%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9
Sample Type: Water

CHES Lab #: 9511101-120
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	48.8%	34-104%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9
Sample Type: Water

CHES Lab #: 9511101-12E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	ND	11/08/95	11/21/95	4.1.1/206.2(a)
Cadmium - Dissolved	0.001	ND	11/08/95	11/14/95	4.1.1/213.2(a)
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)
Zinc - Dissolved	0.04	ND	11/08/95	11/09/95	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9
Sample Type: Water

CHES Lab #: 9511101-12H
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	11/13/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/10/95	335.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9
Sample Type: Water

CHES Lab #: 9511101-12M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	5.7	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10
Sample Type: Water

CHES Lab #: 9511101-13AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	24	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	110 %	72-122%	70-121%
Toluene-d8:	97 %	86-123%	84-138%
p-BFB:	83 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10
Sample Type: Water

CHES Lab #: 9511101-13G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/18/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 48 %	35-114%	23-120%
2-Fluorobiphenyl: 46 %	43-116%	30-115%
Terphenyl-d14: 47 %	33-141%	18-137%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10
Sample Type: Water

CHES Lab #: 9511101-13G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/18/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 33 %	21-100%	25-121%
Phenol-d5: 25 %	10-94%	24-113%
2,4,6-Tribromophenol: 73 %	10-123%	19-122%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10
Sample Type: Water

CHES Lab #: 9511101-130
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	81.0%	34-104%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10
Sample Type: Water

CHES Lab #: 9511101-13E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	ND	11/08/95	11/21/95	4.1.1/206.2(a)
Cadmium - Dissolved	0.001	ND	11/08/95	11/14/95	4.1.1/213.2(a)
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)
Zinc - Dissolved	0.04	ND	11/08/95	11/09/95	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10
Sample Type: Water

CHES Lab #: 9511101-13H
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	11/13/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/10/95	335.1(a)

Notes: ND - Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10
Sample Type: Water

CHES Lab #: 9511101-13M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.3	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11
Sample Type: Water

CHES Lab #: 9511101-14AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/20/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	16
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	13	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	117 %	72-122%	70-121%
Toluene-d8:	106 %	86-123%	84-138%
p-BFB:	96 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11
Sample Type: Water

CHES Lab #: 9511101-14G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/18/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Additional compounds observed in sample.
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 45 %	35-114%	23-120%
2-Fluorobiphenyl: 54 %	43-116%	30-115%
Terphenyl-d14: 60 %	33-141%	18-137%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11
Sample Type: Water

CHES Lab #: 9511101-14G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/18/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Additional compounds observed in sample.
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 31 %	21-100%	25-121%
Phenol-d5: 29 %	10-94%	24-113%
2,4,6-Tribromophenol: 88 %	10-123%	19-122%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11
Sample Type: Water

CHES Lab #: 9511101-140
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	53.7%	34-104%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11
Sample Type: Water

CHES Lab #: 9511101-14E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	ND	11/08/95	11/21/95	4.1.1/206.2(a)
Cadmium - Dissolved	0.001	ND	11/08/95	11/14/95	4.1.1/213.2(a)
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)
Zinc - Dissolved	0.04	ND	11/08/95	11/09/95	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11
Sample Type: Water

CHES Lab #: 9511101-14H
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	11/13/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/10/95	335.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11
Sample Type: Water

CHES Lab #: 9511101-14M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.1	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9511101-15AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/21/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	10	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	96	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	120 %	72-122%	70-121%
Toluene-d8:	109 %	86-123%	84-138%
p-BFB:	92 %	83-123%	59-113%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9511101-15G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/18/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Additional compounds observed in sample.
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 37 %	35-114%	23-120%
2-Fluorobiphenyl: 37 %	43-116%	30-115%
Terphenyl-d14: 58 %	33-141%	18-137%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9511101-15G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/18/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Additional compounds observed in sample.
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 25 %	21-100%	25-121%
Phenol-d5: 21 %	10-94%	24-113%
2,4,6-Tribromophenol: 106 %	10-123%	19-122%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9511101-150
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/18/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	79.1%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9511101-15E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	0.004	11/08/95	11/21/95	4.1.1/206.2(a)
Cadmium - Dissolved	0.001	ND	11/08/95	11/14/95	4.1.1/213.2(a)
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)
Zinc - Dissolved	0.04	1.4	11/08/95	11/09/95	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9511101-15H
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	11/20/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/20/95	335.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9511101-15M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.5	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9511101-16AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/21/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	116 %	72-122%	70-121%
Toluene-d8:	106 %	86-123%	84-138%
p-BFB:	83 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9511101-16G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/20/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	47	ND	Dimethylphthalate	47	ND
Acenaphthylene	47	ND	Di-n-butylphthalate	47	ND
Anthracene	47	ND	2,4-Dinitrotoluene	47	ND
Benzo(a)anthracene	47	ND	2,6-Dinitrotoluene	47	ND
Benzo(a)pyrene	47	ND	Di-n-octylphthalate	47	ND
Benzo(b)fluoranthene	47	ND	Fluoranthene	47	ND
Benzo(g,h,i)perylene	47	ND	Fluorene	47	ND
Benzo(k)fluoranthene	47	ND	Hexachlorobenzene	47	ND
Bis(2-chloroethoxy)methane	47	ND	Hexachlorobutadiene	47	ND
Bis(2-chloroethyl)ether	47	ND	Hexachlorocyclopentadiene	47	ND
Bis(2-chloroisopropyl)ether	47	ND	Hexachloroethane	47	ND
Bis(2-ethylhexyl)phthalate	94	ND	Indeno(1,2,3-cd)pyrene	47	ND
4-Bromophenyl phenyl ether	47	ND	Isophorone	47	ND
Butylbenzylphthalate	47	ND	2-Methylnaphthalene	47	ND
4-Chloroaniline	47	ND	Naphthalene	47	ND
2-Chloronaphthalene	47	ND	2-Nitroaniline	240	ND
4-Chlorophenyl phenyl ether	47	ND	3-Nitroaniline	240	ND
Chrysene	47	ND	4-Nitroaniline	240	ND
Dibenzo(a,h)anthracene	47	ND	Nitrobenzene	47	ND
Dibenzofuran	47	ND	N-Nitroso-di-n-propylamine	47	ND
1,2-Dichlorobenzene	47	ND	N-Nitrosodiphenylamine	47	ND
1,3-Dichlorobenzene	47	ND	Phenanthrene	47	ND
1,4-Dichlorobenzene	47	ND	Pyrene	47	ND
3,3'-Dichlorobenzidine	94	ND	1,2,4-Trichlorobenzene	47	ND
Diethylphthalate	47	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 45 %	35-114%	23-120%
2-Fluorobiphenyl: 60 %	43-116%	30-115%
Terphenyl-d14: 65 %	33-141%	18-137%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9511101-16G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/20/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	47	ND
2-Chlorophenol	47	ND
2,4-Dichlorophenol	47	ND
2,4-Dimethylphenol	47	ND
4,6-Dinitro-2-methylphenol	240	ND
2,4-Dinitrophenol	240	ND
2-Methylphenol	47	ND
4-Methylphenol	47	ND
2-Nitrophenol	47	ND
4-Nitrophenol	240	ND
Pentachlorophenol	240	ND
Phenol	47	ND
2,4,5-Trichlorophenol	240	ND
2,4,6-Trichlorophenol	240	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 25 %	21-100%	25-121%
Phenol-d5: 35 %	10-94%	24-113%
2,4,6-Tribromophenol: 125 %	10-123%	19-122%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9511101-160
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	1.6	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	57.7%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9511101-16E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	0.004	11/08/95	11/21/95	4.1.1/206.2(a)
Cadmium - Dissolved	0.001	ND	11/08/95	11/14/95	4.1.1/213.2(a)
Lead - Dissolved	0.002	0.004	11/08/95	11/09/95	4.1.1/239.2(a)
Zinc - Dissolved	0.04	0.56	11/08/95	11/09/95	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9511101-16H
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	11/20/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/20/95	335.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9511101-16M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.3	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: BLIND DUPLICATE (MW-11)
Sample Type: Water

CHES Lab #: 9511101-17AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/21/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	16
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	14	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	120 %	72-122%	70-121%
Toluene-d8:	107 %	86-123%	84-138%
p-BFB:	88 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: BLIND DUPLICATE (MW-11)
Sample Type: Water

CHES Lab #: 9511101-17G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/18/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 29 %	35-114%	23-120%
2-Fluorobiphenyl: 49 %	43-116%	30-115%
Terphenyl-d14: 58 %	33-141%	18-137%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: BLIND DUPLICATE (MW-11)
Sample Type: Water

