Analytical Services Corp.

ANALYTICAL REPORT

Client: OHM Remediation Services Corporation
Eastern Region (Trenton, NJ)

Attn: Tom O'Hara

Project: 16441E - Bayonne Barrel & Drum, Newark, NJ

Sample(s): 01.01 through 01.20

Sample Type(s): Solid and Organic

Analysis Performed: Organics

Date Sample Received: August 3, 1994

Date Order Received: August 3, 1994

Joblink(s): 616350

372183

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. Analytical Services Corporation assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

Reviewed and Approved by: *Thomas E. Gran, Ph.D., Vice President* *Date:* *August 9, 1994*

16406 U.S. Route 224 East ■ P.O. Box 1404 ■ Findlay, Ohio 45839-1404 ■ 419-423-3526

PROJECT NARRATIVE

The following items relate to the samples and analytical data contained in this report.

- All solid sample results are reported on a "dry weight" basis.
- J values reported for all samples as per client request. Reported results below stated detection limit should be viewed as semi-quantitative only.
- Note any and all comments at the bottom of the tables in Appendix B and/or Appendix C.
- **ASC** will retain samples for a maximum of thirty (30) days after completion of the analysis, samples will be held for a longer period of time, if appropriate arrangements are made in advance. A nominal disposal charge of $5.00/ sample will be imposed for unreturned samples.
- Due to time and capacity constraints, no matrix spike and matrix spike duplicate was prepared for ASC QA Batch #Q2P41066.
- The detection limits for these samples are higher than usual due to matrix interferences.

APPENDIX A

DATA SUMMARY REPORT

NOTE: The Tentatively Identified Volatile (GC/MS) Screen result(s), if applicable, is included in Appendix B.

DATA SUMMARY REPORT

DATE: 08/05/94

Company: OHM REMEDIATION SERVICES CORPORATION

	Sample Point ID:	01.01	01.02	01.03	01.04	01.05	01.06	01.07	01.08
	ASC Sample Number:	JN0882	JN0883	JN0886	JN0887	JN0888	JN0889	JN0884	JN0885
	Sample Date:	940802	940802	940802	940802	940802	940802	940802	940802
	Facility Code:	016441E	016441E	016441E	016441E	016441E	016441E	016441E	016441E
Parameters	Units								
Total PCB Analysis, GC, (GS03)									
Aroclor 1016	mg/kg	<57.2	<5.68	<96.6	<19.3	<198	<191	<3.53	<6.11
Aroclor 1221	mg/kg	<57.2	<5.68	<96.6	<19.3	<198	<191	<3.53	<6.11
Aroclor 1232	mg/kg	<57.2	<5.68	<96.6	<19.3	<198	<191	<3.53	<6.11
Aroclor 1242	mg/kg	<57.2	<5.68	<96.6	<19.3	<198	<191	<3.53	<6.11
Aroclor 1248	mg/kg	<57.2	<5.68	<96.6	<19.3	99.0 J	<191	<3.53	<6.11
Aroclor 1254	mg/kg	<57.2	<5.68	<96.6	<19.3	<198	<191	<3.53	1.52 J
Aroclor 1260	mg/kg	<57.2	<5.68	<96.6	<19.3	<198	<191	9.24	<6.11

