DEPARTMENT OF THE NAVY
ATLANTIC DIVISON
NAVAL FACILITIES ENGINEERING COMMAND
1510 GILBERT ST
NORFOLK, VA 23511-2699

TELEPHONE NO:
(757) 322-4815

IN REPLY REFER TO:
5090
1823:CTP:cag
05 MAY 1997

U.S. Environmental Protection Agency
Region II
Attn: Ms. Nicoletta DiForte, Chief
Caribbean Section, RCRA Programs Branch
290 Broadway, 22nd Floor
New York, New York 10007-1866

Re: SWMU Number 45, Interim Corrective Measures (Draft) Final Closeout Report for Cooling Water Tunnels and Underground Storage Tanks at Building 38 (Former Power Plant) U.S. Naval Station, Roosevelt Roads RCRA/HSWA Permit Number PR2170027203

Dear Ms. DiForte:

This letter is in response to your correspondence dated March 31, 1997, addressed to Commander S. J. Pena, CEC, U.S. Navy Public Works Officer, U.S. Naval Station Roosevelt Roads, Puerto Rico. The subject letter was in regard to the draft version of the Interim Corrective Measures (ICM) Final Close-Out Report for SWMU Number 45, submitted by OHM Remediation Services Corporation on behalf of the Department of the Navy.

Based upon on USEPA's comments, the Navy recognizes that the (draft) ICM Report contained a number of errors and omissions which caused a certain degree of ambiguities in the Navy's attempt to substantiate whether or not appropriate representative sampling methods and waste characterization efforts were employed during the handling and disposal of waste. The Navy also realizes that a number of EPA's comments were precipitated by the language used in the (draft) report in regard to describing the physical state of the material handled in the inlet and outlet tunnels during the various phases of the ICM performance. The significance of such language relates to the corresponding analytical method selection and management of the wastes. Therefore, the Navy would like to take this opportunity to respond to EPA's comments before revising and submitting a final version of the ICM Final Close-Out Report. The Navy's response to these comments are summarized below.

Re: SWMU Number 45, Interim Corrective Measures (Draft) Final Closeout Report for Cooling Water Tunnels and Underground Storage Tanks at Building 38 (Former Power Plant) U.S. Naval Station, Roosevelt Roads RCRA/HSWA Permit Number PR2170027203

Please do not hesitate to call me at (757) 322-4815 or Ms. Madeline Rivera at (787) 865-4429, if you have any questions or desire to discuss any of the points presented above in greater detail.

Sincerely,

C. T. PENNY
Navy Technical Representative
Installation Restoration Section(South)
Environmental Programs Branch
Environmental Division
By direction of the Commander

Enclosures

Copy to:
NSRR (Ms. Madeline Rivera)
[redacted]
OHM Remediation Serivices (Mr. Gary Shirley)
PR DEQ (Mr. Torres)

RESPONSE TO EPA COMMENT NUMBER 1

a. "Honda Bay" will be revised to read "Puerca Bay".

b. Please refer to paragraph 1.b of Section 2.8, page 2-14, in the RCRA Facility Investigation Work Plans, Naval Station Roosevelt Roads, Puerto Rico, Addendum 2, Additional Investigations at Certain OU-1,6, and 7 SWMUs, dated February 28, 1997. All current information regarding the discovery of a petroleum based external contamination source entering the Intake cooling lines [tunnels] was provided in that report. That section also goes on to describe a detailed investigatory approach designed to characterize the nature and extent of the release. As it stands now, the Navy is waiting for EPA to comment on or accept the investigatory approach as presented.

RESPONSE TO EPA COMMENT NUMBER 2

a. The analysis was performed on a composite sample. Four grab samples were taken from four locations along the perimeter of the 50,000 gallon equalization pool and combined into one representative sample.

b. Since the material was an aqueous solution, the representative sampling methods employed above were in accordance with Appendix I of 40 CFR Part 261.

c. A number of the EPA's comments were precipitated by the language used in the (draft) report which described the physical state of the material handled in the inlet and outlet tunnels during the ICM performance. More specifically, the Navy's use of the term "sludge" was used inappropriately and caused concern to EPA as to whether or not the field sampling methods and characterization of wastes were adequate. Therefore, before the Navy can respond appropriately to EPA Comments Numbers 2 and 3, it is essential that the Navy clarify their intent with regard to classifying the actual physical state of the material with terms more representative of their physical states in the tunnels and after it went through the pre-treatment filter (Ref Figure 4.1).

In hindsight, the term "sludge" was used incorrectly. With the exception of the Free Product layer, the physical state of the material extracted from the tunnel was more representative of a "slurry", that is, a homgeneous aqueous solution of liquid and suspended solids. The state of the material underwent a subsequent phase change to a "Free

Liquid" as it passed through the Pre-Filter component of the Wastewater Treatment System. The basis of this correction is that the initial physical state of the material, as it was pumped from the intake and outlet tunnels, was not solid or semi-solid, but a pumpable homogeneous aqueous solution of liquid and suspended solids. Even though a Paint Filter Test was not actually performed on the material that went through the Pre-Filter, it is clear that this material would have failed a Paint Filter test (250 micron) since the material passed through a 50 micron filter prior to discharge to the equalization pools. A solid or semi-solid material would not have had the necessary fluid properties to pass through a 250 micron filter, let alone a 50 micron filter. Thus, the material that passed through the Pre-Filter system and into the equalization pools was considered to be more representative of a "Free Liquid".

d. The volume of intake tunnel slurry and free liquid generated/accumulated after August 23, 1996 was estimated at 920,000 gallons.

e. A PCB analysis was performed on the intake material prior to treatment. Method 8080 was performed and the analytical data indicated a concentration of 90 parts per billion (ppb). This data was inadvertently left out in the draft submission and will be incorporated in the revised submission. A copy of this analytical data is included as Attachment 1. In addition, all previous intake tunnel analytical data generated from earlier pre-design investigations, which were included in the revised final Basis of Design for ICM at SWMU Number 45, developed by Baker Environmental, dated December 11, 1995, indicated analytical results below TSCA limits.

RESPONSE TO EPA COMMENT NUMBER 3

a. The analysis was performed on a composite sample. Four grab samples were taken from four locations along the perimeter of the 50,000 gallon equalization pool and combined into one representative sample.

b. Since the material was of an aqueous solution, the representative sampling methods employed for the slurry and free liquids were in accordance with Appendix I of 40 CFR Part 261.

c. See Response in 2c.

d. A total volume of 160,000 gallons of slurry and free liquid were generated/accumulated from the outlet tunnel after October 23, 1996.

e. A PCB analysis was performed on the outlet material prior to treatment. Method 8080 was performed and indicated a concentration of 0.5 parts per billion (ppb). This data was inadvertently left out in the draft submission and will be incorporated in the revised submission. A copy of the analytical data is included as Attachment 2.

RESPONSE TO EPA COMMENT NUMBER 4

a. The analysis was performed on a composite sample. Four grab samples were taken from four locations along the perimeter of the 50,000 gallon equalization pool and combined into one representative sample.

b. Since the material was of an aqueous solution, the representative sampling methods employed above were in accordance with Appendix I of 40 CFR Part 261.

c. The TCLP method described in 40 CFR Part 261 Appendix II for metal parameters was not utilized. However, a Total Metals Method, as per EPA SW846, was utilized and the results indicated that the concentrations were below RCRA Limits.

d. A Total Metals Method was utilized because knowledge of the concentrations were known from pre-mobilization sampling efforts and the analytical result included in the revised final Basis of Design for ICM at SWMU Number 45, dated December 11, 1995, developed by Baker Environmental.

e. The sample analyzed for metals was collected 24 days prior to the analysis of other parameters because it was used as a Quality Control check to verify the metals reduction treatment system.

f. Additional material was generated from both the intake and outlet tunnels between September 22, 1996 and November 13, 1996.

RESPONSE TO EPA COMMENT NUMBER 5.

a. Method 8080 for PCBs was not utilized for the Free Product in Tanker Number 1, (Tanker Number 1 included intake free product and water, as well as UST free product and water). However, a representative composite sample of the material in the intake tunnel was taken and analyzed by Method 8080 (Refer to Attachment Number 1). The rationale for not strictly adhering to Method 8080 for PCB detection in the free product layer was that previous analytical data taken during the pre-design phase by Baker Environmental indicated that the free product and aqueous layer materials were less than TSCA limits. The pre-existing generator knowledge and the composite sample taken by OHM (refer to Attachment Number 1) from the intake tunnel indicated that both the free product and aqueous solution was below TSCA limits. This information was used as the basis for disposal, via fuels reclamation, of the free product mixture in Tanker Number 1.

RESPONSE TO EPA COMMENT NUMBER 6

a. A copy of all analytical results for all pre-mobilization sampling efforts will be incorporated in the revised submission. Attachment Number 3 includes all of the analytical results for all Pre-mobilization sampling, except for the PCB analytical results. Unfortunately, three glass containers of sample contents were broken during transport to the laboratory. Because previous generators knowledge eliminated PCBs as a chemical of concern (below TSCA limits) from the intake tunnels, USTs, and at the two accessible outlet tunnel sampling access areas (manways) established during the pre-design investigation phase, a field decision was made to eliminate the PCB analytical in order to facilitate the analysis of the remaining parameters. In addition, the field decision was also influenced by the fact that there was no physical evidence of free product during the sampling efforts of the two accessible outlet manways, as confirmed in Baker's Revised Final Basis of Design report.

RESPONSE TO EPA COMMENT NUMBER 7

a. The Scope of Work and the Approved Work Plan prepared by OHM Remediation Services did not require validation reports on analytical data. All available raw data, including raw strip charts and lab books, etc, will be provided if needed.

ATTACHMENT No. 1

Intake tunnel PCB data

SOLUTIONS LABORATORIES, INC.
4855 BROOKSIDE CT, SUITE H
NORFOLK, VA 23502

REPORT OF ANALYSIS

DATE: JUNE 19, 1996

OHM REMEDIATION SERVICES CORP.
ATTN: GARY SHIRLEY
1508 FAUVER ROAD
GLEN ALLEN, VA 23060
(800) 426-0127

PROJECT NAME: SWMU #45 TANK CLOSURE
PROJECT NUMBER: 17780
LOCATION: ROOSEVELT ROADS, PUERTO RICO

SOLUTIONS LOG: 061796-001-01>02
MATRIX: WATER
DATE/TIME SAMPLED: 06/14/96
P.O.#: 1024560

METHOD 8080-PCB

CLIENT NO:	E 6/14/96 A	I 6/14/96 A	MDL*
LAB NO:	01A4	02A4	N/A
SAMPLE DATE:	06/14/96	06/14/96	N/A
RECEIVED DATE:	06/17/96	06/17/96	N/A
EXTRACTION DATE:	06/18/96	06/18/96	N/A
ANALYSIS DATE:	06/18/96	06/19/96	N/A
INSTRUMENT ID:	HP ECD	HP ECD	HP ECD
DILUTION FACTOR:	0.01	2.0	1
UNITS:	mg/L	mg/L	mg/L
COMPOUNDS			
ALL AROCLORS	< 0.0005		0.010
AROCLOR 1260		0.090	
ALL OTHER AROCLORS		< 0.0005	

*MDL IS THE METHOD DETECTION LIMIT. THE MDL IS USED TO DETERMINE THE PRACTICAL QUANTITATIVE LIMIT FOR EACH MATRIX TYPE. THE MATRIX FACTOR IS TABLED ON PAGE 8080-3 OF SW-846.