CHES Lab #: 9511101-17G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/18/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 17 %	21-100%	25-121%
Phenol-d5: 21 %	10-94%	24-113%
2,4,6-Tribromophenol: 96 %	10-123%	19-122%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: BLIND DUPLICATE (MW-11)
Sample Type: Water

CHES Lab #: 9511101-170
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	64.2%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: BLIND DUPLICATE (MW-11)
Sample Type: Water

CHES Lab #: 9511101-17E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	0.003	11/08/95	11/21/95	4.1.1/206.2(a)
Cadmium - Dissolved	0.001	ND	11/08/95	11/14/95	4.1.1/213.2(a)
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)
Zinc - Dissolved	0.04	ND	11/08/95	11/09/95	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: BLIND DUPLICATE (MW-11)
Sample Type: Water

CHES Lab #: 9511101-17H
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	11/20/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/20/95	335.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: BLIND DUPLICATE (MW-11)
Sample Type: Water

CHES Lab #: 9511101-17M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.1	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: TRIP BLANK
Sample Type: Water

CHES Lab #: 9511101-18AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/20/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	113 %	72-122%	70-121%
Toluene-d8:	107 %	86-123%	84-138%
p-BFB:	90 %	83-123%	59-113%

CleanHarbors

QUALITY CONTROL

REPORT OF ANALYSIS

CHES LAB. NO. 9511101

The attached quality control data were generated during the analysis of these samples. All results have been generated in accordance with the procedures as stated in the Clean Harbors Environmental Services, Inc. Quality Assurance/Quality Control Manual and pertinent standard operating procedures, which are available for review. The attached has been submitted for informational purposes only.

CleanHarbors

Volatile Organics Blank - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-Pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4: 114%	72-122%	70-121%
Toluene-d8: 97%	86-123%	84-138%
p-BFB: 87%	83-123%	59-113%

Volatile Organics Blank - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/20/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-Pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4: 100%	72-122%	70-121%
Toluene-d8: 102%	86-123%	84-138%
p-BFB: 87%	83-123%	59-113%

Volatile Organics Blank - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/21/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-Pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4: 101%	72-122%	70-121%
Toluene-d8: 106%	86-123%	84-138%
p-BFB: 90%	83-123%	59-113%

Volatile Organics Blank - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/21/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-Pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4: 111%	72-122%	70-121%
Toluene-d8: 97%	86-123%	84-138%
p-BFB: 83%	83-123%	59-113%

CleanHarbors

Semi-Volatile Base/Neutral Extractable Organics Blank - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/16/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 66 %	35-114%	23-120%
2-Fluorobiphenyl: 55 %	43-116%	30-115%
Terphenyl-d14: 61 %	33-141%	18-137%

CleanHarbors

Semi-Volatile Acid Extractable Organics Blank - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/16/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 51 %	21-100%	25-121%
Phenol-d5: 37 %	10-94%	24-113%
2,4,6-Tribromophenol: 96 %	10-123%	19-122%

CleanHarbors

Semi-Volatile Base/Neutral Extractable Organics Blank - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/18/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 55 %	35-114%	23-120%
2-Fluorobiphenyl: 51 %	43-116%	30-115%
Terphenyl-d14: 59 %	33-141%	18-137%

CleanHarbors

Semi-Volatile Acid Extractable Organics Blank - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/18/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 49 %	21-100%	25-121%
Phenol-d5: 48 %	10-94%	24-113%
2,4,6-Tribromophenol: 94 %	10-123%	19-122%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc. CHES Lab #: 9511101

Polychlorinated Biphenyls (PCBs) Blank
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/14/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	84.2%	34-104%

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9511101

BLANK ANALYSIS

METALS

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	ND	11/08/95	11/21/95	4.1.1/206.2(a)
Cadmium - Dissolved	0.001	ND	11/08/95	11/14/95	4.1.1/213.2(a)
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)
Zinc - Dissolved	0.04	ND	11/08/95	11/09/95	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9511101

BLANK ANALYSIS

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	11/13/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/10/95	335.1(a)
Cyanide, Total	0.02	ND	mg/l	11/20/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/20/95	335.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight

JN 11/13

CleanHarbors

Clean Harbors Analytical Services, Inc., 325 Wood Rd., Braintree, MA 02184 | CHAIN OF CUSTODY RECORD | Sample Custodian — (617) 849-1800 | Page 1 of

Client: ENGINEERING Project Name: MURPHY'S Work Order/P.O. #: SN-170 Date: 11-8-95

Report To: J. McCREARY Address: 12 MERCER RD NATICK Phone #: EXT 6349

Date Samples Collected: 11-7-95 by: MICHAEL F McKEON Date Samples Received: 11-8-95

Airbill/Bill of Lading? Y (N) NOTE: Samples received unpreserved will be preserved upon arrival at CHAS. Samples were: Preserved Unpreserved

	Sample I.D.	Sampling Information: Date	Time	Station Location	Sample Matrix	VOC'S	S. VOC'S HAC	PCB'S	LEAD	ARSENIC	CADMIUM	ANCHORABLE CHROMIUM	ZINC	# of con.	CHAS Sample # PS 11/8 9511101
10	MR-1SS	11-7			H_2O									6	01AB,B,X,Q,M,O,~~*~~,~~*~~ E NOTE ALL SAMPLES
11	MR-2SS													6	02AB,B,X,Q,M,O,~~E~~ ~~*2~~ E MUST BE ANALYZED
2	MW-1													6	03AB,B,X,Q,M,O,~~*2~~,E FOR PH
16	MW-2													6	04AB,B,X,Q,M,O,* E
5	MW-3													6	05AB,B,X,Q,M,O,E
2	MW-3D									X	X	X	X	X	06AB,B,X,Q,M,O,E,H
14	MW-4													6	07AB,B,X,Q,M,O,E
4	MW-5S													6	08AB,B,X,Q,M,O,E
1	MW-5D													6	09AB,B,X,Q,M,O,F

	VOC'S	S. VOC'S HAC	PCB'S	LEAD	ARSENIC	CADMIUM	ANCHORABLE CHROMIUM	ZINC
VOA Vial	X							
Glass Bottle								
Plastic Bottle								
Pres.	A							
Volume								

Relinquished by: [signature] Date: 11-8-95 Time: 8:00 am

Received by: [signature] Date: 11/8/95 Time: 8:30 am

Relinquished by: Date: Time:

Received by: Date: Time:

Preservation Key: A — Acidified with 1:1 HCl
B — Filtered, C — Sample chilled, D— NaOH,
E — NaThiosulfate, W — Sample Ambient, F — Other

REMARKS/COMMENTS: (Sample storage, nonstandard bottles, cautions, special instructions)
Filter metal samples
Dissolved metals
Graphite lead/AS/Cd

Standard laboratory turnaround time is 2 weeks from date of receipt. Accelerated turnaround may be assessed a surcharge.
Accelerated turnaround requested:
Confirmed by: Surcharge:

Location of samples: R4, R10L3, Quonset, SM

Turnaround: 24 Hrs. 48 Hrs. 1 Week 2 Weeks Other:

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1p/1/13

Clean Harbors Analytical Services, Inc., 325 Wood Rd., Braintree, MA 02184 | CHAIN OF CUSTODY RECORD | Sample Custodian — (617) 849-1800 | Page 2 of

Client: ENGWEERING Project Name: MURPHYS Work Order/P.O. #: EN120 Date: 11-8-95

Report To: J. McCROARY Address: 12 MERCER RD NATICK Phone #: EXT 6399

Date Samples Collected: 11-7-95 by: MICHAEL F McKOON Date Samples Received: 11-8-95

Airbill/Bill of Lading? Y (N) NOTE Samples received unpreserved will be preserved upon arrival at CHAS. Samples were: Preserved Unpreserved

	Sample I.D.	Sampling Information: Date	Time	Station Location	Sample Matrix	Analysis: VOCs	5 VOCs HAC	PCBs	LEAD	ARSENIC	CADMIUM	AMENABLE CYANIDE	ZINC	# of con.	CHAS Sample # 9511101
8	MW-6	11-7			H2O	X	X	X	X					6	10AB,B,X,Q,M,O,E NOTE: All Samples
7	MW-8	↓			↓	↓	↓	↓	↓	X	X	X	X	7	11AB,B,X,Q,M,O,E,H MUST BE ANALYZED
15	MW-9	↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	7	FOR CH 12AB,B,X,Q,M,O,E
3	MW-10	↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	7	13AB,B,X,Q,M,O,E,H
13	MW-11	↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	7	14AB,B,X,Q,M,O,E,H
6	MW-12	↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	7	15AB,B,X,Q,M,O,E,H
1	MW-13	↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	7	16AB,B,X,Q,M,O,E,H
5	BLIND DUPLICATE	↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	7	17AB,B,X,Q,M,O,E,H
	TRIP BLANK	↓			↓	↓	~~↓~~	~~↓~~	~~↓~~					3	18AB,B,X