	Sample Point ID:	01.09	01.10	01.11	01.12	01.13	01.14	01.15	01.16
	ASC Sample Number:	JN0890	JN0891	JN0892	JN0893	JN0896	JN0897	JN0898	JN0899
	Sample Date:	940802	940802	940802	940802	940802	940802	940802	940802
	Facility Code:	016441E	016441E	016441E	016441E	016441E	016441E	016441E	016441E
Parameters	Units								
Total PCB Analysis, GC, (GS03)									
Aroclor 1016	mg/kg	<1.80	<38.5	<58.5	<147	<19.9	<18.5	<9.95	<379
Aroclor 1221	mg/kg	<1.80	<38.5	<58.5	<147	<19.9	<18.5	<9.95	<379
Aroclor 1232	mg/kg	<1.80	<38.5	<58.5	<147	<19.9	<18.5	<9.95	<379
Aroclor 1242	mg/kg	<1.80	<38.5	<58.5	<147	<19.9	<18.5	<9.95	<379
Aroclor 1248	mg/kg	6.02	<38.5	<58.5	<147	<19.9	<18.5	<9.95	<379
Aroclor 1254	mg/kg	<1.80	<38.5	<58.5	<147	3.82 J	<18.5	<9.95	<379
Aroclor 1260	mg/kg	<1.80	<38.5	<58.5	<147	<19.9	<18.5	<9.95	<379

DATA SUMMARY REPORT

DATE: 08/05/94

Company: OHM REMEDIATION SERVICES CORPORATION

	Sample Point ID:	01.17	01.18	01.19	01.20
	ASC Sample Number:	JN0900	JN0894	JN0895	JN0901
	Sample Date:	940802	940802	940802	940802
	Facility Code:	016441E	016441E	016441E	016441E
Parameters	Units				
Total PCB Analysis, GC, (GS03)					
Aroclor 1016	mg/kg	<9.30	<15.2	<11.1	<19.3
Aroclor 1221	mg/kg	<9.30	<15.2	<11.1	<19.3
Aroclor 1232	mg/kg	<9.30	<15.2	<11.1	<19.3
Aroclor 1242	mg/kg	<9.30	<15.2	<11.1	<19.3
Aroclor 1248	mg/kg	<9.30	<15.2	<11.1	8.29 J
Aroclor 1254	mg/kg	<9.30	<15.2	8.36 J	<19.3
Aroclor 1260	mg/kg	<9.30	<15.2	<11.1	<19.3

APPENDIX B

QUANTITATIVE RESULTS

TOTAL PCB ANALYSIS, GC, (GS03)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016441E	01.01	JN0882

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aroclor 1016	ND	57.2	ND	Q2P41066
Aroclor 1221	ND	57.2	ND	Q2P41066
Aroclor 1232	ND	57.2	ND	Q2P41066
Aroclor 1242	ND	57.2	ND	Q2P41066
Aroclor 1248	ND	57.2	ND	Q2P41066
Aroclor 1254	ND	57.2	ND	Q2P41066
Aroclor 1260	ND	57.2	ND	Q2P41066

TOTAL PCB ANALYSIS, GC, (GS03)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016441E	01.02	JN0883

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aroclor 1016	ND	5.68	ND	Q2P41066
Aroclor 1221	ND	5.68	ND	Q2P41066
Aroclor 1232	ND	5.68	ND	Q2P41066
Aroclor 1242	ND	5.68	ND	Q2P41066
Aroclor 1248	ND	5.68	ND	Q2P41066
Aroclor 1254	ND	5.68	ND	Q2P41066
Aroclor 1260	ND	5.68	ND	Q2P41066

TOTAL PCB ANALYSIS, GC, (GS03)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016441E	01.03	JN0886

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aroclor 1016	ND	96.6	ND	Q4P41065
Aroclor 1221	ND	96.6	ND	Q4P41065
Aroclor 1232	ND	96.6	ND	Q4P41065
Aroclor 1242	ND	96.6	ND	Q4P41065
Aroclor 1248	ND	96.6	ND	Q4P41065
Aroclor 1254	ND	96.6	ND	Q4P41065
Aroclor 1260	ND	96.6	ND	Q4P41065

TOTAL PCB ANALYSIS, GC, (GS03)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016441E	01.04	JN0887

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aroclor 1016	ND	19.3	ND	Q4P41065
Aroclor 1221	ND	19.3	ND	Q4P41065
Aroclor 1232	ND	19.3	ND	Q4P41065
Aroclor 1242	ND	19.3	ND	Q4P41065
Aroclor 1248	ND	19.3	ND	Q4P41065
Aroclor 1254	ND	19.3	ND	Q4P41065
Aroclor 1260	ND	19.3	ND	Q4P41065