Services Corp.

CHAIN-OF-CUSTODY RECORD

Field Technical Services
Rev. 08/89

176433

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

OJECT NAME: TWMU-45 TANK Closure	PROJECT LOCATION: Roosevelt Rds, Puerto Rico
OJ. NO.: 7780	PROJECT CONTACT: STAN GAOle
PROJECT TELEPHONE NO.: 809 889 5154	
IENT'S REPRESENTATIVE: IVAN ROSADO	PROJECT MANAGER/SUPERVISOR: GARY Shirley 262 804 0079

SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	VOA (8240)	PCB (8080)	RCRA Metals (14)	COD (410)	Oil + Grease (413)	TPH (418.1)	TSS (160.2)	Semi-Vol (8270)	REMARKS
E 6/14/96 A	6/14 96	1030		X	EFFluent From ~~UST's~~ WWT Plant (UST)	8	X	X	X	X	X	X	X	X	(1) Pb/Ag/Hg/Vd/Ba
I 6/14/96 A	6/14 96	1045		X	Influent ~~From UST's~~ to WWT plant (UST)	5	X	X	X			X			(1) Pb/As/Hg/Vd/Ba

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	E+I 6/14/96-A	[signature]		6/14 96	
2					
3					

REMARKS
(1) 96 Hr TAT / Fax results to 809-889-5154

SAMPLER'S SIGNATURE: [signature]

ATTACHMENT No. 2

Outlet tunnel PCB data

SOLUTIONS LABORATORIES, INC.
4855 BROOKSIDE CT, SUITE H
NORFOLK, VA 23502

REPORT OF ANALYSIS

DATE: NOVEMBER 5, 1996

OHM REMEDIATION SERVICES CORP.
ATTN: GARY SHIRLEY
1508 FAUVER ROAD
GLEN ALLEN, VA 23060
(800) 426-0127

PROJECT NAME: SWMU #45 TANK CLOSURE
PROJECT NUMBER: 17780
LOCATION: ROOSEVELT ROADS, PUERTO RICO

SOLUTIONS LOG: 110296-001-01
MATRIX: WATER
DATE/TIME SAMPLED: 11/01/96; 1300
P.O.#: 1029587
COC #: 125421

METHOD 8080 PCB

CLIENT NO:	OT-SL-01	MDL*
LAB NO:	01A6	N/A
SAMPLE DATE:	11/01/96	N/A
RECEIVED DATE:	11/02/96	N/A
EXTRACTION DATE:	11/04/96	N/A
ANALYSIS DATE:	11/04/96	N/A
INSTRUMENT ID:	HP ECD	HP ECD
DILUTION FACTOR:	0.01	1
UNITS:	mg/L	mg/L
COMPOUNDS		
ALL AROCLORS	< 0.0005	0.05

*MDL IS THE METHOD DETECTION LIMIT. THE MDL IS USED TO DETERMINE THE PRACTICAL QUANTITATIVE LIMIT FOR EACH MATRIX TYPE. THE MATRIX FACTOR IS TABLED ON PAGE 8080-3 OF SW-846.

REVIEWED AND APPROVED BY:

DOROTHY S. SMALL, CHEMIST
SOLUTIONS LABORATORIES, INC.

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. 1001 and 33 U.S.C. 1319.(Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

NAME _____
(PRINT)
NAME _____
(SIGNATURE)
TITLE _____

DATE _____

ATTACHMENT No.3

Pre-Mobilization Sampling

PRE-MODE SAMPLING

OHM Remediation Services Corp.

CHAIN-OF-CUSTODY RECORD

page 1 of 2

Form 0019
Field Technical Services
Rev. 08/89

166135

L. LOG# D51196-001

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

CT NAME: NMU #45 TANK CLOSURE	PROJECT LOCATION: ROOSEVELT ROADS, P.R.
IO.: 780	PROJECT CONTACT: GARY SHIRLEY
	PROJECT TELEPHONE NO.: (800) 426-0127
'S REPRESENTATIVE: IAN ROSADO	PROJECT MANAGER/SUPERVISOR: GARY SHIRLEY / STAN GABLE

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)

SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	FULL TCLP	PCB's	RCRA CHARACTERISTICS	TPH 418.1	TOX	BTU	TSS, ALKALINITY, SALINITY	IRON, MANGANESE	COD, TOC, Hardness	REMARKS
ENW-001	5/8/96		X		NORTH INFLUENT TUNNEL WATER 14 PT. COMPOSITE	8x1L 1x500ml 2x40ml	X	X	X	X	X		X	X	X	
ENS-001	5/8/96		X		NORTH INFLUENT TUNNEL SLUDGE 14 PT. COMPOSITE	2x1L	X	X	X	X	X	X				
ESW-001	5/8/96		X		SOUTH INFLUENT TUNNEL WATER 13 PT. COMPOSITE	8x1L 1x500ml 2x40ml	X	X	X	X	X		X	X	X	
ESS-001	5/8/96		X		SOUTH INFLUENT TUNNEL SLUDGE 13 PT. COMPOSITE	1x1L	X	X	X	X	X	X				
EW-001	5/9/96		X		EFFLUENT TUNNEL WATER 2 PT COMPOSITE	8x1L 1x500ml 2x40ml	X	X	X	X	X		X	X	X	
ES-001	5/9/96		X		EFFLUENT TUNNEL SLUDGE 2 PT COMPOSITE	2x1L	X	X	X	X	X	X				
NTW-001	5/9/96		X		NORTH TANK WATER 2 PT COMPOSITE	8x1L 1x500ml 2x40ml	X	X	X	X	X		X	X	X	
NTS-001	5/9/96		X		NORTH TANK SLUDGE 2 PT COMPOSITE	1x1L ~~2x1L~~	X	X	X	X	X	X				
STW-001	5/9/96		X		SOUTH TANK WATER 2 PT COMPOSITE	8x1L 1x500ml 2x40ml	X	X	X	X	X		X	X	X	
STS-001	5/9/96		X		SOUTH TANK SLUDGE 2 PT COMPOSITE	~~3x1L~~ 1x1L ~~2x1L~~	X	X	X	X	X	X				

NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	PAUL CAVANAUGH	FED EX AIRBILL # 400-6007-3160	5/10/96		
2		Federal Express		5/10/96		
3		[illegible]		5/11/96	1110	SAMPLER'S SIGNATURE: Paul Cavanaugh
4						

OHM Remediation Services Corp.

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 08/89

page 2 of 2

I66137

OL LOG# 051196-001

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

ECT NAME	WMU # 45 TANK CLOSURE
PROJECT LOCATION	ROOSEVELT ROADS, P.R.
I. NO.	7780
PROJECT CONTACT	GARY SHIRLEY
PROJECT TELEPHONE NO.	(800) 426-0127
NT'S REPRESENTATIVE	
PROJECT MANAGER/SUPERVISOR	GARY SHIRLEY/STAN GABLE

SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	FULL TCLP	PCB's	RCRA CHARACTERISTICS	TPH 418.1	TOX	BTU			REMARKS
INP-001	5/9/96			X	NORTH INFLUENT TUNNEL PRODUCT	1x1L 1x4oz	X	X	X	X	X	X			
MS-001	5/9/96		X		~~MATRIX SPIKE~~	1x4oz	X								Cancelled JD per JGS
MSD-001	5/9/96		X		~~MATRIX SPIKE DUPLICATE~~	1x4oz	X								Cancelled JD per JGS
DUP-001	5/9/96		X		DUPLICATE	1x4oz	X								
FB-001	5/9/96			X	FIELD BLANK	1x1L		X							
ER-001	5/9/96			X	EQUIPMENT RINSATE	1x1L		X							

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-6	P. CAVANAUGH	FED EX AIRBILL # 400-6007-3160	5/10/96		
2		Federal Express		5/10/96 > 5/11/96		
3		[signature]		5/11/96	1110	SAMPLER'S SIGNATURE
4						

SOLUTIONS LABORATORIES, INC.
4855 BROOKSIDE COURT
NORFOLK, VA 23502
(T) (804) 855-1888
(F) (804) 855-1777

CHAIN-OF-CUSTODY REPORT

SOLUTIONS LOG #: 051196-001-01>16

COMPANY NAME: OHM REMEDIATION SERVICES, CORP.
PROJECT MANAGER: GARY SHIRLEY
BILLING ADDRESS: 1508 FAUVER ROAD
GLEN ALLEN, VA 23060