Relinquished by: [signature] Date: 11-8-95 Time: 9:00 am

Received by: [signature] Date: 11/8/95 Time: 9:00 am

Relinquished by: Date: Time:

Received by: Date: Time:

	VOA Vial	Glass Bottle	Plastic Bottle	Pres.	Volume

Preservation Key: A — Acidified with ____ B — Filtered, C — Sample chilled, D— NaOH, E — NaThiosulfate, W — Sample Ambient, F — Other

REMARKS/COMMENTS: (Sample storage, nonstandard bottles, cautions, special instructions)
Filter metal samples
Dissolved metals
Graphite pest/As/Cd
S. VOCs by 8270 for
full BNA compound list per

Standard laboratory turnaround time is 2 weeks from date of receipt. Accelerated turnaround may be assessed a surcharge.
Accelerated turnaround requested:
Confirmed by: Surcharge:

Location of samples: B4, B10L3, Quonset, SM

Turnaround: 24 Hrs. 48 Hrs. 1 Week 2 Weeks Other:

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Method References

(a) "Methods for Chemical Analysis of Water and Wastes," Publication EPA-600/4-79-020, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, 1979, revised March 1983.

(b) "Standard Methods for the Examination of Water and Wastewater." 18th ed., American Public Health Association, American Water Works Association, Water Pollution Control Federation, Washington, D.C., 1992.

(c) "Test Methods for Evaluating Solid Waste: Physical/Chemical methods," 3rd ed., U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, D.C., November 1986, updated July 1992 and September 1994.

(d) "The Determination of Polychlorinated Biphenyls in Transformer Fluid and Waste Oils," Publication EPA-600/4-81-045, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, September 1982.

(e) "Hazardous Waste Management System; Identification and Listing of Hazardous Waste; Toxicity Characteristic Revisions; Final Rule," Federal Register, Vol. 55, No. 126, Friday, June 29, 1990, and revision in Federal Register, Vol. 57, No. 227, Tuesday, November 24, 1992.

(f) "Guidelines Establishing Test Procedures for Analysis of Pollutants," Code of Federal Regulations, Part 136 Appendix A and Appendix B, July 1, 1993.

(g) "Methods for the Determination of Organic Compounds in Drinking Water," U.S. Environmental Protection Agency, Office of Research and Development, Washington, D.C., December 1988, revised July 1991.

(h) "The Determination of Inorganic Anions in Water by Ion Chromatography - Method 300.0," Publication EPA-600/4-84-017, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, March 1984.

(i) "Hach Water Analysis Handbook," Hach Chemical Company, Loveland, CO, 1992.

(j) "USEPA-CLP Statement of Work for Organic Analysis," Publication OLM01.0 (including revisions, U.S. Environmental Protection Agency, Contract Laboratory Program, August 1991.

(k) "Annual Book of Standards," Section 11: Water and Environmental Technology, Vols. 11.01-11.04, American Society for Testing Materials, Philadelphia, 1989 & 1991.

(l) "Annual Book of Standards," Section 5: Petroleum Products and Lubricants, Vols. 5.01, American Society for Testing Materials, Philadelphia, 1993.

(m) "Annual Book of Standards," Section 4: Construction, Vol. 4.08, American Society for Testing Materials, Philadelphia, 1993.

(n) "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods," 2nd ed., U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, D.C., July 1982, updated April 1984.

(o) "Annual Book of Standards," Section 15: Engine Coolants; Halogenated Organic Solvents, Vol. 15.05,American Society for Testing Materials, Philadelphia, 1995.

[REF-09/21/95]

CleanHarbors
ENVIRONMENTAL SERVICES, INC.
325 WOOD ROAD • BRAINTREE, MA 02184
(617) 849-1800

REPORT OF ANALYSIS

Clean Harbors Environmental Services, Inc.
12 Mercer Road
Natick, MA 01760

Project: MURPHY'S
P.O. #: EN170

Date Received: 11/09/95
CHES Lab #: 9511126

Attn: Mr. Jay McCreery

Enclosed are the results for the sample(s) delivered to our laboratory (DEP Laboratory ID# M-MA032) on the date indicated above.

The methods listed represent those methodologies which were used to develop the best analytical techniques. Analytical results and quality assurance protocols are based on these guidelines. These meet the requirements for the reporting of results under the RCRA, NPDES and Safe Drinking Water Act regulations.

Clean Harbors Environmental Services has an active program of quality assurance and quality control. The program closely follows the guidance provided in the EPA Contract Laboratory Program Statement of Work (organic and inorganic), the guidance provided in SW-846, and many other pertinent documents.

Should you have any questions concerning this work, please do not hesitate to contact me.

The information contained in this report is, to the best of my knowledge, accurate and complete.

Per/Date: Michael J. Murray 11/30/95

Michael J. Murray
Laboratory Manager

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: SW-A,(MW-12)
Sample Type: Water

CHES Lab #: 9511126-01AB
Date Received: 11/09/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/22/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	120 %	72-122%	70-121%
Toluene-d8:	107 %	86-123%	84-138%
p-BFB:	95 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: SW-A,(MW-12)
Sample Type: Water

CHES Lab #: 9511126-01G
Date Received: 11/09/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/15/95
Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Additional compounds observed in sample.
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 48 %	35-114%	23-120%
2-Fluorobiphenyl: 47 %	43-116%	30-115%
Terphenyl-d14: 67 %	33-141%	18-137%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: SW-A,(MW-12)
Sample Type: Water

CHES Lab #: 9511126-01G
Date Received: 11/09/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/15/95
Analysis Date: 11/19/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Additional compounds observed in sample.
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 31 %	21-100%	25-121%
Phenol-d5: 26 %	10-94%	24-113%
2,4,6-Tribromophenol: 87 %	10-123%	19-122%

Appendix H (cont.)

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: SW-A, (MW-12)
Sample Type: Water

CHES Lab #: 9511126-01N
Date Received: 11/09/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/17/95
Analysis Date: 11/21/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	36.6%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: SW-A, (MW-12)
Sample Type: Water

CHES Lab #: 9511126-01H
Date Received: 11/09/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	11/20/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/20/95	335.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: SW-A, (MW-12)
Sample Type: Water

CHES Lab #: 9511126-01M
Date Received: 11/09/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.1	--	11/09/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: SW-B, (MW-13)
Sample Type: Water

CHES Lab #: 9511126-02AB
Date Received: 11/09/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/22/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	43	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	122 %	72-122%	70-121%
Toluene-d8:	108 %	86-123%	84-138%
p-BFB:	95 %	83-123%	59-113%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: SW-B, (MW-13)
Sample Type: Water

CHES Lab #: 9511126-02G
Date Received: 11/09/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/15/95
Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	21	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	52	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	52	ND
Chrysene	10	ND	4-Nitroaniline	52	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	21	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Additional compounds observed in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 49 %	35-114%	23-120%
2-Fluorobiphenyl: 45 %	43-116%	30-115%
Terphenyl-d14: 58 %	33-141%	18-137%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: SW-B,(MW-13)
Sample Type: Water

CHES Lab #: 9511126-02G
Date Received: 11/09/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/15/95
Analysis Date: 11/19/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	52	ND
2,4-Dinitrophenol	52	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	52	ND
Pentachlorophenol	52	ND
Phenol	10	ND
2,4,5-Trichlorophenol	52	ND
2,4,6-Trichlorophenol	52	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Additional compounds observed in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 37 %	21-100%	25-121%
Phenol-d5: 27 %	10-94%	24-113%
2,4,6-Tribromophenol: 74 %	10-123%	19-122%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: SW-B, (MW-13)
Sample Type: Water

CHES Lab #: 9511126-02N
Date Received: 11/09/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/17/95
Analysis Date: 11/21/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	52.4%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: SW-B, (MW-13)
Sample Type: Water

CHES Lab #: 9511126-02M
Date Received: 11/09/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	0.003	11/09/95	11/21/95	4.1.1/206.2(a)
Cadmium - Dissolved	0.001	ND	11/09/95	11/14/95	4.1.1/213.2(a)
Lead - Dissolved	0.002	0.005	11/09/95	11/27/95	4.1.1/239.2(a)
Zinc - Dissolved	0.04	ND	11/09/95	11/15/95	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: SW-B, (MW-13)
Sample Type: Water

CHES Lab #: 9511126-02H
Date Received: 11/09/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	11/20/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/20/95	335.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: SW-B, (MW-13)
Sample Type: Water

CHES Lab #: 9511126-02M
Date Received: 11/09/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.5	--	11/09/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

CleanHarbors

QUALITY CONTROL

REPORT OF ANALYSIS

CHES LAB. NO. 9511126

The attached quality control data were generated during the analysis of these samples. All results have been generated in accordance with the procedures as stated in the Clean Harbors Environmental Services, Inc. Quality Assurance/Quality Control Manual and pertinent standard operating procedures, which are available for review. The attached has been submitted for informational purposes only.