TOTAL PCB ANALYSIS, GC, (GS03)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016441E	01.05	JN0888

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aroclor 1016	ND	198	ND	Q4P41065
Aroclor 1221	ND	198	ND	Q4P41065
Aroclor 1232	ND	198	ND	Q4P41065
Aroclor 1242	ND	198	ND	Q4P41065
Aroclor 1248	99.0	198	ND	Q4P41065
Aroclor 1254	ND	198	ND	Q4P41065
Aroclor 1260	ND	198	ND	Q4P41065

TOTAL PCB ANALYSIS, GC, (GS03)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016441E	01.06	JN0889

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aroclor 1016	ND	191	ND	Q4P41065
Aroclor 1221	ND	191	ND	Q4P41065
Aroclor 1232	ND	191	ND	Q4P41065
Aroclor 1242	ND	191	ND	Q4P41065
Aroclor 1248	ND	191	ND	Q4P41065
Aroclor 1254	ND	191	ND	Q4P41065
Aroclor 1260	ND	191	ND	Q4P41065

TOTAL PCB ANALYSIS, GC, (GS03)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016441E	01.07	JN0884

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aroclor 1016	ND	3.53	ND	Q2P41066
Aroclor 1221	ND	3.53	ND	Q2P41066
Aroclor 1232	ND	3.53	ND	Q2P41066
Aroclor 1242	ND	3.53	ND	Q2P41066
Aroclor 1248	ND	3.53	ND	Q2P41066
Aroclor 1254	ND	3.53	ND	Q2P41066
Aroclor 1260	9.24	3.53	ND	Q2P41066

TOTAL PCB ANALYSIS, GC, (GS03)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016441E	01.08	JN0885

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aroclor 1016	ND	6.11	ND	Q2P41066
Aroclor 1221	ND	6.11	ND	Q2P41066
Aroclor 1232	ND	6.11	ND	Q2P41066
Aroclor 1242	ND	6.11	ND	Q2P41066
Aroclor 1248	ND	6.11	ND	Q2P41066
Aroclor 1254	ND	6.11	ND	Q2P41066
Aroclor 1260	ND	6.11	ND	Q2P41066

TOTAL PCB ANALYSIS, GC, (GS03)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016441E	01.09	JN0890

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aroclor 1016	ND	1.80	ND	Q4P41065
Aroclor 1221	ND	1.80	ND	Q4P41065
Aroclor 1232	ND	1.80	ND	Q4P41065
Aroclor 1242	ND	1.80	ND	Q4P41065
Aroclor 1248	6.02	1.80	ND	Q4P41065
Aroclor 1254	ND	1.80	ND	Q4P41065
Aroclor 1260	ND	1.80	ND	Q4P41065

- Surrogate recoveries which are outside of control limits were attributed to the sample matrix, this was confirmed by replicate analysis.

TOTAL PCB ANALYSIS, GC, (GS03)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016441E	01.10	JN0891

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aroclor 1016	ND	38.5	ND	Q4P41065
Aroclor 1221	ND	38.5	ND	Q4P41065
Aroclor 1232	ND	38.5	ND	Q4P41065
Aroclor 1242	ND	38.5	ND	Q4P41065
Aroclor 1248	ND	38.5	ND	Q4P41065
Aroclor 1254	ND	38.5	ND	Q4P41065
Aroclor 1260	ND	38.5	ND	Q4P41065

TOTAL PCB ANALYSIS, GC, (GS03)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016441E	01.11	JN0892

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aroclor 1016	ND	58.5	ND	Q2P41066
Aroclor 1221	ND	58.5	ND	Q2P41066
Aroclor 1232	ND	58.5	ND	Q2P41066
Aroclor 1242	ND	58.5	ND	Q2P41066
Aroclor 1248	ND	58.5	ND	Q2P41066
Aroclor 1254	ND	58.5	ND	Q2P41066
Aroclor 1260	ND	58.5	ND	Q2P41066