TELEPHONE #: (800) 426-0127
P.O.#: 1023385
PROJECT NAME & #: SWMU #45 TANK CLOSURE - 17780

DATE/TIME RECEIVED: 05/11/96; 1110
SAMPLER: PAUL CAVANAUGH

SAMPLE ID	FIELD SAMPLE ID	SAMPLED DATE	SAMPLED TIME	# OF CONT.	CONTAINER	LOCATION	PRESERV.	MATRIX
01A1>A8	COMP INW-001	05/08/96	UNKNOWN	8	1 L GLASS	ROOSEVELT RDS, PUERTO RICO	H2SO4/ICE	WATER
01A9	COMP INW-001	05/08/96	UNKNOWN	1	500 ML AM	ROOSEVELT RDS, PUERTO RICO	ICE	WATER
01B1>B2	COMP INW-001	05/08/96	UNKNOWN	2	40 ML VOA	ROOSEVELT RDS, PUERTO RICO	HCL/ICE	WATER
02A1>A2 *	COMP INS-001	05/08/96	UNKNOWN	2	1 L GLASS	ROOSEVELT RDS, PUERTO RICO	ICE	SLUDGE
03A1>A8	COMP ISW-001	05/08/96	UNKNOWN	8	1 L GLASS	ROOSEVELT RDS, PUERTO RICO	H2SO4/ICE	WATER
03A9	COMP ISW-001	05/08/96	UNKNOWN	1	500 ML AM	ROOSEVELT RDS, PUERTO RICO	ICE	WATER
03B1>B2	COMP ISW-001	05/08/96	UNKNOWN	2	40 ML VOA	ROOSEVELT RDS, PUERTO RICO	HCL/ICE	WATER
04A1	COMP ISS-001	05/08/96	UNKNOWN	1	1 L GLASS	ROOSEVELT RDS, PUERTO RICO	ICE	SLUDGE
05A1>A8	COMP EW-001	05/09/96	UNKNOWN	8	1 L GLASS	ROOSEVELT RDS, PUERTO RICO	H2SO4/ICE	WATER
05A9	COMP EW-001	05/09/96	UNKNOWN	1	500 ML AM	ROOSEVELT RDS, PUERTO RICO	ICE	WATER
05B1>B2	COMP EW-001	05/09/96	UNKNOWN	2	40 ML VOA	ROOSEVELT RDS, PUERTO RICO	HCL/ICE	WATER
06A1>A2	COMP ES-001	05/09/96	UNKNOWN	2	1 L GLASS	ROOSEVELT RDS, PUERTO RICO	ICE	SLUDGE
07A1>A8	COMP NTW-001	05/09/96	UNKNOWN	8	1 L GLASS	ROOSEVELT RDS, PUERTO RICO	H2SO4/ICE	WATER
07A9	COMP NTW-001	05/09/96	UNKNOWN	1	500 ML AM	ROOSEVELT RDS, PUERTO RICO	ICE	WATER
07B1>B2	COMP NTW-001	05/09/96	UNKNOWN	2	40 ML VOA	ROOSEVELT RDS, PUERTO RICO	HCL/ICE	WATER
08A1	COMP NTS-001	05/09/96	UNKNOWN	1	1 L GLASS	ROOSEVELT RDS, PUERTO RICO	ICE	SLUDGE
09A1>A8	COMP STW-001	05/09/96	UNKNOWN	8	1 L GLASS	ROOSEVELT RDS, PUERTO RICO	H2SO4/ICE	WATER
09A9	COMP STW-001	05/09/96	UNKNOWN	1	500 ML AM	ROOSEVELT RDS, PUERTO RICO	ICE	WATER
09B1>B2	COMP STW-001	05/09/96	UNKNOWN	2	40 ML VOA	ROOSEVELT RDS, PUERTO RICO	HCL/ICE	WATER
10A1	COMP STS-001	05/09/96	UNKNOWN	1	1 L GLASS	ROOSEVELT RDS, PUERTO RICO	ICE	SLUDGE
11A1>A2	GRAB INP-001	05/09/96	UNKNOWN	2	1 L GL/4 OZ GL	ROOSEVELT RDS, PUERTO RICO	ICE	SLUDGE
12A1 *	COMP MS-001	05/09/96	UNKNOWN	1	4 OZ GL	ROOSEVELT RDS, PUERTO RICO	ICE	SLUDGE
13A1 *	COMP MSD-001	05/09/96	UNKNOWN	1	4 OZ GL	ROOSEVELT RDS, PUERTO RICO	ICE	SLUDGE
14A1	COMP DUP-001	05/09/96	UNKNOWN	1	4 OZ GL	ROOSEVELT RDS, PUERTO RICO	ICE	SLUDGE
15A1	GRAB FB-001	05/09/96	UNKNOWN	1	1 L GLASS	ROOSEVELT RDS, PUERTO RICO	ICE	WATER
16A1	GRAB ER-001	05/09/96	UNKNOWN	1	1 L GLASS	ROOSEVELT RDS, PUERTO RICO	ICE	WATER

SAMPLE ID	ANALYSIS TO BE PERFORMED	DUE DATE
01,03,05,07,09	FULL TCLP, I/R/C, TPH 418.1, TSS, ALKALINITY, SALINITY, IRON, MANGANESE, COD, TOC, HARDNESS	05/27/96
02,04,06,08,10,11	FULL TCLP, I/R/C, BTU	05/27/96
14A1	FULL TCLP	05/27/96
15A1,16A1	PCBs	05/27/96

*SAMPLE 02A2 (INS-001) BROKE UPON RECEIPT. SAMPLES 12A1 (MS-001) AND 13A1 (MSD-001) WERE CANCELLED AFTER RECEIPT OF SAMPLES.

CONDITION OF SAMPLE: GOOD

RECEIVED BY: RON HANNAN

RELINQUISHED BY: FEDERAL EXPRESS

SOLUTIONS LABORATORIES, INC.
4855 BROOKSIDE CT, SUITE H
NORFOLK, VA 23502

REPORT OF ANALYSIS

DATE: MAY 21, 1996

OHM REMEDIATION SERVICES CORP.
ATTN: GARY SHIRLEY
1508 FAUVER ROAD
GLEN ALLEN, VA 23060
(800) 426-0127

PROJECT NAME: SWMU #45 TANK CLOSURE
PROJECT NUMBER: 17780
LOCATION: ROOSEVELT ROADS, PUERTO RICO

SOLUTIONS LOG: 051196-001-01>16
MATRIX: SLUDGE, WATER
DATE/TIME SAMPLED: 05/08/96 & 05/09/96
P.O.#: 1023385

SOL LOG #	FIELD ID	ANALYSIS	RESULTS	UNITS	D.F.	DET LT.	METHOD/DATE/TIME/ANALYST
01A1	INW-001	TCLP ARSENIC	<0.002	mg/L	0.5	0.002	1311/7060/05-15-96/1012/DSS
01A1	INW-001	TCLP BARIUM	0.306	mg/L	0.5	0.009	1311/7080/05-20-96/1308/DSS
01A1	INW-001	TCLP CADMIUM	0.082	mg/L	0.5	0.003	1311/7130/05-15-96/0709/DSS
01A1	INW-001	TCLP CHROMIUM	0.078	mg/L	0.5	0.017	1311/7190/05-15-96/0648/DSS
01A1	INW-001	TCLP LEAD	<0.088	mg/L	0.5	0.088	1311/7420/05-15-96/0729/DSS
01A1	INW-001	TCLP MERCURY	<0.0005	mg/L	1.0	0.0005	1311/7470/05-17-96/1124/DSS
01A1	INW-001	TCLP SELENIUM	0.397	mg/L	0.5	0.002	1311/7740/05-19-96/1457/DSS
01A1	INW-001	TCLP SILVER	0.108	mg/L	0.5	0.004	1311/7760/05-19-96/1618/DSS
01A1	INW-001	IGNITABILITY	>100	oC	N/A	20	SW846-CH7,7.1/05-18-96/1500/ JG
01A1	INW-001	REACTIVITY	NEGATIVE	N/A	N/A	N/A	SW846-CH7.3/05-20-96/0400/ KN
01A1	INW-001	CORROSIVITY	7.0	N/A	N/A	N/A	SW 846-1110/05-15 -96/1400/ JG
01A4	INW-001	TPH 418.1	19.2	mg/L	1	2.11	418.1/05-16-96/1800/ JW
01A5	INW-001	TSS	534	mg/L	1	1.0	EPA 160.2/05-19-96/0215/ KN
01A5	INW-001	ALKALINITY	135	mg/L	1	2.0	EPA 310.1/05-21-96/0445/ KN
01A1	INW-001	SALINITY	6.98	N/A	1	0.01	2520/05-20-96/0300/ KN
01A1	INW-001	IRON	0.099	mg/L	0.5	0.025	EPA 236.1/05-18-96/1429/DSS
01A1	INW-001	MANGANESE	0.077	mg/L	0.5	0.060	EPA 243.1/05-18-96/1531/DSS
01A1	INW-001	COD	1200*	mg/L	1	1.0	EPA 410.1/05-21-96/1100/DSS
01A4	INW-001	TOC	4.09	mg/L	1	0.5	EPA 415.1/05-19-96/1200/ KN
01A1	INW-001	HARDNESS	6430	mg/L	1	5.0	EPA 130.1/05-16-96/1500/ JG

* POSSIBLE POSITIVE INTERFERENCES FROM THE SALINITY

SOLUTIONS LABORATORIES, INC.
4855 BROOKSIDE CT, SUITE H
NORFOLK, VA 23502

REPORT OF ANALYSIS

DATE: MAY 21, 1996

OHM REMEDIATION SERVICES CORP.
ATTN: GARY SHIRLEY
1508 FAUVER ROAD
GLEN ALLEN, VA 23060
(800) 426-0127

PROJECT NAME: SWMU #45 TANK CLOSURE
PROJECT NUMBER: 17780
LOCATION: ROOSEVELT ROADS, PUERTO RICO

SOLUTIONS LOG: 051196-001-01>16
MATRIX: SLUDGE, WATER
DATE/TIME SAMPLED: 05/08/96 & 05/09/96
P.O.#: 1023385

SOL LOG #	FIELD ID	ANALYSIS	RESULTS	UNITS	D.F.	DET LT.	METHOD/DATE/TIME/ANALYST
02A1	INS-001	TCLP ARSENIC	<0.002	mg/L	0.5	0.002	1311/7060/05-15-96/1012/DSS
02A1	INS-001	TCLP BARIUM	0.568	mg/L	0.5	0.009	1311/7080/05-20-96/1308/DSS
02A1	INS-001	TCLP CADMIUM	0.007	mg/L	0.5	0.003	1311/7130/05-15-96/0709/DSS
02A1	INS-001	TCLP CHROMIUM	0.024	mg/L	0.5	0.017	1311/7190/05-15-96/0648/DSS
02A1	INS-001	TCLP LEAD	0.090	mg/L	0.5	0.088	1311/7420/05-15-96/0729/DSS
02A1	INS-001	TCLP MERCURY	<0.0005	mg/L	1.0	0.0005	1311/7470/05-17-96/1124/DSS
02A1	INS-001	TCLP SELENIUM	0.005	mg/L	0.5	0.002	1311/7740/05-19-96/1457/DSS
02A1	INS-001	TCLP SILVER	<0.004	mg/L	0.5	0.004	1311/7760/05-19-96/1618/DSS
02A1	INS-001	IGNITABILITY	NEGATIVE	oC	N/A	20	SW846-CH7,7.1/05-18-96/1500/ JG
02A1	INS-001	REACTIVITY	NEGATIVE	N/A	N/A	N/A	SW846-CH7.3/05-20-96/0400/ KN
02A1	INS-001	CORROSIVITY	7.0	N/A	N/A	N/A	SW846-1110 /05-15-96/1400/ JG
02A1	INS-001	BTU'S	<50	BTU	1	50.0	ASTM D240 /05-20-96/0137/ KN

SOLUTIONS LABORATORIES, INC.
4855 BROOKSIDE CT, SUITE H
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DATE: MAY 21, 1996

OHM REMEDIATION SERVICES CORP.
ATTN: GARY SHIRLEY
1508 FAUVER ROAD
GLEN ALLEN, VA 23060
(800) 426-0127

PROJECT NAME: SWMU #45 TANK CLOSURE
PROJECT NUMBER: 17780
LOCATION: ROOSEVELT ROADS, PUERTO RICO.