Volatile Organics Blank - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/22/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-Pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4: 118%	72-122%	70-121%
Toluene-d8: 103%	86-123%	84-138%
p-BFB: 89%	83-123%	59-113%

CleanHarbors

Semi-Volatile Base/Neutral Extractable Organics Blank - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/15/95
Analysis Date: 11/16/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 59 %	35-114%	23-120%
2-Fluorobiphenyl: 57 %	43-116%	30-115%
Terphenyl-d14: 54 %	33-141%	18-137%

CleanHarbors

Semi-Volatile Acid Extractable Organics Blank - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/15/95
Analysis Date: 11/16/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 41 %	21-100%	25-121%
Phenol-d5: 31 %	10-94%	24-113%
2,4,6-Tribromophenol: 94 %	10-123%	19-122%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc. **CHES Lab #:** 9511126

Polychlorinated Biphenyls (PCBs) Blank
by EPA Method 608 (ref. f)

Extraction Date: 11/17/95
Analysis Date: 11/21/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	81.4%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc. CHES Lab #: 9511126

BLANK ANALYSIS

METALS

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	ND	11/09/95	11/21/95	4.1.1/206.2(a)
Cadmium - Dissolved	0.001	ND	11/09/95	11/14/95	4.1.1/213.2(a)
Lead - Dissolved	0.002	ND	11/09/95	11/27/95	4.1.1/239.2(a)
Zinc - Dissolved	0.04	ND	11/09/95	11/15/95	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9511126

BLANK ANALYSIS

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	11/20/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/20/95	335.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight

CleanHarbors

11/11/94

Clean Harbors Analytical Services, Inc., 325 Wood Rd., Braintree, MA 02184 | CHAIN OF CUSTODY RECORD | Sample Custodian — (617) 849-1800 | Page 1 of 1

Client: CHES Project Name: Murphys Work Order/P.O. #: EN-120 Date: 11/9/95

Report To: Jay McCreery Address: Natick Phone #: X 6327

Date Samples Collected: 11/9/95 by: SJA Date Samples Received: 11/9/95

Airbill/Bill of Lading? Y (N) NOTE. Samples received unpreserved will be preserved upon arrival at CHAS. Samples were (Preserved), Unpreserved

Sample I.D.	Sampling Information: Date	Time	Station Location	Sample Matrix	Analysis: 8260	SVOC by HPLC	PCBs	As, Pb, Cd, Zn	Ammon. CN	pH			# of con.	CHAS Sample # (11.9.95 RJ) 9511126G
SW-A	11/9	845	MW-12	Water	✓	✓	✓	✓	✓	✓			7	01AB+B, N, M, H, Q, X Filter As, Pb, Cd, Zn sample
SW-B	11/9	900	MW-13	"	✓	✓	✓	✓	✓	✓			7	02AB+B, N, M, H, Q, X G

	VOA Vial	Glass Bottle	Plastic Bottle	Pres.	Volume
8260	✓				
SVOC by HPLC		✓			
PCBs		✓			
As, Pb, Cd, Zn			✓		
Ammon. CN			✓	D	
pH					

Relinquished by: Stephen Goldbaum
Date: 11/9/95 Time: 10:15 AM

Received by: Robert J. [illegible]
Date: 11-9-95 Time: 10:15

Relinquished by:
Date: Time:

Received by:
Date: Time:

Preservation Key: A — Acidified with HCL
B — Filtered, C — Sample chilled, D— NaOH,
E — NaThiosulfate, W — Sample Ambient, F — Other

REMARKS/COMMENTS: (Sample storage, nonstandard bottles, cautions, special instructions)

BNA 8270 list added per Jay McCreery, [illegible]

Standard laboratory turnaround time is 2 weeks from date of receipt. Accelerated turnaround may be assessed a surcharge.
Accelerated turnaround requested:
Confirmed by: Surcharge:

Location of samples: R10L4 / R4

Turnaround: 24 Hrs. 48 Hrs. 1 Week (2 Weeks) Other:

OFFICE COPY

CleanHarbors
ENVIRONMENTAL SERVICES, INC.
325 WOOD ROAD, P.O. BOX 327, BRAINTREE, MA 02184-2402
(617) 849-1800

REPORT OF ANALYSIS

Clean Harbors Environmental Services, Inc.
12 Mercer Road
Natick, MA 01760

Project: MURPHY'S WASTE OIL
P.O. #: EN170

Date Received: 12/18/95
CHES Lab #: 9512201

Attn: Mr. Jay McCreery

Enclosed are the results for the sample(s) delivered to our laboratory (DEP Laboratory ID# M-MA032) on the date indicated above.

The methods listed represent those methodologies which were used to develop the best analytical techniques. Analytical results and quality assurance protocols are based on these guidelines. These meet the requirements for the reporting of results under the RCRA, NPDES and Safe Drinking Water Act regulations.

Clean Harbors Environmental Services has an active program of quality assurance and quality control. The program closely follows the guidance provided in the EPA Contract Laboratory Program Statement of Work (organic and inorganic), the guidance provided in SW-846, and many other pertinent documents.

Should you have any questions concerning this work, please do not hesitate to contact me.

The information contained in this report is, to the best of my knowledge, accurate and complete.

Per/Date: Michael J. Murray 1/6/96

Michael J. Murray
Laboratory Manager

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-1
Sample Type: Water

CHES Lab #: 9512201-01AB
Date Received: 12/18/95

Volatile Organics - System D
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	99 %	72-122%	70-121%
Toluene-d8:	109 %	86-123%	84-138%
p-BFB:	102 %	83-123%	59-113%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-1
Sample Type: Water

CHES Lab #: 9512201-01G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/22/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 62 %	35-114%	23-120%
2-Fluorobiphenyl: 73 %	43-116%	30-115%
Terphenyl-d14: 66 %	33-141%	18-137%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-1
Sample Type: Water

CHES Lab #: 9512201-01G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/22/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 15 %	21-100%	25-121%
Phenol-d5: 15 %	10-94%	24-113%
2,4,6-Tribromophenol: 37 %	10-123%	19-122%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-1
Sample Type: Water

CHES Lab #: 9512201-010
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/27/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	79.4%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-1
Sample Type: Water

CHES Lab #: 9512201-01E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.005	ND	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-1
Sample Type: Water

CHES Lab #: 9512201-01M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.0	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-2
Sample Type: Water

CHES Lab #: 9512201-02AB
Date Received: 12/18/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 12/30/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	28	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	106 %	72-122%	70-121%
Toluene-d8:	116 %	86-123%	84-138%
p-BFB:	100 %	83-123%	59-113%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-2
Sample Type: Water

CHES Lab #: 9512201-02G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/22/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 62 %	35-114%	23-120%
2-Fluorobiphenyl: 71 %	43-116%	30-115%
Terphenyl-d14: 55 %	33-141%	18-137%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-2
Sample Type: Water

CHES Lab #: 9512201-02G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/22/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 38 %	21-100%	25-121%
Phenol-d5: 29 %	10-94%	24-113%
2,4,6-Tribromophenol: 95 %	10-123%	19-122%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-2
Sample Type: Water

CHES Lab #: 9512201-020
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/27/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	88.8%	34-104%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-2
Sample Type: Water

CHES Lab #: 9512201-02E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.005	ND	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-2
Sample Type: Water

CHES Lab #: 9512201-02M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	5.9	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3
Sample Type: Water