TOTAL PCB ANALYSIS, GC, (GS03)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016441E	01.12	JN0893

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aroclor 1016	ND	147	ND	Q2P41066
Aroclor 1221	ND	147	ND	Q2P41066
Aroclor 1232	ND	147	ND	Q2P41066
Aroclor 1242	ND	147	ND	Q2P41066
Aroclor 1248	ND	147	ND	Q2P41066
Aroclor 1254	ND	147	ND	Q2P41066
Aroclor 1260	ND	147	ND	Q2P41066

TOTAL PCB ANALYSIS, GC, (GS03)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016441E	01.13	JN0896

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aroclor 1016	ND	19.9	ND	Q4P41065
Aroclor 1221	ND	19.9	ND	Q4P41065
Aroclor 1232	ND	19.9	ND	Q4P41065
Aroclor 1242	ND	19.9	ND	Q4P41065
Aroclor 1248	ND	19.9	ND	Q4P41065
Aroclor 1254	3.82	19.9	ND	Q4P41065
Aroclor 1260	ND	19.9	ND	Q4P41065

TOTAL PCB ANALYSIS, GC, (GS03)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016441E	01.14	JN0897

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aroclor 1016	ND	18.5	ND	Q4P41065
Aroclor 1221	ND	18.5	ND	Q4P41065
Aroclor 1232	ND	18.5	ND	Q4P41065
Aroclor 1242	ND	18.5	ND	Q4P41065
Aroclor 1248	ND	18.5	ND	Q4P41065
Aroclor 1254	ND	18.5	ND	Q4P41065
Aroclor 1260	ND	18.5	ND	Q4P41065

TOTAL PCB ANALYSIS, GC, (GS03)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016441E	01.15	JN0898

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aroclor 1016	ND	9.95	ND	Q4P41065
Aroclor 1221	ND	9.95	ND	Q4P41065
Aroclor 1232	ND	9.95	ND	Q4P41065
Aroclor 1242	ND	9.95	ND	Q4P41065
Aroclor 1248	ND	9.95	ND	Q4P41065
Aroclor 1254	ND	9.95	ND	Q4P41065
Aroclor 1260	ND	9.95	ND	Q4P41065

TOTAL PCB ANALYSIS, GC, (GS03)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016441E	01.16	JN0899

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aroclor 1016	ND	379	ND	Q4P41065
Aroclor 1221	ND	379	ND	Q4P41065
Aroclor 1232	ND	379	ND	Q4P41065
Aroclor 1242	ND	379	ND	Q4P41065
Aroclor 1248	ND	379	ND	Q4P41065
Aroclor 1254	ND	379	ND	Q4P41065
Aroclor 1260	ND	379	ND	Q4P41065

TOTAL PCB ANALYSIS, GC, (GS03)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016441E	01.17	JN0900

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aroclor 1016	ND	9.30	ND	Q4P41065
Aroclor 1221	ND	9.30	ND	Q4P41065
Aroclor 1232	ND	9.30	ND	Q4P41065
Aroclor 1242	ND	9.30	ND	Q4P41065
Aroclor 1248	ND	9.30	ND	Q4P41065
Aroclor 1254	ND	9.30	ND	Q4P41065
Aroclor 1260	ND	9.30	ND	Q4P41065

TOTAL PCB ANALYSIS, GC, (GS03)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016441E	01.18	JN0894

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aroclor 1016	ND	15.2	ND	Q2P41066
Aroclor 1221	ND	15.2	ND	Q2P41066
Aroclor 1232	ND	15.2	ND	Q2P41066
Aroclor 1242	ND	15.2	ND	Q2P41066
Aroclor 1248	ND	15.2	ND	Q2P41066
Aroclor 1254	ND	15.2	ND	Q2P41066
Aroclor 1260	ND	15.2	ND	Q2P41066