SOLUTIONS LOG: 051196-001-01>16
MATRIX: SLUDGE, WATER
DATE/TIME SAMPLED: 05/08/96 & 05/09/96
P.O.#: 1023385

SOL LOG #	FIELD ID	ANALYSIS	RESULTS	UNITS	D.F.	DET LT.	METHOD/DATE/TIME/ANALYST
03A1	ISW-001	TCLP ARSENIC	0.003	mg/L	0.5	0.002	1311/7060/05-15-96/1012/DSS
03A1	ISW-001	TCLP BARIUM	0.165	mg/L	0.5	0.009	1311/7080/05-20-96/1308/DSS
03A1	ISW-001	TCLP CADMIUM	0.066	mg/L	0.5	0.003	1311/7130/05-15-96/0709/DSS
03A1	ISW-001	TCLP CHROMIUM	0.094	mg/L	0.5	0.017	1311/7190/05-15-96/0648/DSS
03A1	ISW-001	TCLP LEAD	<0.088	mg/L	0.5	0.088	1311/7420/05-15-96/0729/DSS
03A1	ISW-001	TCLP MERCURY	<0.0005	mg/L	1.0	0.0005	1311/7470/05-17-96/1124/DSS
03A1	ISW-001	TCLP SELENIUM	0.401	mg/L	0.5	0.002	1311/7740/05-19-96/1457/DSS
03A1	ISW-001	TCLP SILVER	0.097	mg/L	0.5	0.004	1311/7760/05-19-96/1618/DSS
03A1	ISW-001	IGNITABILITY	NEGATIVE	N/A	N/A	N/A	SW846-CH7,7.1/05-18-96/1500/ JG
03A1	ISW-001	REACTIVITY	NEGATIVE	N/A	N/A	N/A	SW846-CH7.3/05-20-96/0400/ KN
03A1	ISW-001	CORROSIVITY	6.0	N/A	N/A	N/A	SW846-1110/05-15-96/1400/ JG
03A4	ISW-001	TPH 418.1	4.05	mg/L	1	2.11	418.1/05-16-96/1800/ JW
03A11	ISW-001	TSS	666	mg/L	1	1.0	EPA 160.2/05-19-96/0215/ KN
03A1	ISW-001	ALKALINITY	131	mg/L	1	2.0	EPA 310.1/05-21-96/0445/ KN
03A1	ISW-001	SALINITY	5.76	N/A	1	0.01	2520/05-20-96/0300/ KN
03A1	ISW-001	IRON	0.160	mg/L	0.5	0.025	EPA 236.1/05-18-96/1429/DSS
03A1	ISW-001	MANGANESE	0.122	mg/L	0.5	0.060	EPA 243.1/05-18-96/1531/DSS
03A1	ISW-001	COD	1550*	mg/L	1	1.0	EPA 410.1/05-21-96/1100/DSS
03A4	ISW-001	TOC	7.69	mg/L	1	0.5	EPA 415.1/05-19-96/1200/ KN
03A1	ISW-001	HARDNESS	6540	mg/L	1	5.0	EPA 130.1/05-16-96/1500/ JG

*POSSIBLE POSITIVE INTERFERENCES FROM SALINITY

SOLUTIONS LABORATORIES, INC.
4855 BROOKSIDE CT, SUITE H
NORFOLK, VA 23502

REPORT OF ANALYSIS

DATE: MAY 21, 1996

OHM REMEDIATION SERVICES CORP.
ATTN: GARY SHIRLEY
1508 FAUVER ROAD
GLEN ALLEN, VA 23060
(800) 426-0127

PROJECT NAME: SWMU #45 TANK CLOSURE
PROJECT NUMBER: 17780
LOCATION: ROOSEVELT ROADS, PUERTO RICO

SOLUTIONS LOG: 051196-001-01>16
MATRIX: SLUDGE, WATER
DATE/TIME SAMPLED: 05/08/96 & 05/09/96
P.O.#: 1023385

SOL LOG #	FIELD ID	ANALYSIS	RESULTS	UNITS	D.F.	DET LT.	METHOD/DATE/TIME/ANALYST
04A1	ISS-001	TCLP ARSENIC	<0.002	mg/L	0.5	0.002	1311/7060/05-15-96/1012/DSS
04A1	ISS-001	TCLP BARIUM	0.145	mg/L	0.5	0.009	1311/7080/05-20-96/1308/DSS
04A1	ISS-001	TCLP CADMIUM	<0.003	mg/L	0.5	0.003	1311/7130/05-15-96/0709/DSS
04A1	ISS-001	TCLP CHROMIUM	0.028	mg/L	0.5	0.017	1311/7190/05-15-96/0648/DSS
04A1	ISS-001	TCLP LEAD	<0.088	mg/L	0.5	0.088	1311/7420/05-15-96/0729/DSS
04A1	ISS-001	TCLP MERCURY	<0.0005	mg/L	1.0	0.0005	1311/7470/05-17-96/1124/DSS
04A1	ISS-001	TCLP SELENIUM	0.008	mg/L	0.5	0.002	1311/7740/05-19-96/1457/DSS
04A1	ISS-001	TCLP SILVER	<0.004	mg/L	0.5	0.004	1311/7760/05-19-96/1618/DSS
04A1	ISS-001	IGNITABILITY	NEGATIVE	N/A	N/A	N/A	SW846-CH7,7.1/05-18-96/1500/ JG
04A1	ISS-001	REACTIVITY	NEGATIVE	N/A	N/A	N/A	SW846-CH7.3/05-20-96/0400/ KN
04A1	ISS-001	CORROSIVITY	7.0	N/A	N/A	N/A	SW846-1110/05-15-96/1400/ JG
04A1	ISS-001	BTU'S	<50	BTU	1	50.0	ASTM D240 /05-20-96/0137/ KN

SOLUTIONS LABORATORIES, INC.
4855 BROOKSIDE CT, SUITE H
NORFOLK, VA 23502

REPORT OF ANALYSIS

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OHM REMEDIATION SERVICES CORP.
ATTN: GARY SHIRLEY
1508 FAUVER ROAD
GLEN ALLEN, VA 23060
(800) 426-0127

PROJECT NAME: SWMU #45 TANK CLOSURE
PROJECT NUMBER: 17780
LOCATION: ROOSEVELT ROADS, PUERTO RICO

SOLUTIONS LOG: 051196-001-01>16
MATRIX: SLUDGE, WATER
DATE/TIME SAMPLED: 05/08/96 & 05/09/96
P.O.#: 1023385

SOL LOG #	FIELD ID	ANALYSIS	RESULTS	UNITS	D.F.	DET LT.	METHOD/DATE/TIME/ANALYST
05A1	EW-001	TCLP ARSENIC	<0.002	mg/L	0.5	0.002	1311/7060/05-15-96/1012/DSS
05A1	EW-001	TCLP BARIUM	0.765	mg/L	0.5	0.009	1311/7080/05-20-96/1308/DSS
05A1	EW-001	TCLP CADMIUM	<0.003	mg/L	0.5	0.003	1311/7130/05-15-96/0709/DSS
05A1	EW-001	TCLP CHROMIUM	<0.017	mg/L	0.5	0.017	1311/7190/05-15-96/0648/DSS
05A1	EW-001	TCLP LEAD	<0.088	mg/L	0.5	0.088	1311/7420/05-15-96/0729/DSS
05A1	EW-001	TCLP MERCURY	<0.0005	mg/L	1.0	0.0005	1311/7470/05-17-96/1124/DSS
05A1	EW-001	TCLP SELENIUM	0.005	mg/L	0.5	0.002	1311/7740/05-19-96/1457/DSS
05A1	EW-001	TCLP SILVER	<0.004	mg/L	0.5	0.004	1311/7760/05-19-96/1618/DSS
05A1	EW-001	IGNITABILITY	>100	oC	N/A	20	SW846-CH7,7.1/05-18-96/1500/ JG
05A1	EW-001	REACTIVITY	NEGATIVE	N/A	N/A	N/A	SW846-CH7.3/05-20-96/0400/ KN
05A1	EW-001	CORROSIVITY	8.0	N/A	N/A	N/A	SW846-1110/05-15-96/1400/ JG
05A4	EW-001	TPH 418.1	89.4	mg/L	2	4.22	418.1/05-16-96/1800/ JW
05A9	EW-001	TSS	590	mg/L	1	1.0	EPA 160.2/05-19-96/0215/ KN
05A1	EW-001	ALKALINITY	365	mg/L	1	2.0	EPA 310.1/05-21-96/0445/ KN
05A1	EW-001	SALINITY	0.078	N/A	1	0.01	2520/05-20-96/0300/ KN
05A1	EW-001	IRON	<0.025	mg/L	0.5	0.025	EPA 236.1/05-18-96/1429/DSS
05A1	EW-001	MANGANESE	0.301	mg/L	0.5	0.060	EPA 243.1/05-18-96/1531/DSS
05A1	EW-001	COD	150	mg/L	1	1.0	EPA 410.1/05-21-96/1100/DSS
05A4	EW-001	TOC	35.39	mg/L	1	0.5	EPA 415.1/05-19-96/1200/ KN
05A1	EW-001	HARDNESS	300	mg/L	1	5.0	EPA 130.1/05-16-96/1500/ JG

SOLUTIONS LABORATORIES, INC.
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REPORT OF ANALYSIS

DATE: MAY 21, 1996

OHM REMEDIATION SERVICES CORP.
ATTN: GARY SHIRLEY
1508 FAUVER ROAD
GLEN ALLEN, VA 23060
(800) 426-0127

PROJECT NAME: SWMU #45 TANK CLOSURE
PROJECT NUMBER: 17780
LOCATION: ROOSEVELT ROADS, PUERTO RICO

SOLUTIONS LOG: 051196-001-01>16
MATRIX: SLUDGE, WATER
DATE/TIME SAMPLED: 05/08/96 & 05/09/96
P.O.#: 1023385

SOL LOG #	FIELD ID	ANALYSIS	RESULTS	UNITS	D.F.	DET LT.	METHOD/DATE/TIME/ANALYST
06A1	INW-001	TCLP ARSENIC	<0.002	mg/L	0.5	0.002	1311/7060/05-15-96/1012/DSS
06A1	INW-001	TCLP BARIUM	0.096	mg/L	0.5	0.009	1311/7080/05-20-96/1308/DSS
06A1	INW-001	TCLP CADMIUM	<0.003	mg/L	0.5	0.003	1311/7130/05-15-96/0709/DSS
06A1	INW-001	TCLP CHROMIUM	0.031	mg/L	0.5	0.017	1311/7190/05-15-96/0648/DSS
06A1	INW-001	TCLP LEAD	0.092	mg/L	0.5	0.088	1311/7420/05-15-96/0729/DSS
06A1	INW-001	TCLP MERCURY	<0.0005	mg/L	1.0	0.0005	1311/7470/05-17-96/1124/DSS
06A1	INW-001	TCLP SELENIUM	0.017	mg/L	0.5	0.002	1311/7740/05-19-96/1457/DSS
06A1	INW-001	TCLP SILVER	<0.004	mg/L	0.5	0.004	1311/7760/05-19-96/1618/DSS
06A1	INW-001	IGNITABILITY	NEGATIVE	N/A	N/A	N/A	SW846-CH7,7.1/05-18-96/1500/ JG
06A1	INW-001	REACTIVITY	NEGATIVE	N/A	N/A	N/A	SW846-CH7.3/05-1 -96/ 00/ KN
06A1	INW-001	CORROSIVITY	7.5	N/A	N/A	N/A	SW846-1110/05-15-96/1400/ JG
06A1	INW-001	BTU'S	3390	BTU	1	50.0	ASTM D240 /05-20-96/0137/ KN