CHES Lab #: 9512201-03AB
Date Received: 12/18/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 12/30/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	100	ND	1,2-Dichloropropane	25	ND
Benzene	25	ND	cis-1,3-Dichloropropene	25	ND
Bromodichloromethane	25	ND	trans-1,3-Dichloropropene	25	ND
Bromoform	25	ND	Ethylbenzene	25	ND
Bromomethane	50	ND	2-Hexanone	25	ND
2-Butanone	100	ND	Methylene chloride	100	ND
Carbon disulfide	50	ND	4-Methyl-2-pentanone	25	ND
Carbon tetrachloride	25	ND	Methyl-t-butylether (MTBE)	50	ND
Chlorobenzene	25	ND	Styrene	25	ND
Chloroethane	50	ND	1,1,2,2-Tetrachloroethane	25	ND
2-Chloroethyl vinyl ether	50	ND	Tetrachloroethene	25	ND
Chloroform	25	ND	Toluene	25	ND
Chloromethane	50	ND	1,1,1-Trichloroethane	25	220
Dibromochloromethane	25	ND	1,1,2-Trichloroethane	25	ND
Dibromoethane (EDB)	25	ND	Trichloroethene	25	220
1,1-Dichloroethane	25	170	Trichlorofluoromethane	25	ND
1,2-Dichloroethane	25	ND	Vinyl acetate	50	ND
1,1-Dichloroethene	25	ND	Vinyl chloride	50	ND
trans-1,2-Dichloroethene	25	3,100	Total xylenes	25	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	109 %	72-122%	70-121%
Toluene-d8:	117 %	86-123%	84-138%
p-BFB:	99 %	83-123%	59-113%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3
Sample Type: Water

CHES Lab #: 9512201-03G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/22/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 37 %	35-114%	23-120%
2-Fluorobiphenyl: 55 %	43-116%	30-115%
Terphenyl-d14: 49 %	33-141%	18-137%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3
Sample Type: Water

CHES Lab #: 9512201-03G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/22/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 20 %	21-100%	25-121%
Phenol-d5: 22 %	10-94%	24-113%
2,4,6-Tribromophenol: 79 %	10-123%	19-122%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3
Sample Type: Water

CHES Lab #: 9512201-030
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/27/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	77.5%	34-104%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3
Sample Type: Water

CHES Lab #: 9512201-03E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	ND	12/19/95	12/20/95	4.1.1/206.2(a)
Lead - Dissolved	0.005	ND	12/19/95	01/02/96	4.1.1/239.2(a)
Zinc - Dissolved	0.04	ND	12/19/95	01/04/96	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3
Sample Type: Water

CHES Lab #: 9512201-03M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	5.4	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D
Sample Type: Water

CHES Lab #: 9512201-04AB
Date Received: 12/18/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	105 %	72-122%	70-121%
Toluene-d8:	119 %	86-123%	84-138%
p-BFB:	103 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D
Sample Type: Water

CHES Lab #: 9512201-04G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/22/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 57 %	35-114%	23-120%
2-Fluorobiphenyl: 69 %	43-116%	30-115%
Terphenyl-d14: 54 %	33-141%	18-137%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D
Sample Type: Water

CHES Lab #: 9512201-04G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/22/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 24 %	21-100%	25-121%
Phenol-d5: 23 %	10-94%	24-113%
2,4,6-Tribromophenol: 50 %	10-123%	19-122%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D
Sample Type: Water

CHES Lab #: 9512201-040
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/27/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	87.2%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D
Sample Type: Water

CHES Lab #: 9512201-04E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.005	ND	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D
Sample Type: Water

CHES Lab #: 9512201-04M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.1	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-4
Sample Type: Water

CHES Lab #: 9512201-05AB
Date Received: 12/18/95

Volatile Organics - System D
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	91 %	72-122%	70-121%
Toluene-d8:	107 %	86-123%	84-138%
p-BFB:	104 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-4
Sample Type: Water

CHES Lab #: 9512201-05G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/22/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
.* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 43 %	35-114%	23-120%
2-Fluorobiphenyl: 49 %	43-116%	30-115%
Terphenyl-d14: 48 %	33-141%	18-137%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-4
Sample Type: Water

CHES Lab #: 9512201-05G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/22/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 28 %	21-100%	25-121%
Phenol-d5: 24 %	10-94%	24-113%
2,4,6-Tribromophenol: 68 %	10-123%	19-122%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-4
Sample Type: Water

CHES Lab #: 9512201-050
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	75.3%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-4
Sample Type: Water

CHES Lab #: 9512201-05E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.005	ND	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-4
Sample Type: Water

CHES Lab #: 9512201-05M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	5.8	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5S
Sample Type: Water

CHES Lab #: 9512201-06AB
Date Received: 12/18/95

Volatile Organics - System D
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	90 %	72-122%	70-121%
Toluene-d8:	112 %	86-123%	84-138%
p-BFB:	109 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5S
Sample Type: Water

CHES Lab #: 9512201-06G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/26/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 58 %	35-114%	23-120%
2-Fluorobiphenyl: 65 %	43-116%	30-115%
Terphenyl-d14: 55 %	33-141%	18-137%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5S
Sample Type: Water

CHES Lab #: 9512201-06G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/26/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 33 %	21-100%	25-121%
Phenol-d5: 26 %	10-94%	24-113%
2,4,6-Tribromophenol: 75 %	10-123%	19-122%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5S
Sample Type: Water

CHES Lab #: 9512201-060
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	79.2%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5S
Sample Type: Water

CHES Lab #: 9512201-06E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.005	ND	12/19/95	01/02/96	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5S
Sample Type: Water

CHES Lab #: 9512201-06M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.1	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5D
Sample Type: Water

CHES Lab #: 9512201-07AB
Date Received: 12/18/95

Volatile Organics - System D
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	114 %	72-122%	70-121%
Toluene-d8:	119 %	86-123%	84-138%
p-BFB:	110 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5D
Sample Type: Water

CHES Lab #: 9512201-07G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/26/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 72 %	35-114%	23-120%
2-Fluorobiphenyl: 70 %	43-116%	30-115%
Terphenyl-d14: 58 %	33-141%	18-137%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5D
Sample Type: Water

CHES Lab #: 9512201-07G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/26/95

Parameter	**PQL***	**Conc.***
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 26 %	21-100%	25-121%
Phenol-d5: 23 %	10-94%	24-113%
2,4,6-Tribromophenol: 50 %	10-123%	19-122%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5D
Sample Type: Water

CHES Lab #: 9512201-070
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	89.6%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5D
Sample Type: Water

CHES Lab #: 9512201-07E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	ND	12/19/95	12/20/95	4.1.1/206.2(a)
Lead - Dissolved	0.005	ND	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5D
Sample Type: Water

CHES Lab #: 9512201-07M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.3	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-6
Sample Type: Water

CHES Lab #: 9512201-08AB
Date Received: 12/18/95

Volatile Organics - System D
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	122 %	72-122%	70-121%
Toluene-d8:	117 %	86-123%	84-138%
p-BFB:	114 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-6
Sample Type: Water

CHES Lab #: 9512201-08G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/27/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 56 %	35-114%	23-120%
2-Fluorobiphenyl: 53 %	43-116%	30-115%
Terphenyl-d14: 51 %	33-141%	18-137%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-6
Sample Type: Water

CHES Lab #: 9512201-08G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/27/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 41 %	21-100%	25-121%
Phenol-d5: 30 %	10-94%	24-113%
2,4,6-Tribromophenol: 76 %	10-123%	19-122%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-6
Sample Type: Water

CHES Lab #: 9512201-080
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	84.7%	34-104%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-6
Sample Type: Water

CHES Lab #: 9512201-08E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.005	ND	12/19/95	01/02/96	4.1.1/239.2(a)
Zinc - Dissolved	0.04	ND	12/19/95	01/04/96	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-6
Sample Type: Water

CHES Lab #: 9512201-08M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	5.8	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-7
Sample Type: Water

CHES Lab #: 9512201-09AB
Date Received: 12/18/95

Volatile Organics - System D
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	100	ND	1,2-Dichloropropane	25	ND
Benzene	25	ND	cis-1,3-Dichloropropene	25	ND
Bromodichloromethane	25	ND	trans-1,3-Dichloropropene	25	ND
Bromoform	25	ND	Ethylbenzene	25	ND
Bromomethane	50	ND	2-Hexanone	25	ND
2-Butanone	100	ND	Methylene chloride	100	ND
Carbon disulfide	50	ND	4-Methyl-2-pentanone	25	ND
Carbon tetrachloride	25	ND	Methyl-t-butylether (MTBE)	50	ND
Chlorobenzene	25	ND	Styrene	25	ND
Chloroethane	50	ND	1,1,2,2-Tetrachloroethane	25	ND
2-Chloroethyl vinyl ether	50	ND	Tetrachloroethene	25	ND
Chloroform	25	ND	Toluene	25	ND
Chloromethane	50	ND	1,1,1-Trichloroethane	25	ND
Dibromochloromethane	25	ND	1,1,2-Trichloroethane	25	ND
Dibromoethane (EDB)	25	ND	Trichloroethene	25	ND
1,1-Dichloroethane	25	ND	Trichlorofluoromethane	25	ND
1,2-Dichloroethane	25	ND	Vinyl acetate	50	ND
1,1-Dichloroethene	25	ND	Vinyl chloride	50	ND
trans-1,2-Dichloroethene	25	ND	Total xylenes	25	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	102 %	72-122%	70-121%
Toluene-d8:	108 %	86-123%	84-138%
p-BFB:	104 %	83-123%	59-113%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-7
Sample Type: Water