TOTAL PCB ANALYSIS, GC, (GS03)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016441E	01.19	JN0895

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aroclor 1016	ND	11.1	ND	Q2P41066
Aroclor 1221	ND	11.1	ND	Q2P41066
Aroclor 1232	ND	11.1	ND	Q2P41066
Aroclor 1242	ND	11.1	ND	Q2P41066
Aroclor 1248	ND	11.1	ND	Q2P41066
Aroclor 1254	8.36	11.1	ND	Q2P41066
Aroclor 1260	ND	11.1	ND	Q2P41066

TOTAL PCB ANALYSIS, GC, (GS03)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016441E	01.20	JN0901

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aroclor 1016	ND	19.3	ND	Q4P41065
Aroclor 1221	ND	19.3	ND	Q4P41065
Aroclor 1232	ND	19.3	ND	Q4P41065
Aroclor 1242	ND	19.3	ND	Q4P41065
Aroclor 1248	8.29	19.3	ND	Q4P41065
Aroclor 1254	ND	19.3	ND	Q4P41065
Aroclor 1260	ND	19.3	ND	Q4P41065

APPENDIX C

QUALITY ASSURANCE DATA

SUMMARY OF ANALYTICAL METHODOLOGY

ASC Joblink # 616350

REFERENCE		TITLE
8080	SW-846	Organochlorine Pesticides and/or PCBs

METHODOLOGY REFERENCES

ASTM	*American Society for Testing and Materials*, 1985 edition.
CAWW	*Methods for Chemical Analysis of Water and Wastes*, April 1979 and Updated #1 March 1983.
CLP	*USEPA Contract Laboratory Program*, Document #OLMO1.0, updates December 1990 #OLMO1.1 and February 1991 #OLMO1.1.1.
EPA-500	*USEPA Methods for the Determination of Organic Compounds in Drinking Water,* EPA-600/4-88/039 December 1988.
EPA-600	*USEPA Test Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater*, EPA-600/4-82-057 July 1982.
NIOSH	*National Institute for Occupational Safety and Health*, 3rd edition, 1984.
SMEWW	*Standard Methods for the Examination of Water and Wastewater*, 17th edition, 1989.
STOA	*Spot Tests In Organic Analysis*, 7th edition, 1966.
SW-846	*Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*, 3rd edition, September 1986 and Update #1 July 1992.
(1)	This method was modified to incorporate the use of Boron Trifluoride (BF3) as the derivatizing reagent according to Method 6640 in *SMEWW*, 17th edition, 1989.
Title 22	*Waste Extraction Test*, Title 22, Section 66261.126 Appendix 2 of the California Administrative Code, May 1991.

ASC Certifications

State	Agency	Certification #
Alabama	ADEM	40830
California	CADOH	1178
Colorado	CODOH	OH113
Delaware	DEHSS	OH113
Kansas	KSDHE	E-202 & E-1173
Louisiana	LADOHH	92-10
Maryland	MDDHMH	210
Massachusetts	MADEP	M-OH113
New Jersey	NJDEPE	74603
New York	NYDOH	10712
North Carolina	NCDEM	392
Ohio	OHEPA	OH113
Oklahoma	OKDEQ	9216
Pennsylvania	PADER	68-450
South Carolina	SCDEHNR	92002
Tennessee	TNDOH/TNDEC	2978
Virginia	VADGS	00011
Washington	WADOE	C154
Wisconsin	WIDNR	999037160

Validated by:

- US Army Corps of Engineers ..... Chemical Analysis in Various Matrices

Approvals:

- Chemical Waste Management ..... Waste Characterization Analysis
- Envirosafe ..... Waste Characterization Analysis
- USDA ..... Permit for Importing Soils
- Florida DEP ..... Quality Assurance Plan #930034G
- Naval Facilities Engineering Service Center ..... Chemical Analysis in Various Matrices