SOLUTIONS LABORATORIES, INC.
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NORFOLK, VA 23502

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1508 FAUVER ROAD
GLEN ALLEN, VA 23060
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SOLUTIONS LOG: 051196-001-01>16
MATRIX: SLUDGE, WATER
DATE/TIME SAMPLED: 05/08/96 & 05/09/96
P.O.#: 1023385

SOL LOG #	FIELD ID	ANALYSIS	RESULTS	UNITS	D.F.	DET LT.	METHOD/DATE/TIME/ANALYST
07A1	INW-001	TCLP ARSENIC	<0.002	mg/L	0.5	0.002	1311/7060/05-15-96/1012/DSS
07A1	INW-001	TCLP BARIUM	0.067	mg/L	0.5	0.009	1311/7080/05-20-96/1308/DSS
07A1	INW-001	TCLP CADMIUM	<0.003	mg/L	0.5	0.003	1311/7130/05-15-96/0709/DSS
07A1	INW-001	TCLP CHROMIUM	<0.017	mg/L	0.5	0.017	1311/7190/05-15-96/0648/DSS
07A1	INW-001	TCLP LEAD	0.114	mg/L	0.5	0.088	1311/7420/05-15-96/0729/DSS
07A1	INW-001	TCLP MERCURY	<0.0005	mg/L	1.0	0.0005	1311/7470/05-17-96/1124/DSS
07A1	INW-001	TCLP SELENIUM	0.025	mg/L	0.5	0.002	1311/7740/05-19-96/1457/DSS
07A1	INW-001	TCLP SILVER	0.108	mg/L	0.5	0.004	1311/7760/05-19-96/1618/DSS
07A1	INW-001	IGNITABILITY	>100	oC	N/A	20	SW846-CH7,7.1/05-18-96/1500/ JG
07A1	INW-001	REACTIVITY	NEGATIVE	N/A	N/A	N/A	SW846-CH7.3/05-20-96/0400/ KN
07A1	INW-001	CORROSIVITY	7.5	N/A	N/A	N/A	S2846-1110/05-15-96/1400/ JG
07A4	INW-001	TPH 418.1	6630	mg/L	100	211	418.1/05-16-96/1800/ JW
07A10	INW-001	TSS	66	mg/L	1	1.0	EPA 160.2/05-19-96/0215/ KN
07A1	INW-001	ALKALINITY	201	mg/L	1	2.0	EPA 310.1/05-21-96/0445/ KN
07A1	INW-001	SALINITY	0.078	N/A	1	0.01	2520/05-21-96/0300/ KN
07A1	INW-001	IRON	1.617	mg/L	0.5	0.025	EPA 236.1/05-18-96/1429/DSS
07A1	INW-001	MANGANESE	0.080	mg/L	0.5	0.060	EPA 243.1/05-18-96/1531/DSS
07A1	INW-001	COD	145	mg/L	1	1.0	EPA 410.1/05-21-96/1100/DSS
07A4	INW-001	TOC	30.18	mg/L	1	0.5	EPA 415.1/05-19-96/1200/ KN
07A1	INW-001	HARDNESS	150	mg/L	1	5.0	EPA 130.1/05-16-96/1500/ JG

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MATRIX: SLUDGE, WATER
DATE/TIME SAMPLED: 05/08/96 & 05/09/96
P.O.#: 1023385

SOL LOG #	FIELD ID	ANALYSIS	RESULTS	UNITS	D.F.	DET LT.	METHOD/DATE/TIME/ANALYST
08A1	INW-001	TCLP ARSENIC	<0.002	mg/L	0.5	0.002	1311/7060/05-15-96/1012/DSS
08A1	INW-001	TCLP BARIUM	1.500	mg/L	0.5	0.009	1311/7080/05-20-96/1308/DSS
08A1	INW-001	TCLP CADMIUM	<0.003	mg/L	0.5	0.003	1311/7130/05-15-96/0709/DSS
08A1	INW-001	TCLP CHROMIUM	<0.017	mg/L	0.5	0.017	1311/7190/05-15-96/0648/DSS
08A1	INW-001	TCLP LEAD	0.091	mg/L	0.5	0.088	1311/7420/05-15-96/0729/DSS
08A1	INW-001	TCLP MERCURY	<0.0005	mg/L	1.0	0.0005	1311/7470/05-17-96/1124/DSS
08A1	INW-001	TCLP SELENIUM	0.007	mg/L	0.5	0.002	1311/7740/05-19-96/1457/DSS
08A1	INW-001	TCLP SILVER	<0.004	mg/L	0.5	0.004	1311/7760/05-19-96/1618/DSS
08A1	INW-001	IGNITABILITY	NEGATIVE	N/A	N/A	N/A	SW846-CH7,7.1/05-18-96/1500/ JG
08A1	INW-001	REACTIVITY	NEGATIVE	N/A	N/A	N/A	SW846-CH7.3/05-20-96/0400/ KN
08A1	INW-001	CORROSIVITY	7.0	N/A	N/A	N/A	SW846-1110/05-15-96/1400/ JG
08A1	INW-001	BTU'S	<50	BTU	1	50.0	ASTM D240 /05-20-96/0137/ KN

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P.O.#: 1023385

SOL LOG #	FIELD ID	ANALYSIS	RESULTS	UNITS	D.F.	DET LT.	METHOD/DATE/TIME/ANALYST
09A1	INW-001	TCLP ARSENIC	<0.002	mg/L	0.5	0.002	1311/7060/05-15-96/1012/DSS
09A1	INW-001	TCLP BARIUM	0.765	mg/L	0.5	0.009	1311/7080/05-20-96/1308/DSS
09A1	INW-001	TCLP CADMIUM	<0.003	mg/L	0.5	0.003	1311/7130/05-15-96/0709/DSS
09A1	INW-001	TCLP CHROMIUM	<0.017	mg/L	0.5	0.017	1311/7190/05-15-96/0648/DSS
09A1	INW-001	TCLP LEAD	0.119	mg/L	0.5	0.088	1311/7420/05-15-96/0729/DSS
09A1	INW-001	TCLP MERCURY	<0.0005	mg/L	1.0	0.0005	1311/7470/05-17-96/1124/DSS
09A1	INW-001	TCLP SELENIUM	0.020	mg/L	0.5	0.002	1311/7740/05-19-96/1457/DSS
09A1	INW-001	TCLP SILVER	<0.004	mg/L	0.5	0.004	1311/7760/05-19-96/1618/DSS
09A1	INW-001	IGNITABILITY	>100	oC	N/A	20	SW846-CH7,7.1/05-18-96/1500/ JG
09A1	INW-001	REACTIVITY	NEGATIVE	N/A	N/A	N/A	SW846-CH7.3/05-20-96/0400/ KN
09A1	INW-001	CORROSIVITY	7.5	N/A	N/A	N/A	SW846-1110/05-15-96/1400/ JG
09A4	INW-001	TPH 418.1	7240	mg/L	1	211	418.1/05-16-96/1800/ JW
09A5	INW-001	TSS	170	mg/L	1	1.0	EPA 160.2/05-19-96/0215/ KN
09A1	INW-001	ALKALINITY	211	mg/L	1	2.0	EPA 310.1/05-21-96/0445/ KN
09A1	INW-001	SALINITY	0.078	N/A	1	0.01	2520/05-20-96/1130/ KN
09A1	INW-001	IRON	0.215	mg/L	1	0.025	EPA 236.1/05-18-96/1429/DSS
09A1	INW-001	MANGANESE	<0.060	mg/L	1	0.060	EPA 243.1/05-18-96/1531/DSS
09A1	INW-001	COD	120	mg/L	1	1.0	EPA 410.1/05-21-96/1100/DSS
09A4	INW-001	TOC	22.49	mg/L	1	0.5	EPA 415.1/05-19-96/1200/ KN
09A1	INW-001	HARDNESS	180	mg/L	1	5.0	EPA 130.1/05-16-96/1500/ JG

SOLUTIONS LABORATORIES, INC.
4855 BROOKSIDE CT, SUITE H
NORFOLK, VA 23502

REPORT OF ANALYSIS

DATE: MAY 21, 1996

OHM REMEDIATION SERVICES CORP.
ATTN: GARY SHIRLEY
1508 FAUVER ROAD
GLEN ALLEN, VA 23060
(800) 426-0127

PROJECT NAME: SWMU #45 TANK CLOSURE
PROJECT NUMBER: 17780
LOCATION: ROOSEVELT ROADS, PUERTO RICO

SOLUTIONS LOG: 051196-001-01>16
MATRIX: SLUDGE, WATER
DATE/TIME SAMPLED: 05/08/96 & 05/09/96
P.O.#: 1023385

SOL LOG #	FIELD ID	ANALYSIS	RESULTS	UNITS	D.F.	DET LT.	METHOD/DATE/TIME/ANALYST
10A1	INW-001	TCLP ARSENIC	<0.002	mg/L	0.5	0.002	1311/7060/05-15-96/1012/DSS
10A1	INW-001	TCLP BARIUM	0.700	mg/L	0.5	0.009	1311/7080/05-20-96/1308/DSS
10A1	INW-001	TCLP CADMIUM	<0.003	mg/L	0.5	0.003	1311/7130/05-15-96/0709/DSS
10A1	INW-001	TCLP CHROMIUM	0.026	mg/L	0.5	0.017	1311/7190/05-15-96/0648/DSS
10A1	INW-001	TCLP LEAD	0.149	mg/L	0.5	0.088	1311/7420/05-15-96/0729/DSS
10A1	INW-001	TCLP MERCURY	<0.0005	mg/L	1.0	0.0005	1311/7470/05-17-96/1124/DSS
10A1	INW-001	TCLP SELENIUM	0.002	mg/L	0.5	0.002	1311/7740/05-19-96/1457/DSS
10A1	INW-001	TCLP SILVER	<0.004	mg/L	0.5	0.004	1311/7760/05-19-96/1618/DSS
10A1	INW-001	IGNITABILITY	NEGATIVE	N/A	N/A	N/A	SW846-CH7,7.1/05-18-96/1500/ JG
10A1	INW-001	REACTIVITY	NEGATIVE	N/A	N/A	N/A	SW846-CH7.3/05-20-96/0400/ KN
10A1	INW-001	CORROSIVITY	7.0	N/A	N/A	N/A	S2846-1110/05-15-96/1400/ JG
10A1	INW-001	BTU'S	<50	BTU	1	50.0	ASTM D240 /05-20-96/0137/ KN

SOLUTIONS LABORATORIES, INC.
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NORFOLK, VA 23502

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OHM REMEDIATION SERVICES CORP.
ATTN: GARY SHIRLEY
1508 FAUVER ROAD
GLEN ALLEN, VA 23060
(800) 426-0127