CHES Lab #: 9512201-09G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/26/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	94	ND	Dimethylphthalate	94	ND
Acenaphthylene	94	ND	Di-n-butylphthalate	94	ND
Anthracene	94	ND	2,4-Dinitrotoluene	94	ND
Benzo(a)anthracene	94	ND	2,6-Dinitrotoluene	94	ND
Benzo(a)pyrene	94	ND	Di-n-octylphthalate	94	ND
Benzo(b)fluoranthene	94	ND	Fluoranthene	94	ND
Benzo(g,h,i)perylene	94	ND	Fluorene	94	ND
Benzo(k)fluoranthene	94	ND	Hexachlorobenzene	94	ND
Bis(2-chloroethoxy)methane	94	ND	Hexachlorobutadiene	94	ND
Bis(2-chloroethyl)ether	94	ND	Hexachlorocyclopentadiene	94	ND
Bis(2-chloroisopropyl)ether	94	ND	Hexachloroethane	94	ND
Bis(2-ethylhexyl)phthalate	190	ND	Indeno(1,2,3-cd)pyrene	94	ND
4-Bromophenyl phenyl ether	94	ND	Isophorone	94	ND
Butylbenzylphthalate	94	ND	2-Methylnaphthalene	94	ND
4-Chloroaniline	94	ND	Naphthalene	94	ND
2-Chloronaphthalene	94	ND	2-Nitroaniline	470	ND
4-Chlorophenyl phenyl ether	94	ND	3-Nitroaniline	470	ND
Chrysene	94	ND	4-Nitroaniline	470	ND
Dibenzo(a,h)anthracene	94	ND	Nitrobenzene	94	ND
Dibenzofuran	94	ND	N-Nitroso-di-n-propylamine	94	ND
1,2-Dichlorobenzene	94	ND	N-Nitrosodiphenylamine	94	ND
1,3-Dichlorobenzene	94	ND	Phenanthrene	94	ND
1,4-Dichlorobenzene	94	ND	Pyrene	94	ND
3,3'-Dichlorobenzidine	190	ND	1,2,4-Trichlorobenzene	94	ND
Diethylphthalate	94	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
NA = Due to dilutions necessary to analyze the sample, the surrogate recoveries were unable to be calculated.
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: NA	35-114%	23-120%
2-Fluorobiphenyl: NA	43-116%	30-115%
Terphenyl-d14: NA	33-141%	18-137%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-7
Sample Type: Water

CHES Lab #: 9512201-09G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/26/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	94	ND
2-Chlorophenol	94	ND
2,4-Dichlorophenol	94	ND
2,4-Dimethylphenol	94	ND
4,6-Dinitro-2-methylphenol	470	ND
2,4-Dinitrophenol	470	ND
2-Methylphenol	94	ND
4-Methylphenol	94	ND
2-Nitrophenol	94	ND
4-Nitrophenol	470	ND
Pentachlorophenol	470	ND
Phenol	94	ND
2,4,5-Trichlorophenol	470	ND
2,4,6-Trichlorophenol	470	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
NA = Due to dilutions necessary to analyze the sample, the surrogate recoveries were unable to be calculated. Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: NA	21-100%	25-121%
Phenol-d5: NA	10-94%	24-113%
2,4,6-Tribromophenol: NA	10-123%	19-122%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-7
Sample Type: Water

CHES Lab #: 9512201-090
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	94.1%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-7
Sample Type: Water

CHES Lab #: 9512201-09E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.005	0.006	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-7
Sample Type: Water

CHES Lab #: 9512201-09M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.3	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-8
Sample Type: Water

CHES Lab #: 9512201-10AB
Date Received: 12/18/95

Volatile Organics - System D
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	6	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	88 %	72-122%	70-121%
Toluene-d8:	104 %	86-123%	84-138%
p-BFB:	96 %	83-123%	59-113%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-8
Sample Type: Water

CHES Lab #: 9512201-10G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/26/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 49 %	35-114%	23-120%
2-Fluorobiphenyl: 54 %	43-116%	30-115%
Terphenyl-d14: 50 %	33-141%	18-137%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-8
Sample Type: Water

CHES Lab #: 9512201-10G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/26/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 37 %	21-100%	25-121%
Phenol-d5: 27 %	10-94%	24-113%
2,4,6-Tribromophenol: 89 %	10-123%	19-122%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-8
Sample Type: Water

CHES Lab #: 9512201-100
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	83.4%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-8
Sample Type: Water

CHES Lab #: 9512201-10E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.005	ND	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-8
Sample Type: Water

CHES Lab #: 9512201-10M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.2	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9
Sample Type: Water

CHES Lab #: 9512201-11AB
Date Received: 12/18/95

Volatile Organics - System D
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	12
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	31
1,1-Dichloroethane	5	5	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	108 %	72-122%	70-121%
Toluene-d8:	112 %	86-123%	84-138%
p-BFB:	106 %	83-123%	59-113%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9
Sample Type: Water

CHES Lab #: 9512201-11G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/26/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	51	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	51	ND
Chrysene	10	ND	4-Nitroaniline	51	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 50 %	35-114%	23-120%
2-Fluorobiphenyl: 61 %	43-116%	30-115%
Terphenyl-d14: 68 %	33-141%	18-137%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9
Sample Type: Water

CHES Lab #: 9512201-11G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/26/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	51	ND
2,4-Dinitrophenol	51	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	51	ND
Pentachlorophenol	51	ND
Phenol	10	ND
2,4,5-Trichlorophenol	51	ND
2,4,6-Trichlorophenol	51	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 41 %	21-100%	25-121%
Phenol-d5: 31 %	10-94%	24-113%
2,4,6-Tribromophenol: 92 %	10-123%	19-122%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9
Sample Type: Water

CHES Lab #: 9512201-110
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	77.7%	34-104%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9
Sample Type: Water

CHES Lab #: 9512201-11E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.005	0.006	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9
Sample Type: Water

CHES Lab #: 9512201-11M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	5.8	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10
Sample Type: Water

CHES Lab #: 9512201-12AB
Date Received: 12/18/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	107 %	72-122%	70-121%
Toluene-d8:	123 %	86-123%	84-138%
p-BFB:	109 %	83-123%	59-113%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10
Sample Type: Water

CHES Lab #: 9512201-12G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Additional compounds observed in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 65 %	35-114%	23-120%
2-Fluorobiphenyl: 62 %	43-116%	30-115%
Terphenyl-d14: 48 %	33-141%	18-137%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10
Sample Type: Water

CHES Lab #: 9512201-12G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Additional compounds observed in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 36 %	21-100%	25-121%
Phenol-d5: 29 %	10-94%	24-113%
2,4,6-Tribromophenol: 54 %	10-123%	19-122%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10
Sample Type: Water

CHES Lab #: 9512201-120
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	78.7%	34-104%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10
Sample Type: Water

CHES Lab #: 9512201-12E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.001	ND	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10
Sample Type: Water

CHES Lab #: 9512201-12M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.2	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11
Sample Type: Water

CHES Lab #: 9512201-13AB
Date Received: 12/18/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	100	ND	1,2-Dichloropropane	25	ND
Benzene	25	ND	cis-1,3-Dichloropropene	25	ND
Bromodichloromethane	25	ND	trans-1,3-Dichloropropene	25	ND
Bromoform	25	ND	Ethylbenzene	25	ND
Bromomethane	50	ND	2-Hexanone	25	ND
2-Butanone	100	ND	Methylene chloride	100	ND
Carbon disulfide	50	ND	4-Methyl-2-pentanone	25	ND
Carbon tetrachloride	25	ND	Methyl-t-butylether (MTBE)	50	ND
Chlorobenzene	25	ND	Styrene	25	ND
Chloroethane	50	ND	1,1,2,2-Tetrachloroethane	25	ND
2-Chloroethyl vinyl ether	50	ND	Tetrachloroethene	25	ND
Chloroform	25	ND	Toluene	25	ND
Chloromethane	50	ND	1,1,1-Trichloroethane	25	380
Dibromochloromethane	25	ND	1,1,2-Trichloroethane	25	ND
Dibromoethane (EDB)	25	ND	Trichloroethene	25	ND
1,1-Dichloroethane	25	230	Trichlorofluoromethane	25	ND
1,2-Dichloroethane	25	ND	Vinyl acetate	50	ND
1,1-Dichloroethene	25	ND	Vinyl chloride	50	ND
trans-1,2-Dichloroethene	25	ND	Total xylenes	25	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	98 %	72-122%	70-121%
Toluene-d8:	112 %	86-123%	84-138%
p-BFB:	97 %	83-123%	59-113%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11
Sample Type: Water