REPORT KEY

mg/kg	=	milligram per kilogram (ppm)
Mg/m^3	=	milligram per cubic meter
ug/kg	=	microgram per kilogram (ppb)
mg/L	=	milligram per liter (ppm)
ug/L	=	microgram per liter (ppb)
mg/W	=	milligram per wipe
ug/W	=	microgram per wipe
mg/SMP	=	milligram per sample
ug/SMP	=	microgram per sample
um/cm	=	microMho per centimeter
pCi/l	=	picocurie per liter
gm/cc	=	grams per cubic centimeter
ppm	=	parts per million
ppb	=	parts per billion
ND	=	Not detected at or above stated detection limit
<	=	less than
>	=	greater than
%	=	percent
BTU/lb	=	British Thermal Units per pound
Deg. C	=	Degrees Celsius
n/a	=	not applicable
Unk	=	unknown
std	=	result is relative to standard pH units
CV	=	Conventionals
IR	=	Infrared Spectrophotometric
GC	=	Gas Chromatograph Instrument
GC/MS	=	Gas Chromatography/Mass Spectrometer Instrument
GRO	=	Gasoline Range Organics
DRO	=	Diesel Range Organics
PCB	=	Polychlorinated Biphenyls (PCBs)
EP TOX	=	Extraction Procedure Toxicity
TCLP	=	Toxicity Characteristic Leaching Procedure
RCRA	=	Resource Conservation and Recovery Act

QUALITY ASSURANCE DATA

TOTAL PCB ANALYSIS, GC, (GS03)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Aroclor 1248	ND	104	ND	-	-	Q4P41065

- Matrix spike recoveries are not available due to the dilution of the QC matrix spike sample extracts during analysis.

QUALITY ASSURANCE DATA

TOTAL PCB ANALYSIS, GC, (GS03)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Aroclor 1248	ND	79	-	-	-	Q2P41066

QUALITY ASSURANCE DATA
SURROGATE SUMMARY REPORT

SURROGATE ID	F048	F096	# OUT
QC BATCH: Q2P41066 Solid (Pesticide compounds by GC)			
SAMPLE ID			
01.01	0 D	0 D	0
01.02	0 D	0 D	0
01.07	39	117	0
01.08	0 D	0 D	0
01.11	0 D	0 D	0
01.12	0 D	0 D	0
01.18	0 D	0 D	0
01.19	0 D	0 D	0
BLANK	101	86	0
BLANK SPIKE	114	95	0
QC LIMITS	(30-130)	(30-130)	

SURROGATE ID	F048	F096	# OUT
QC BATCH: Q4P41065 Organic Liquid (Pesticide compounds by GC)			
SAMPLE ID			
01.03	0 D	0 D	0
01.03 MD	0 D	0 D	0
01.03 MS	0 D	0 D	0
01.04	0 D	0 D	0
01.05	0 D	0 D	0
01.06	0 D	0 D	0
01.09	219 *	200 *	2
01.10	0 D	0 D	0
01.13	0 D	0 D	0
01.14	0 D	0 D	0
01.15	90	57	0
01.16	0 D	0 D	0
01.17	62	61	0
01.20	0 D	0 D	0
BLANK	99	86	0
BLANK SPIKE	108	91	0
QC LIMITS	(30-130)	(30-130)	

SURROGATE ID

F048 = Decachlorobiphenyl (PCB)
F096 = 2,4,5,6-TCMX (PCB)

* Values outside of method quality control limits
D Sample was diluted, however, some surrogates may be reported if results were observed.

It is ASC's laboratory policy to allow one surrogate per sample fraction (acid, base-neutral or pesticide) to exceed the stated QC limits. This policy is based upon the USEPA SOW for the Contract Laboratory Program (CLP).