PROJECT NAME: SWMU #45 TANK CLOSURE
PROJECT NUMBER: 17780
LOCATION: ROOSEVELT ROADS, PUERTO RICO

SOLUTIONS LOG: 051196-001-01>16
MATRIX: SLUDGE, WATER
DATE/TIME SAMPLED: 05/08/96 & 05/09/96
P.O.#: 1023385

SOL LOG #	FIELD ID	ANALYSIS	RESULTS	UNITS	D.F.	DET LT.	METHOD/DATE/TIME/ANALYST
11A1	INW-001	TCLP ARSENIC	<0.002	mg/L	0.5	0.002	1311/7060/05-15-96/1012/DSS
11A1	INW-001	TCLP BARIUM	0.534	mg/L	0.5	0.009	1311/7080/05-20-96/1308/DSS
11A1	INW-001	TCLP CADMIUM	<0.003	mg/L	0.5	0.003	1311/7130/05-15-96/0709/DSS
11A1	INW-001	TCLP CHROMIUM	0.623	mg/L	0.5	0.017	1311/7190/05-15-96/0648/DSS
11A1	INW-001	TCLP LEAD	0.118	mg/L	0.5	0.088	1311/7420/05-15-96/0729/DSS
11A1	INW-001	TCLP MERCURY	<0.0005	mg/L	1.0	0.0005	1311/7470/05-17-96/1124/DSS
11A1	INW-001	TCLP SELENIUM	0.006	mg/L	0.5	0.002	1311/7740/05-19-96/1457/DSS
11A1	INW-001	TCLP SILVER	0.108	mg/L	0.5	0.004	1311/7760/05-19-96/1618/DSS
11A1	INW-001	IGNITABILITY	NEGATIVE	N/A	N/A	N/A	SW846-CH7,7.1/05-18-96/1500/ JG
11A1	INW-001	REACTIVITY	NEGATIVE	N/A	N/A	N/A	SW846-CH7.3/05-20-96/0400/ KN
11A1	INW-001	CORROSIVITY	7.0	N/A	N/A	N/A	SW846-1110/05-15-96/1400/ JG
11A1	INW-001	BTU'S	8841	BTU	1	50.0	ASTM D240 /05-20-96/0137/ KN

SOLUTIONS LABORATORIES, INC.
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GLEN ALLEN, VA 23060
(800) 426-0127

PROJECT NAME: SWMU #45 TANK CLOSURE
PROJECT NUMBER: 17780
LOCATION: ROOSEVELT ROADS, PUERTO RICO

SOLUTIONS LOG: 051196-001-01>16
MATRIX: SLUDGE, WATER
DATE/TIME SAMPLED: 05/08/96 & 05/09/96
P.O.#: 1023385

SOL LOG #	FIELD ID	ANALYSIS	RESULTS	UNITS	D.F.	DET LT.	METHOD/DATE/TIME/ANALYST
14A1	INW-001	TCLP ARSENIC	<0.002	mg/L	0.5	0.002	1311/7060/05-15-96/1012/DSS
14A1	INW-001	TCLP BARIUM	0.724	mg/L	0.5	0.009	1311/7080/05-20-96/1308/DSS
14A1	INW-001	TCLP CADMIUM	<0.003	mg/L	0.5	0.003	1311/7130/05-15-96/0709/DSS
14A1	INW-001	TCLP CHROMIUM	0.040	mg/L	0.5	0.017	1311/7190/05-15-96/0648/DSS
14A1	INW-001	TCLP LEAD	0.097	mg/L	0.5	0.088	1311/7420/05-15-96/0729/DSS
14A1	INW-001	TCLP MERCURY	<0.0005	mg/L	1.0	0.0005	1311/7470/05-17-96/1124/DSS
14A1	INW-001	TCLP SELENIUM	0.005	mg/L	0.5	0.002	1311/7740/05-19-96/1457/DSS
14A1	INW-001	TCLP SILVER	<0.004	mg/L	0.5	0.004	1311/7760/05-19-96/1618/DSS

SOLUTIONS LABORATORIES, INC.
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GLEN ALLEN, VA 23060
(800) 426-0127

PROJECT NAME: SWMU #45 TANK CLOSURE
PROJECT NUMBER: 17780
LOCATION: ROOSEVELT ROADS, PUERTO RICO

SOLUTIONS LOG: 051196-001-01>16
MATRIX: SLUDGE, WATER
DATE/TIME SAMPLED: 05/08/96 & 05/09/96
P.O.#: 1023385

TCLP-8080

FIELD ID:	INW-001	INS-001	ISW-001	ISS-001
LAB NO:	01A1	02A1	03A1	04A1
DATE SAMPLED:	05/08/96	05/08/96	05/08/96	05/08/96
DATE RECEIVED:	05/11/96	05/11/96	05/11/96	05/11/96
DATE EXTRACTED:	05/11/96	05/17/96	05/13/96	05/17/96
DATE ANALYZED:	05/13/96	05/19/96	05/19/96	05/19/96
INSTRUMENT ID:	HP ECD	HP ECD	HP ECD	HP ECD
DILUTION FACTOR:	0.1	0.1	0.75	0.1
UNITS:	mg/L	mg/L	mg/L	mg/L
COMPOUND				
CHLORDANE	< 0.025	< 0.025	< 0.188	< 0.025
ENDRIN	< 0.002	< 0.002	< 0.015	< 0.002
HEPTACHLOR	< 0.001	< 0.001	< 0.008	< 0.001
HEPTACHLOR EPOXIDE	< 0.001	< 0.001	< 0.008	< 0.001
METHOXYCHLOR	< 0.010	< 0.010	< 0.075	< 0.010
TOXAPHENE	< 0.050	< 0.050	< 0.375	< 0.050
AROCHLOR 1260	0.012	0.009	0.045	0.013
ALL OTHER AROCHLORS	< 0.003	< 0.003	< 0.023	< 0.003

SOLUTIONS LABORATORIES, INC.
4855 BROOKSIDE CT, SUITE H
NORFOLK, VA 23502

REPORT OF ANALYSIS

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ATTN: GARY SHIRLEY
1508 FAUVER ROAD
GLEN ALLEN, VA 23060
(800) 426-0127

PROJECT NAME: SWMU #45 TANK CLOSURE
PROJECT NUMBER: 17780
LOCATION: ROOSEVELT ROADS, PUERTO RICO

SOLUTIONS LOG: 051196-001-01>16
MATRIX: SLUDGE, WATER
DATE/TIME SAMPLED: 05/08/96 & 05/09/96
P.O.#: 1023385

TCLP-8080

FIELD ID:	INW-001	INS-001	ISW-001	ISS-001
LAB NO:	05A1	06A1	07A1	08A1
DATE SAMPLED:	05/09/96	05/09/96	05/09/96	05/09/96
DATE RECEIVED:	05/11/96	05/11/96	05/11/96	05/11/96
DATE EXTRACTED:	05/19/96	05/19/96	05/19/96	05/17/96
DATE ANALYZED:	05/13/96	05/19/96	05/19/96	05/19/96
INSTRUMENT ID:	HP ECD	HP ECD	HP ECD	HP ECD
DILUTION FACTOR:	0.1	0.1	1.0	0.1
UNITS:	mg/L	mg/L	mg/L	mg/L
COMPOUND				
CHLORDANE	< 0.025	< 0.025	< 0.25	< 0.025
ENDRIN	< 0.002	< 0.002	< 0.020	< 0.002
HEPTACHLOR	< 0.001	< 0.001	< 0.010	< 0.001
HEPTACHLOR EPOXIDE	< 0.001	< 0.001	< 0.010	< 0.001
METHOXYCHLOR	< 0.010	< 0.010	< 0.010	< 0.010
TOXAPHENE	< 0.050	< 0.050	< 0.500	< 0.050
AROCHLOR 1260	0.013	0.006	0.018	0.004
ALL OTHER AROCHLORS	< 0.003	< 0.003	< 0.030	< 0.003

SOLUTIONS LABORATORIES, INC.
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NORFOLK, VA 23502

REPORT OF ANALYSIS

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OHM REMEDIATION SERVICES CORP.
ATTN: GARY SHIRLEY
1508 FAUVER ROAD
GLEN ALLEN, VA 23060
(800) 426-0127

PROJECT NAME: SWMU #45 TANK CLOSURE
PROJECT NUMBER: 17780
LOCATION: ROOSEVELT ROADS, PUERTO RICO

SOLUTIONS LOG: 051196-001-01>16
MATRIX: SLUDGE, WATER
DATE/TIME SAMPLED: 05/08/96 & 05/09/96
P.O.#: 1023385

TCLP-8080

FIELD ID:	INW-001	INS-001	ISW-001	DUP-001
LAB NO:	09A1	10A1	11A1	14A1
DATE SAMPLED:	05/09/96	05/09/96	05/09/96	05/09/96
DATE RECEIVED:	05/11/96	05/11/96	05/11/96	05/11/96
DATE EXTRACTED:	05/13/96	05/17/96	05/17/96	05/18/96
DATE ANALYZED:	05/19/96	05/19/96	05/19/96	05/19/96
INSTRUMENT ID:	HP ECD	HP ECD	HP ECD	HP ECD
DILUTION FACTOR:	1.0	0.1	0.5	0.1
UNITS:	mg/L	mg/L	mg/L	mg/L
COMPOUND				
CHLORDANE	< 0.25	< 0.025	< 0.125	< 0.050
ENDRIN	< 0.02	< 0.002	< 0.010	< 0.004
HEPTACHLOR	< 0.01	< 0.001	< 0.005	< 0.002
HEPTACHLOR EPOXIDE	< 0.01	< 0.001	< 0.005	< 0.002
METHOXYCHLOR	< 0.10	< 0.010	< 0.050	< 0.020
TOXAPHENE	< 0.50	< 0.050	< 0.250	< 0.100
AROCHLOR 1260	< 0.025	< 0.003	< 0.015	0.012
ALL OTHER AROCHLORS	< 0.03	< 0.003	< 0.015	< 0.006

SOLUTIONS LABORATORIES, INC.
4855 BROOKSIDE CT, SUITE H
NORFOLK, VA 23502

REPORT OF ANALYSIS

DATE: MAY 21, 1996

OHM REMEDIATION SERVICES CORP.
ATTN: GARY SHIRLEY
1508 FAUVER ROAD
GLEN ALLEN, VA 23060
(800) 426-0127

PROJECT NAME: SWMU #45 TANK CLOSURE
PROJECT NUMBER: 17780
LOCATION: ROOSEVELT ROADS, PUERTO RICO

SOLUTIONS LOG: 051196-001-01>16
MATRIX: SLUDGE, WATER
DATE/TIME SAMPLED: 05/08/96 & 05/09/96
P.O.#: 1023385

TCLP-8080

FIELD ID:	INW-001	INS-001
LAB NO:	15A1	16A1
DATE SAMPLED:	05/09/96	05/09/96
DATE RECEIVED:	05/11/96	05/11/96
DATE EXTRACTED:	05/13/96	05/17/96
DATE ANALYZED:	05/19/96	05/19/96
INSTRUMENT ID:	HP ECD	HP ECD
DILUTION FACTOR:	0.01	0.01
UNITS:	mg/L	mg/L
COMPOUND		
CHLORDANE	< 0.0025	< 0.0025
ENDRIN	< 0.0002	< 0.0002
HEPTACHLOR	< 0.0001	< 0.0001
HEPTACHLOR EPOXIDE	< 0.0001	< 0.0001
METHOXYCHLOR	< 0.0010	< 0.0010
TOXAPHENE	< 0.0050	< 0.0050
AROCHLOR 1260	< 0.0025	< 0.0003
ALL OTHER AROCHLORS	< 0.0003	< 0.0003