CHES Lab #: 9512201-13G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 41 %	35-114%	23-120%
2-Fluorobiphenyl: 39 %	43-116%	30-115%
Terphenyl-d14: 87 %	33-141%	18-137%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11
Sample Type: Water

CHES Lab #: 9512201-13G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 28 %	21-100%	25-121%
Phenol-d5: 23 %	10-94%	24-113%
2,4,6-Tribromophenol: 84 %	10-123%	19-122%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11
Sample Type: Water

CHES Lab #: 9512201-130
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	74.5%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11
Sample Type: Water

CHES Lab #: 9512201-13E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	ND	12/19/95	12/20/95	4.1.1/206.2(a)
Lead - Dissolved	0.001	ND	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11
Sample Type: Water

CHES Lab #: 9512201-13M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	5.6	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9512201-14AB
Date Received: 12/18/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	40	ND	1,2-Dichloropropane	10	ND
Benzene	10	ND	cis-1,3-Dichloropropene	10	ND
Bromodichloromethane	10	ND	trans-1,3-Dichloropropene	10	ND
Bromoform	10	ND	Ethylbenzene	10	ND
Bromomethane	20	ND	2-Hexanone	10	ND
2-Butanone	40	ND	Methylene chloride	40	ND
Carbon disulfide	20	ND	4-Methyl-2-pentanone	10	ND
Carbon tetrachloride	10	ND	Methyl-t-butylether (MTBE)	20	ND
Chlorobenzene	10	ND	Styrene	10	ND
Chloroethane	20	ND	1,1,2,2-Tetrachloroethane	10	ND
2-Chloroethyl vinyl ether	20	ND	Tetrachloroethene	10	ND
Chloroform	10	ND	Toluene	10	ND
Chloromethane	20	ND	1,1,1-Trichloroethane	10	ND
Dibromochloromethane	10	ND	1,1,2-Trichloroethane	10	ND
Dibromoethane (EDB)	10	ND	Trichloroethene	10	ND
1,1-Dichloroethane	10	15	Trichlorofluoromethane	10	ND
1,2-Dichloroethane	10	ND	Vinyl acetate	20	ND
1,1-Dichloroethene	10	ND	Vinyl chloride	20	ND
trans-1,2-Dichloroethene	10	150	Total xylenes	10	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	98 %	72-122%	70-121%
Toluene-d8:	109 %	86-123%	84-138%
p-BFB:	95 %	83-123%	59-113%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9512201-14G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	23	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 60 %	35-114%	23-120%
2-Fluorobiphenyl: 59 %	43-116%	30-115%
Terphenyl-d14: 57 %	33-141%	18-137%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9512201-14G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 45 %	21-100%	25-121%
Phenol-d5: 35 %	10-94%	24-113%
2,4,6-Tribromophenol: 87 %	10-123%	19-122%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9512201-140
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	65.3%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9512201-14E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	ND	12/19/95	12/20/95	4.1.1/206.2(a)
Lead - Dissolved	0.001	ND	12/19/95	01/02/96	4.1.1/239.2(a)
Zinc - Dissolved	0.04	2.0	12/19/95	01/04/96	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9512201-14M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.5	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9512201-15AB
Date Received: 12/18/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 12/31/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	101 %	72-122%	70-121%
Toluene-d8:	115 %	86-123%	84-138%
p-BFB:	97 %	83-123%	59-113%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9512201-15G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	19	ND	Dimethylphthalate	19	ND
Acenaphthylene	19	ND	Di-n-butylphthalate	19	ND
Anthracene	19	ND	2,4-Dinitrotoluene	19	ND
Benzo(a)anthracene	19	ND	2,6-Dinitrotoluene	19	ND
Benzo(a)pyrene	19	ND	Di-n-octylphthalate	19	ND
Benzo(b)fluoranthene	19	ND	Fluoranthene	19	ND
Benzo(g,h,i)perylene	19	ND	Fluorene	19	ND
Benzo(k)fluoranthene	19	ND	Hexachlorobenzene	19	ND
Bis(2-chloroethoxy)methane	19	ND	Hexachlorobutadiene	19	ND
Bis(2-chloroethyl)ether	19	ND	Hexachlorocyclopentadiene	19	ND
Bis(2-chloroisopropyl)ether	19	ND	Hexachloroethane	19	ND
Bis(2-ethylhexyl)phthalate	38	ND	Indeno(1,2,3-cd)pyrene	19	ND
4-Bromophenyl phenyl ether	19	ND	Isophorone	19	ND
Butylbenzylphthalate	19	ND	2-Methylnaphthalene	19	ND
4-Chloroaniline	19	ND	Naphthalene	19	ND
2-Chloronaphthalene	19	ND	2-Nitroaniline	94	ND
4-Chlorophenyl phenyl ether	19	ND	3-Nitroaniline	94	ND
Chrysene	19	ND	4-Nitroaniline	94	ND
Dibenzo(a,h)anthracene	19	ND	Nitrobenzene	19	ND
Dibenzofuran	19	ND	N-Nitroso-di-n-propylamine	19	ND
1,2-Dichlorobenzene	19	ND	N-Nitrosodiphenylamine	19	ND
1,3-Dichlorobenzene	19	ND	Phenanthrene	19	ND
1,4-Dichlorobenzene	19	ND	Pyrene	19	ND
3,3'-Dichlorobenzidine	38	ND	1,2,4-Trichlorobenzene	19	ND
Diethylphthalate	19	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Additional compounds observed in sample.
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 67 %	35-114%	23-120%
2-Fluorobiphenyl: 76 %	43-116%	30-115%
Terphenyl-d14: 62 %	33-141%	18-137%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9512201-15G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	19	ND
2-Chlorophenol	19	ND
2,4-Dichlorophenol	19	ND
2,4-Dimethylphenol	19	ND
4,6-Dinitro-2-methylphenol	94	ND
2,4-Dinitrophenol	94	ND
2-Methylphenol	19	ND
4-Methylphenol	19	ND
2-Nitrophenol	19	ND
4-Nitrophenol	94	ND
Pentachlorophenol	94	ND
Phenol	19	ND
2,4,5-Trichlorophenol	94	ND
2,4,6-Trichlorophenol	94	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Additional compounds observed in sample.
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 48 %	21-100%	25-121%
Phenol-d5: 41 %	10-94%	24-113%
2,4,6-Tribromophenol: 102 %	10-123%	19-122%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9512201-150
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	3.8	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	88.5%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9512201-15E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.001	ND	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9512201-15M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.3	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-1SS
Sample Type: Water

CHES Lab #: 9512201-16AB
Date Received: 12/18/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	101 %	72-122%	70-121%
Toluene-d8:	118 %	86-123%	84-138%
p-BFB:	101 %	83-123%	59-113%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-1SS
Sample Type: Water

CHES Lab #: 9512201-16G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 66 %	35-114%	23-120%
2-Fluorobiphenyl: 61 %	43-116%	30-115%
Terphenyl-d14: 44 %	33-141%	18-137%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-1SS
Sample Type: Water

CHES Lab #: 9512201-16G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 51 %	21-100%	25-121%
Phenol-d5: 39 %	10-94%	24-113%
2,4,6-Tribromophenol: 75 %	10-123%	19-122%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-1SS
Sample Type: Water

CHES Lab #: 9512201-160
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	62.6%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-1SS
Sample Type: Water

CHES Lab #: 9512201-16E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.001	ND	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-1SS
Sample Type: Water

CHES Lab #: 9512201-16M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.1	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-2SS
Sample Type: Water

CHES Lab #: 9512201-17AB
Date Received: 12/18/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	5	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	12
trans-1,2-Dichloroethene	5	140	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	104 %	72-122%	70-121%
Toluene-d8:	115 %	86-123%	84-138%
p-BFB:	103 %	83-123%	59-113%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-2SS
Sample Type: Water