APPENDIX D

CHAIN-OF-CUSTODY RECORD(S)

LAB COPY

OHM Corporation

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 08/89

136462

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: Bayonne Barrel & Drum
PROJECT LOCATION: Newark, NJ
PROJ. NO.: 16441
PROJECT CONTACT: Ken Klinger
PROJECT TELEPHONE NO.: 201-491-5380
CLIENT'S REPRESENTATIVE: Joe Consentino
PROJECT MANAGER/SUPERVISOR: OHARA / Gomez

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	PCB Screen Method 8080								REMARKS
1	01.01	8/2		X		10 Drum Composite	1-VIAL	X								24 TAT 2ppm DL
2	01.02	8/2		X		10 Drum Composite	1-VIAL	X								24 TAT 2ppm DL
3	01.03	8/2		X		10 Drum Composite	1-VIAL	X								24 TAT 2ppm DL
4	01.04	8/2		X		10 Drum Composite	1-VIAL	X								24 TAT 2ppm DL
5	01.05	8/2		X		10 Drum Composite	1-VIAL	X								24 TAT 2ppm DL
6	01.06	8/2		X		10 Drum Composite	1-VIAL	X								24 TAT 2ppm DL
7	01.07	8/2		X		10 Drum Composite	1-VIAL	X								24 TAT 2ppm DL
8	01.08	8/2		X		10 Drum Composite	1-VIAL	X								24 TAT 2ppm DL
9	01.09	8/2		X		10 Drum Composite	1-VIAL	X								24 TAT 2ppm DL
10	01.10	8/2		X		10 Drum Composite	1-VIAL	X								24 TAT 2ppm DL

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-10	Ken Klinger	FED EX	8/2	
2	1-10	FED EX 1532895184	Anita Jensen	8-3-94	0947
3					
4					

REMARKS - MIX SAMPLES WELL - UNMARKED Field Spikes ARE on the Bottom.
- 2ppm DL IS A must otherwise DATA IS worthless.
- FAX DATA to 201-491-9470 ASAP

SAMPLER'S SIGNATURE: Ken Klinger

LAB COPY

OHM Corporation

CHAIN-OF-CUSTODY RECORD

Form 10019
Field Technical Services
Rev 08/89

136463

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: Bayonne Barrel + Drum
PROJECT LOCATION: Newark, NJ
PROJ. NO.: 16441
PROJECT CONTACT: Ken Klinger
PROJECT TELEPHONE NO.: 201-491-5380
CLIENT'S REPRESENTATIVE:
PROJECT MANAGER/SUPERVISOR:

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): PCB Screen method 8080

HOLD (*)

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	PCB Screen method 8080	REMARKS
1	01.11	8/2		X		10 Drum Composite	1-VIAL	X	24 TAT 2ppm DL
2	01.12	8/2		X		10 Drum Composite	1-VIAL	X	24 TAT 2ppm DL
3	01.13	8/2		X		10 Drum Composite	1-VIAL	X	24 TAT 2ppm DL
4	01.14	8/2		X		10 Drum Composite	1-VIAL	X	24 TAT 2ppm DL
5	01.15	8/2		X		10 Drum Composite	1-VIAL	X	24 TAT 2ppm DL
6	01.16	8/2		X		10 Drum Composite	1-VIAL	X	24 TAT 2ppm DL
7	01.17	8/2		X		10 Drum Composite	1-VIAL	X	24 TAT 2ppm DL
8	01.18	8/2		X		10 Drum Composite	1-VIAL	X	24 TAT 2ppm DL
9	01.19	8/2		X		10 Drum Composite	1-VIAL	X	24 TAT 2ppm DL
10	01.20	8/2		X		10 Drum Composite	1-VIAL	X	24 TAT 2ppm DL

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-10	[signature]	FED EX	8/2	
2	1-10	Fedex 1532895184	[signature]	8-3-94	0944
3					
4					

REMARKS – Mix Samples well – unmarked Field spikes are on the bottom.
(*) Hold Samples. If any samples 01.01 through 01.10 contain PCB then analyze these 10 Samples

SAMPLER'S SIGNATURE: [signature]