SOLUTIONS LABORATORIES, INC.
4855 BROOKSIDE CT, SUITE H
NORFOLK, VA 23502

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ATTN: GARY SHIRLEY
1508 FAUVER ROAD
GLEN ALLEN, VA 23060
(800) 426-0127

PROJECT NAME: SWMU #45 TANK CLOSURE
PROJECT NUMBER: 17780
LOCATION: ROOSEVELT ROADS, PUERTO RICO

SOLUTIONS LOG: 051196-001-01>16
MATRIX: SLUDGE, WATER
DATE/TIME SAMPLED: 05/08/96 & 05/09/96
P.O.#: 1023385

TCLP-8150

FIELD ID:	INW-001	INS-001	ISW-001	ISS-001
LAB NO:	01A1	02A1	03A1	04A1
DATE SAMPLED:	05/08/96	05/08/96	05/08/96	05/08/96
DATE RECEIVED:	05/11/96	05/11/96	05/11/96	05/11/96
DATE EXTRACTED:	05/19/96	05/19/96	05/19/96	05/19/96
DATE ANALYZED:	05/21/96	05/21/96	05/21/96	05/21/96
INSTRUMENT ID:	HP ECD	HP ECD	HP ECD	HP ECD
DILUTION FACTOR:	0.001	0.001	0.001	0.001
UNITS:	mg/L	mg/L	mg/L	mg/L
COMPOUND				
2,4-D	< 0.005	< 0.005	< 0.005	< 0.005
2,4,5-TP	< 0.001	< 0.001	< 0.001	< 0.001

SOLUTIONS LABORATORIES, INC.
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GLEN ALLEN, VA 23060
(800) 426-0127

PROJECT NAME: SWMU #45 TANK CLOSURE
PROJECT NUMBER: 17780
LOCATION: ROOSEVELT ROADS, PUERTO RICO

SOLUTIONS LOG: 051196-001-01>16
MATRIX: SLUDGE, WATER
DATE/TIME SAMPLED: 05/08/96 & 05/09/96
P.O.#: 1023385

TCLP-8150

FIELD ID:	INW-001	INS-001	ISW-001	ISS-001
LAB NO:	05A1	06A1	07A1	08A1
DATE SAMPLED:	05/09/96	05/09/96	05/09/96	05/09/96
DATE RECEIVED:	05/11/96	05/11/96	05/11/96	05/11/96
DATE EXTRACTED:	05/19/96	05/19/96	05/19/96	05/19/96
DATE ANALYZED:	05/21/96	05/21/96	05/21/96	05/21/96
INSTRUMENT ID:	HP ECD	HP ECD	HP ECD	HP ECD
DILUTION FACTOR:	0.001	0.001	0.001	0.001
UNITS:	mg/L	mg/L	mg/L	mg/L
COMPOUND				
2,4-D	< 0.005	< 0.005	< 0.005	< 0.005
2,4,5-TP	< 0.001	< 0.001	< 0.001	< 0.001

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PROJECT NAME: SWMU #45 TANK CLOSURE
PROJECT NUMBER: 17780
LOCATION: ROOSEVELT ROADS, PUERTO RICO

SOLUTIONS LOG: 051196-001-01>16
MATRIX: SLUDGE, WATER
DATE/TIME SAMPLED: 05/08/96 & 05/09/96
P.O.#: 1023385

TCLP-8150

FIELD ID:	INW-001	INS-001	ISW-001	DUP-001
LAB NO:	09A1	10A1	11A1	14A1
DATE SAMPLED:	05/09/96	05/09/96	05/09/96	05/09/96
DATE RECEIVED:	05/11/96	05/11/96	05/11/96	05/11/96
DATE EXTRACTED:	05/19/96	05/19/96	05/19/96	05/19/96
DATE ANALYZED:	05/21/96	05/21/96	05/21/96	05/21/96
INSTRUMENT ID:	HP ECD	HP ECD	HP ECD	HP ECD
DILUTION FACTOR:	0.001	0.001	0.001	0.001
UNITS:	mg/L	mg/L	mg/L	mg/L
COMPOUND				
2,4-D	< 0.005	< 0.005	< 0.005	< 0.005
2,4,5-TP	< 0.001	< 0.001	< 0.001	< 0.001

SOLUTIONS LABORATORIES, INC.
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OHM REMEDIATION SERVICES CORP.
ATTN: GARY SHIRLEY
1508 FAUVER ROAD
GLEN ALLEN, VA 23060
(800) 426-0127

PROJECT NAME: SWMU #45 TANK CLOSURE
PROJECT NUMBER: 17780
LOCATION: ROOSEVELT ROADS, PUERTO RICO

SOLUTIONS LOG: 051196-001-01>16
MATRIX: SLUDGE, WATER
DATE/TIME SAMPLED: 05/08/96 & 05/09/96
P.O.#: 1023385

TCLP-8270

FIELD ID:	INW-001	INS-001	ISW-001	ISS-001
LAB NO:	01A1	02A1	03A1	04A1
DATE SAMPLED:	05/08/96	05/08/96	05/08/96	05/08/96
DATE RECEIVED:	05/11/96	05/11/96	05/11/96	05/11/96
DATE EXTRACTED:	05/17/96	05/15/96	05/17/96	05/15/96
DATE ANALYZED:	05/18/96	05/16/96	05/18/96	05/16/96
INSTRUMENT ID:	HP GC/MS	HP GC/MS	HP GC/MS	HP GC/MS
DILUTION FACTOR:	0.001	0.01	0.001	0.001
UNITS:	mg/L	mg/L	mg/L	mg/L
COMPOUND				
PYRIDINE	< 0.005	< 0.05	< 0.005	< 0.005
1,4-DICHLOROBENZENE	< 0.005	< 0.05	< 0.005	< 0.005
2-METHYLPHENOL	< 0.005	< 0.05	< 0.005	< 0.005
HEXACHLOROETHANE	< 0.005	< 0.05	< 0.005	< 0.005
3&4-METHYLPHENOL	< 0.005	< 0.05	< 0.005	< 0.005
NITROBENZENE	< 0.005	< 0.05	< 0.005	< 0.005
HEXACHLOROBUTADIENE	< 0.005	< 0.05	< 0.005	< 0.005
2,4,6-TRICHLOROPHENOL	< 0.005	< 0.05	< 0.005	< 0.005
2,4,5-TRICHLOROPHENOL	< 0.005	< 0.05	< 0.005	< 0.005
2,4-DINITROTOLUENE	< 0.005	< 0.05	< 0.005	< 0.005
HEXACHLOROBENZENE	< 0.005	< 0.05	< 0.005	< 0.005
PENTACHLOROPHENOL	< 0.005	< 0.05	< 0.005	< 0.005

SOLUTIONS LABORATORIES, INC.
4855 BROOKSIDE CT, SUITE H
NORFOLK, VA 23502

REPORT OF ANALYSIS

DATE: MAY 21, 1996

OHM REMEDIATION SERVICES CORP.
ATTN: GARY SHIRLEY
1508 FAUVER ROAD
GLEN ALLEN, VA 23060
(800) 426-0127

PROJECT NAME: SWMU #45 TANK CLOSURE
PROJECT NUMBER: 17780
LOCATION: ROOSEVELT ROADS, PUERTO RICO

SOLUTIONS LOG: 051196-001-01>16
MATRIX: SLUDGE, WATER
DATE/TIME SAMPLED: 05/08/96 & 05/09/96
P.O.#: 1023385

TCLP-8270

FIELD ID:	INW-001	INS-001	ISW-001	ISS-001
LAB NO:	05A1	06A1	07A1	08A1
DATE SAMPLED:	05/09/96	05/09/96	05/09/96	05/09/96
DATE RECEIVED:	05/11/96	05/11/96	05/11/96	05/11/96
DATE EXTRACTED:	05/17/96	05/15/96	05/17/96	05/15/96
DATE ANALYZED:	05/18/96	05/16/96	05/18/96	05/17/96
INSTRUMENT ID:	HP GC/MS	HP GC/MS	HP GC/MS	HP GC/MS
DILUTION FACTOR:	0.001	0.05	0.001	0.001
UNITS:	mg/L	mg/L	mg/L	mg/L
COMPOUND				
PYRIDINE	< 0.005	< 0.250	< 0.005	< 0.005
1,4-DICHLOROBENZENE	< 0.005	< 0.250	< 0.005	< 0.005
2-METHYLPHENOL	< 0.005	< 0.250	< 0.005	< 0.005
HEXACHLOROETHANE	< 0.005	< 0.250	< 0.005	< 0.005
3&4-METHYLPHENOL	< 0.005	< 0.250	< 0.005	< 0.005
NITROBENZENE	< 0.005	< 0.250	< 0.005	< 0.005
HEXACHLOROBUTADIENE	< 0.005	< 0.250	< 0.005	< 0.005
2,4,6-TRICHLOROPHENOL	< 0.005	< 0.250	< 0.005	< 0.005
2,4,5-TRICHLOROPHENOL	< 0.005	< 0.250	< 0.005	< 0.005
2,4-DINITROTOLUENE	< 0.005	< 0.250	< 0.005	< 0.005
HEXACHLOROBENZENE	< 0.005	< 0.250	< 0.005	< 0.005
PENTACHLOROPHENOL	< 0.005	< 0.250	< 0.005	< 0.005

SOLUTIONS LABORATORIES, INC.
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MATRIX: SLUDGE, WATER
DATE/TIME SAMPLED: 05/08/96 & 05/09/96
P.O.#: 1023385

TCLP-8270

FIELD ID:	INW-001	INS-001	ISW-001	DUP-001
LAB NO:	09A1	10A1	11A1	14A1
DATE SAMPLED:	05/09/96	05/09/96	05/09/96	05/09/96
DATE RECEIVED:	05/11/96	05/11/96	05/11/96	05/11/96
DATE EXTRACTED:	05/17/96	05/15/96	05/15/96	05/18/96
DATE ANALYZED:	05/18/96	05/17/96	05/17/96	05/18/96
INSTRUMENT ID:	HP GC/MS	HP GC/MS	HP GC/MS	HP GC/MS
DILUTION FACTOR:	0.001	0.001	0.001	0.001
UNITS:	mg/L	mg/L	mg/L	mg/L
COMPOUND				
PYRIDINE	< 0.005	< 0.005	< 0.005	< 0.005
1,4-DICHLOROBENZENE	< 0.005	< 0.005	< 0.005	< 0.005
2-METHYLPHENOL	< 0.005	< 0.005	< 0.005	< 0.005
HEXACHLOROETHANE	< 0.005	< 0.005	< 0.005	< 0.005
3&4-METHYLPHENOL	< 0.005	< 0.005	< 0.005	< 0.005
NITROBENZENE	< 0.005	< 0.005	< 0.005	< 0.005
HEXACHLOROBUTADIENE	< 0.005	< 0.005	< 0.005	< 0.005
2,4,6-TRICHLOROPHENOL	< 0.005	< 0.005	< 0.005	< 0.005
2,4,5-TRICHLOROPHENOL	< 0.005	< 0.005	< 0.005	< 0.005
2,4-DINITROTOLUENE	< 0.005	< 0.005	< 0.005	< 0.005
HEXACHLOROBENZENE	< 0.005	< 0.005	< 0.005	< 0.005
PENTACHLOROPHENOL	< 0.005	< 0.005	< 0.005	< 0.005

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PROJECT NUMBER: 17780
LOCATION: ROOSEVELT ROADS, PUERTO RICO

SOLUTIONS LOG: 051196-001-01>16
MATRIX: SLUDGE, WATER
DATE/TIME SAMPLED: 05/08/96 & 05/09/96
P.O.#: 1023385

TCLP 8240

FIELD ID:	INW-001	INS-001	ISW-001	ISS-001
LAB NO:	01A10	02A1	03A6	04A1
DATE SAMPLED:	05/08/96	05/08/96	05/08/96	05/08/96
DATE RECEIVED:	05/11/96	05/11/96	05/11/96	05/11/96
DATE EXTRACTED:	05/17/96	05/17/96	05/17/96	05/17/96
DATE ANALYZED:	05/19/96	05/20/96	05/19/96	05/20/96
INSTRUMENT ID:	HP GC/MS	HP GC/MS	HP GC/MS	HP GC/MS
DILUTION FACTOR:	25	25	25	25
UNITS:	mg/L	mg/L	mg/L	mg/L
COMPOUNDS				
VINYL CHLORIDE	< 0.050	< 0.050	< 0.050	< 0.050
1,1-DICHLOROETHENE	< 0.050	< 0.050	< 0.050	< 0.050
2-BUTANONE	< 0.050	< 0.050	< 0.050	< 0.050
CHLOROFORM	< 0.050	< 0.050	< 0.050	< 0.050
CARBON TETRACHLORIDE	< 0.050	< 0.050	< 0.050	< 0.050
BENZENE	< 0.050	< 0.050	< 0.050	< 0.050
1,2-DICHLOROETHANE	< 0.050	< 0.050	< 0.050	< 0.050
TRICHLOROETHENE	< 0.050	< 0.050	< 0.050	< 0.050
TETRACHLOROETHYLENE	< 0.050	< 0.050	< 0.050	< 0.050
CHLOROBENZENE	< 0.050	< 0.050	< 0.050	< 0.050
1,4-DICHLOROBENZENE	< 0.050	< 0.050	< 0.050	< 0.050

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PROJECT NUMBER: 17780
LOCATION: ROOSEVELT ROADS, PUERTO RICO

SOLUTIONS LOG: 051196-001-01>16
MATRIX: SLUDGE, WATER
DATE/TIME SAMPLED: 05/08/96 & 05/09/96
P.O.#: 1023385

TCLP 8240

FIELD ID:	INW-001	INS-001	ISW-001	ISS-001
LAB NO:	05A11	06A1	07A6	08A1
DATE SAMPLED:	05/08/96	05/08/96	05/08/96	05/08/96
DATE RECEIVED:	05/11/96	05/11/96	05/11/96	05/11/96
DATE EXTRACTED:	05/17/96	05/17/96	05/17/96	05/17/96
DATE ANALYZED:	05/19/96	05/20/96	05/19/96	05/20/96
INSTRUMENT ID:	HP GC/MS	HP GC/MS	HP GC/MS	HP GC/MS
DILUTION FACTOR:	25	25	25	25
UNITS:	mg/L	mg/L	mg/L	mg/L
COMPOUNDS				
VINYL CHLORIDE	< 0.050	< 0.050	< 0.050	< 0.050
1,1-DICHLOROETHENE	< 0.050	< 0.050	< 0.050	< 0.050
2-BUTANONE	< 0.050	< 0.050	< 0.050	< 0.050
CHLOROFORM	< 0.050	< 0.050	< 0.050	< 0.050
CARBON TETRACHLORIDE	< 0.050	< 0.050	< 0.050	< 0.050
BENZENE	< 0.050	< 0.050	< 0.050	< 0.050
1,2-DICHLOROETHANE	< 0.050	< 0.050	< 0.050	< 0.050
TRICHLOROETHENE	< 0.050	< 0.050	< 0.050	< 0.050
TETRACHLOROETHYLENE	< 0.050	< 0.050	< 0.050	< 0.050
CHLOROBENZENE	< 0.050	< 0.050	< 0.050	< 0.050
1,4-DICHLOROBENZENE	< 0.050	< 0.050	< 0.050	< 0.050

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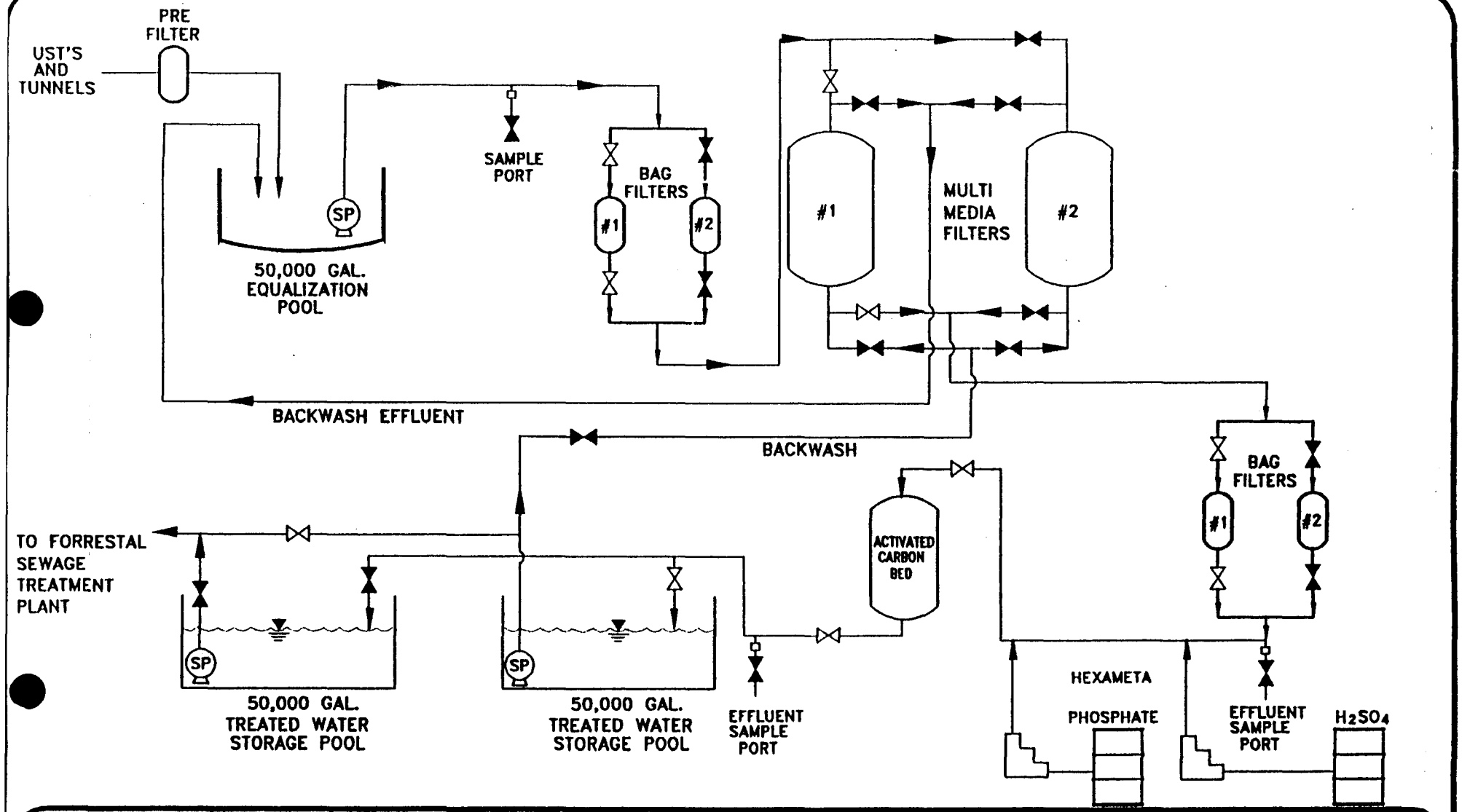
FIELD ID:	INW-001	INS-001	ISW-001	DUP-001
LAB NO:	09A10	10A1	11A1	14A1
DATE SAMPLED:	05/08/96	05/08/96	05/08/96	05/08/96
DATE RECEIVED:	05/11/96	05/11/96	05/11/96	05/11/96
DATE EXTRACTED:	05/18/96	05/18/96	05/18/96	05/18/96
DATE ANALYZED:	05/19/96	05/20/96	05/20/96	05/20/96
INSTRUMENT ID:	HP GC/MS	HP GC/MS	HP GC/MS	HP GC/MS
DILUTION FACTOR:	25	25	25	25
UNITS:	mg/L	mg/L	mg/L	mg/L
COMPOUNDS				
VINYL CHLORIDE	< 0.050	< 0.050	< 0.050	< 0.050
1,1-DICHLOROETHENE	< 0.050	< 0.050	< 0.050	< 0.050
2-BUTANONE	< 0.050	< 0.050	< 0.050	< 0.050
CHLOROFORM	< 0.050	< 0.050	< 0.050	< 0.050
CARBON TETRACHLORIDE	< 0.050	< 0.050	< 0.050	< 0.050
BENZENE	< 0.050	< 0.050	< 0.050	< 0.050
1,2-DICHLOROETHANE	< 0.050	< 0.050	< 0.050	< 0.050
TRICHLOROETHENE	< 0.050	< 0.050	< 0.050	< 0.050
TETRACHLOROETHYLENE	< 0.050	< 0.050	< 0.050	< 0.050
CHLOROBENZENE	< 0.050	< 0.050	< 0.050	< 0.050
1,4-DICHLOROBENZENE	< 0.050	< 0.050	< 0.050	< 0.050

REVIEWED BY:
Dorothy S Small JD
DOROTHY S. SMALL

ATTACHMENT No.4

Figure 4-1 Process Flow Diagram



Legend

SP — ELECTRIC SUBMERSIBLE PUMP

METERING PUMP

OHM Remediation Services Corp.

OHM Project No. 17780

Drawn By:	Checked By:	Approved By:
D. Leech	M. Jurusz	
Date:	Scale:	Drawing No.
4/4/96	NONE	17780-A1

FIGURE 4.1

PROCESS FLOW DIAGRAM

WASTEWATER TREATMENT SYSTEM

PREPARED FOR

NAVAL STATION, ROOSEVELT ROADS
CEIBA, PUERTO RICO