CHES Lab #: 9512201-17G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	19	ND	Dimethylphthalate	19	ND
Acenaphthylene	19	ND	Di-n-butylphthalate	19	ND
Anthracene	19	ND	2,4-Dinitrotoluene	19	ND
Benzo(a)anthracene	19	ND	2,6-Dinitrotoluene	19	ND
Benzo(a)pyrene	19	ND	Di-n-octylphthalate	19	ND
Benzo(b)fluoranthene	19	ND	Fluoranthene	19	ND
Benzo(g,h,i)perylene	19	ND	Fluorene	19	ND
Benzo(k)fluoranthene	19	ND	Hexachlorobenzene	19	ND
Bis(2-chloroethoxy)methane	19	ND	Hexachlorobutadiene	19	ND
Bis(2-chloroethyl)ether	19	ND	Hexachlorocyclopentadiene	19	ND
Bis(2-chloroisopropyl)ether	19	ND	Hexachloroethane	19	ND
Bis(2-ethylhexyl)phthalate	38	ND	Indeno(1,2,3-cd)pyrene	19	ND
4-Bromophenyl phenyl ether	19	ND	Isophorone	19	ND
Butylbenzylphthalate	19	ND	2-Methylnaphthalene	19	ND
4-Chloroaniline	19	ND	Naphthalene	19	ND
2-Chloronaphthalene	19	ND	2-Nitroaniline	94	ND
4-Chlorophenyl phenyl ether	19	ND	3-Nitroaniline	94	ND
Chrysene	19	ND	4-Nitroaniline	94	ND
Dibenzo(a,h)anthracene	19	ND	Nitrobenzene	19	ND
Dibenzofuran	19	ND	N-Nitroso-di-n-propylamine	19	ND
1,2-Dichlorobenzene	19	ND	N-Nitrosodiphenylamine	19	ND
1,3-Dichlorobenzene	19	ND	Phenanthrene	19	ND
1,4-Dichlorobenzene	19	ND	Pyrene	19	ND
3,3'-Dichlorobenzidine	38	ND	1,2,4-Trichlorobenzene	19	ND
Diethylphthalate	19	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 72 %	35-114%	23-120%
2-Fluorobiphenyl: 78 %	43-116%	30-115%
Terphenyl-d14: 66 %	33-141%	18-137%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-2SS
Sample Type: Water

CHES Lab #: 9512201-17G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	19	ND
2-Chlorophenol	19	ND
2,4-Dichlorophenol	19	ND
2,4-Dimethylphenol	19	ND
4,6-Dinitro-2-methylphenol	94	ND
2,4-Dinitrophenol	94	ND
2-Methylphenol	19	ND
4-Methylphenol	19	ND
2-Nitrophenol	19	ND
4-Nitrophenol	94	ND
Pentachlorophenol	94	ND
Phenol	19	ND
2,4,5-Trichlorophenol	94	ND
2,4,6-Trichlorophenol	94	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 49 %	21-100%	25-121%
Phenol-d5: 39 %	10-94%	24-113%
2,4,6-Tribromophenol: 99 %	10-123%	19-122%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-2SS
Sample Type: Water

CHES Lab #: 9512201-170
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	74.8%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-2SS
Sample Type: Water

CHES Lab #: 9512201-17E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.005	0.009	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-2SS
Sample Type: Water

CHES Lab #: 9512201-17M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.0	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: BLIND DUPLICATE (MW-3)
Sample Type: Water

CHES Lab #: 9512201-18AB
Date Received: 12/18/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	1000	ND	1,2-Dichloropropane	250	ND
Benzene	250	ND	cis-1,3-Dichloropropene	250	ND
Bromodichloromethane	250	ND	trans-1,3-Dichloropropene	250	ND
Bromoform	250	ND	Ethylbenzene	250	ND
Bromomethane	500	ND	2-Hexanone	250	ND
2-Butanone	1000	ND	Methylene chloride	1000	ND
Carbon disulfide	500	ND	4-Methyl-2-pentanone	250	ND
Carbon tetrachloride	250	ND	Methyl-t-butylether (MTBE)	500	ND
Chlorobenzene	250	ND	Styrene	250	ND
Chloroethane	500	ND	1,1,2,2-Tetrachloroethane	250	ND
2-Chloroethyl vinyl ether	500	ND	Tetrachloroethene	250	ND
Chloroform	250	ND	Toluene	250	ND
Chloromethane	500	ND	1,1,1-Trichloroethane	250	360
Dibromochloromethane	250	ND	1,1,2-Trichloroethane	250	ND
Dibromoethane (EDB)	250	ND	Trichloroethene	250	400
1,1-Dichloroethane	250	250	Trichlorofluoromethane	250	ND
1,2-Dichloroethane	250	ND	Vinyl acetate	500	ND
1,1-Dichloroethene	250	ND	Vinyl chloride	500	ND
trans-1,2-Dichloroethene	250	5,300	Total xylenes	250	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	109 %	72-122%	70-121%
Toluene-d8:	121 %	86-123%	84-138%
p-BFB:	106 %	83-123%	59-113%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: BLIND DUPLICATE (MW-3)
Sample Type: Water

CHES Lab #: 9512201-18G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 63 %	35-114%	23-120%
2-Fluorobiphenyl: 63 %	43-116%	30-115%
Terphenyl-d14: 56 %	33-141%	18-137%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: BLIND DUPLICATE (MW-3)
Sample Type: Water

CHES Lab #: 9512201-18G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l
Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 44 %	21-100%	25-121%
Phenol-d5: 36 %	10-94%	24-113%
2,4,6-Tribromophenol: 85 %	10-123%	19-122%

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: BLIND DUPLICATE (MW-3)
Sample Type: Water

CHES Lab #: 9512201-180
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	67.1%	34-104%

CleanHarbors

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: BLIND DUPLICATE (MW-3)
Sample Type: Water

CHES Lab #: 9512201-18E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.005	0.013	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: BLIND DUPLICATE(MW-3)
Sample Type: Water

CHES Lab #: 9512201-18M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	5.5	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: TRIP BLANK
Sample Type: Water

CHES Lab #: 9512201-19AB
Date Received: 12/18/95

Volatile Organics - System D
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes
ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:		Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4:	101 %	72-122%	70-121%
Toluene-d8:	108 %	86-123%	84-138%
p-BFB:	104 %	83-123%	59-113%

QUALITY CONTROL

REPORT OF ANALYSIS

CHES LAB. NO. 9512201

The attached quality control data were generated during the analysis of these samples. All results have been generated in accordance with the procedures as stated in the Clean Harbors Environmental Services, Inc. Quality Assurance/Quality Control Manual and pertinent standard operating procedures, which are available for review. The attached has been submitted for informational purposes only.

Volatile Organics Blank - System E
by EPA Method 624 (ref. f)

Analysis Date: 12/30/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-Pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 105%
Toluene-d8: 117%
p-BFB: 100%

Acceptance Criteria:

Water	Soil
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%

Volatile Organics Blank - System E
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-Pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4: 98%	72-122%	70-121%
Toluene-d8: 115%	86-123%	84-138%
p-BFB: 100%	83-123%	59-113%

Volatile Organics Blank - System D
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-Pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
1,2-Dichloroethane-d4: 100%	72-122%	70-121%
Toluene-d8: 109%	86-123%	84-138%
p-BFB: 107%	83-123%	59-113%

CleanHarbors

Volatile Organics Blank - System E
by EPA Method 624 (ref. f)

Analysis Date: 12/31/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-Pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 103%
Toluene-d8: 117%
p-BFB: 101%

Acceptance Criteria:

Water	Soil
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%

CleanHarbors

Semi-Volatile Base/Neutral Extractable Organics Blank - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/22/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 60 %	35-114%	23-120%
2-Fluorobiphenyl: 62 %	43-116%	30-115%
Terphenyl-d14: 57 %	33-141%	18-137%

CleanHarbors

Semi-Volatile Acid Extractable Organics Blank - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/22/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 22 %	21-100%	25-121%
Phenol-d5: 25 %	10-94%	24-113%
2,4,6-Tribromophenol: 64 %	10-123%	19-122%

CleanHarbors

Semi-Volatile Base/Neutral Extractable Organics Blank - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
Nitrobenzene-d5: 62 %	35-114%	23-120%
2-Fluorobiphenyl: 63 %	43-116%	30-115%
Terphenyl-d14: 55 %	33-141%	18-137%

Semi-Volatile Acid Extractable Organics Blank - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:	Acceptance Criteria: Water	Acceptance Criteria: Soil
2-Fluorophenol: 43 %	21-100%	25-121%
Phenol-d5: 37 %	10-94%	24-113%
2,4,6-Tribromophenol: 69 %	10-123%	19-122%

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9512201

Polychlorinated Biphenyls (PCBs) Blank
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/27/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene:	73.4%	34-104%

Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9512201

BLANK ANALYSIS

METALS

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.005	ND	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight