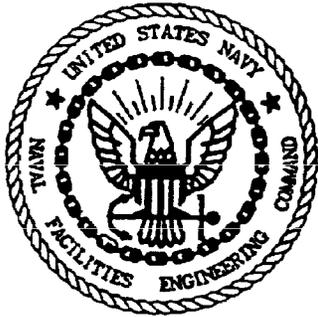


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CNC CHARLESTON
5090.3a

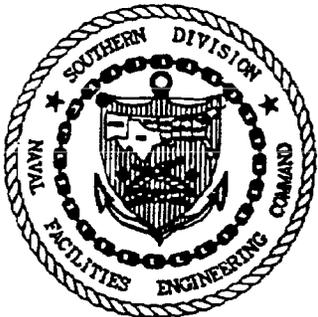
COMPLETION REPORT INTERIM/STABILIZATION MEASURE FOR SOLID WASTE
MANAGEMENT UNIT 44 (SWMU44) COAL STORAGE YARD WITH TRANSMITTAL CNC
CHARLESTON SC
2/7/1997
NAVFAC SOUTHERN



COMPLETION REPORT

**INTERIM/STABILIZATION MEASURE FOR
SWMU 44 (COAL STORAGE YARD)
NAVAL BASE CHARLESTON
CHARLESTON, SC**

SITE: SWMU 44 (Coal Storage Yard)



Prepared for:

**DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORTH CHARLESTON S.C.**



Prepared by:

**Supervisor of Shipbuilding, Conversion and Repair,
USN, (SUPSHIP) Portsmouth Va.,
Environmental Detachment Charleston S.C.
1899 North Hobson Ave.
North Charleston, SC 29405-2106**

February 10, 1997



DEPARTMENT OF THE NAVY

SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
P.O. BOX 190010
2155 EAGLE DRIVE
NORTH CHARLESTON, S.C. 29419-9010

5090
Code 1876
7 Feb 1997

Mr. G. Randall Thompson, Director
Division of Hazardous and Infectious Waste Management
Bureau of Solid And Hazardous Waste Management
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia SC 29201

Re: INTERIM MEASURE REPORT FOR SOLID WASTE MANAGEMENT UNIT 44

Dear Mr. Thompson:

The enclosed interim measure report is submitted to fulfill the requirement of Permit Condition IV.D.6 for Permit Number SCO 170 022 560.

If the Department should have any questions, please contact me at (803) 820-7481.

Sincerely,

A handwritten signature in black ink, appearing to read "Brian K. Stockmaster", written over a horizontal line.

BRIAN K. STOCKMASTER
Remedial Project Manager
Environmental Division

Encl:

(1) SWMU 44 Report

Copy to:

SCDHEC (2) (Mr. Tapia, Mr. Bergstrand)

USEPA (1) (Mr. Bassett)

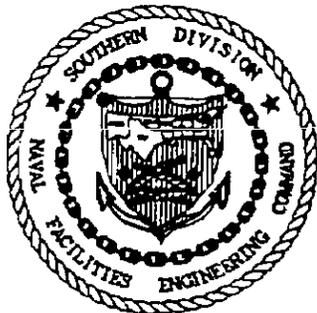
CSO Naval Base Charleston (LCDR Rose)



COMPLETION REPORT

INTERIM/STABLIZATION MEASURE FOR
SWMU 44 (COAL STORAGE YARD)
NAVAL BASE CHARLESTON
CHARLESTON, SC

SITE: SWMU 44 (Coal Storage Yard)



Prepared for:

DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORTH CHARLESTON S.C.



Prepared by:

Supervisor of Shipbuilding, Conversion and Repair,
USN, (SUPSHIP) Portsmouth Va.,
Environmental Detachment Charleston S.C.
1899 North Hobson Ave.
North Charleston, SC 29405-2106

February 10, 1997

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ACRONYM LIST

AOC	Area of Concern
BEQ	Benzo(a)pyrene Equivalents
BTU	British Thermal Unit
CMS	Corrective Measure Study
CNCRA	Charleston Naval Complex Redevelopment Authority
COPC	Constituents of Potential Concern
DERP	Defense Environmental Restoration Program
DON	Department of the Navy
DQO	Data Quality Objective
EOX	Extractable Organic Halides
EPA	U.S. Environmental Protection Agency
IM	Interim Measure
IR	Installation Restoration
RBC	Risk Based Concentration
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
SARA	Superfund Amendments and Restoration Act
SCDHEC	South Carolina Department of Health and Environmental Control
SOUTHDIV	Southern Division Naval Facilities Engineering Command
SPORTENVDETCHASN	Supervisor of Shipbuilding, Conversion and Repair, Portsmouth Va., Environmental Detachment Charleston
SWMU	Solid Waste Management Unit
TPH	Total Petroleum Hydrocarbons

1. INTRODUCTION

1.1 INSTALLATION RESTORATION PROGRAM. The purpose of the Department of the Navy (DON) Installation Restoration (IR) Program is to identify, assess, characterize, and cleanup or control contamination from past hazardous waste disposal operations and hazardous material spills at Navy and Marine Corps activities. The Defense Environmental Restoration Program (DERP) is codified in the Superfund Amendments and Reauthorization Act (SARA) Section 211 (10 USC 2701). The IR Program is a component of DERP.

1.1.1 Naval Base Charleston IR Program. At Naval Base Charleston, a Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) was prepared which divided the Naval Base into zones and identified Solid Waste Management Units (SWMU) and Areas of Concern (AOC) within each zone. The RFA evaluated each SWMU and AOC and determined which sites required further investigation. Based on the RFA, a RCRA Facility Investigation (RFI) work plan has been or is being prepared for each zone containing SWMUs and AOCs requiring further investigation. On completion of the RFI for each zone, a RFI report will be prepared for that zone. The RFI reports will identify SWMUs and AOCs containing hazardous wastes requiring remediation. Eventually, Corrective Measures Studies (CMS) will be prepared to determine the best means of remediating each site.

1.2 INTERIM MEASURES. Interim Measures (IM) performed as part of the IR Program are intended to eliminate sources of environmental contamination or limit the spread of environmental contamination prior to the completion of RFI CMSs.

1.3 SOLID WASTE MANAGEMENT UNIT 44. SWMU 44 is the site of the former Naval Base Charleston coal storage yard which consists of approximately 4.14 acres located in Zone C of the RFI. The site is bordered on two sides by drainage ditches which run into Noisette Creek, a tidal creek that flows back into wetland areas and into the Cooper River (see Figure A-1). Coal was received from railroad cars and stored on site prior to transfer to the Power House

(Building 32). The rail cars were pushed up an inclined trestle and the coal dumped on two concrete pads at the center of the site. The coal was eventually moved off the concrete pads onto the soil for storage until ready for use at the Power House. Over the years coal became embedded in the soil at varying depths.

1.4 SOLID WASTE MANAGEMENT UNIT 44 INTERIM MEASURE. During the interval between the RFI and the completion of the CMS, it was decided by Southern Division Naval Facilities Engineering Command (SOUTHDIV) that an IM would be performed by Supervisor of Shipbuilding, Conversion and Repair, Portsmouth Va., Environmental Detachment Charleston (SPORTENVDETCHASN). The objective of this IM was to remove the bulk coal which acted as a source of contamination to soil and surface water runoff. Groundwater remediation was not an objective of this IM. This IM was consistent with the ultimate cleanup of SWMU 44 and was not intended to circumvent the public participation process inherent within environmental cleanup under RCRA authority.

2. INTERIM MEASURE EXECUTION

2.1 ACTIONS REQUIRED BY INTERIM MEASURE WORK PLAN. Coal and coal waste was removed to eliminate the source of soil contamination and acidic surface water runoff. Coal and coal waste was removed from an approximate 4.14 acre area except as noted below.

2.1.1 Railroad Track. SPORTENVDETHASN requested, per memorandum Serial:CEERD/039 dated 5/9/96, permission from Charleston Naval Complex Redevelopment Authority (CNCRA) to remove a section of railroad tracks parallel to the inclined trestle to the east at SWMU 44 (see Figure A-1). Per Charleston Naval Weapons Station Public Works Department Trackage Inspection Report, this section of track was not certified and would require extensive repair prior to recertification. Removal of coal from this section of tracks would require hand shoveling and pick axes. This removal method would render this section of track unusable.

Technical guidance was provided on the track removal from SOUTHDIV (memo #5090, Code 1876, dated 31 May 1996). SPORTENVDETHASN was directed to remove only the easily accessible coal in and around the track in question. Complete removal of the coal would be addressed as part of any future corrective measure action if necessary. Based on this, the coal between the tracks was not removed (see photograph page C-6).

2.2 PROBLEMS ENCOUNTERED. No problems were encountered during execution of Interim/Stabilization Measure for SWMU 44 (Coal Storage Yard).

2.3 PLAN MODIFICATIONS AND JUSTIFICATION. There were no modifications to the IM work plan.

3. INTERIM MEASURE OUTCOME

3.1 SITE CONDITIONS FOLLOWING COMPLETION OF WORK. On 9 September 1996, after work completed, SPORTENVDETHASN had removed 13,246.39 tons of coal and coal/dirt mixture from SWMU 44. The coal had a variable range of thickness from several inches to 5 feet throughout the approximate 4.14 acre site. This variance created one low area on the north side of the site and one low area on the south side of the site (see Figure A-1 and photographs pages C-3 and C-6). These low areas allow for a ponding effect during times of heavy precipitation. Coal and coal/dirt mixture were removed in and around all railroad tracks except as noted in section 2.1.1 of this report. Drainage ditches were scraped for residual coal runoff and reshaped for water collection and drainage. All open areas of SWMU 44 were raked and groomed to help prevent erosion. Photographs of SWMU 44 are included as Appendix C.

3.2 AREAS REQUIRING FURTHER ACTION. No further action per this IM remains at SWMU 44.

4. SAMPLING

4.1 SAMPLING EVOLUTIONS AND RESULTS. Disposal of 6,443 tons of usable coal was based on Omni Environmental (vendor for the usable coal) conducting an analysis to determine the British Thermal Unit (BTU) value of the coal. The BTU content was determined to be 12,628. This value made the coal a recoverable product. Sample results were screening data only for vendors information and are included in Appendix B.

Disposal of 3,300 tons of unusable coal (which was approximately 50% coal/50% dirt) was based on a sample taken 22 March 1996 (reported 27 March 1996) that was a composite sample taken from different locations around SWMU 44. This sample was analyzed for extractable organic halides (EOX), total petroleum hydrocarbons (TPH), and 8 RCRA metals plus nickel, antimony, and beryllium. Results are included in Appendix B.

Disposal of 3,503.39 tons of unusable coal (which was approximately 5% coal/95% dirt) was based on samples taken 14 June 1996 (reported 21 June 1996). Grab samples were taken at four different locations around SWMU 44. These samples were analyzed for EOX and the following metals based on the COPCs identified in the RFI Report: aluminum, arsenic, beryllium, chromium, manganese, and thallium. Results are included in Appendix B.

5. WASTE GENERATION

5.1 HAZARDOUS/POTENTIALLY HAZARDOUS WASTE. No hazardous/potentially hazardous waste was generated during performance of Interim/Stabilization Measure for SWMU 44 (Coal Storage Yard).

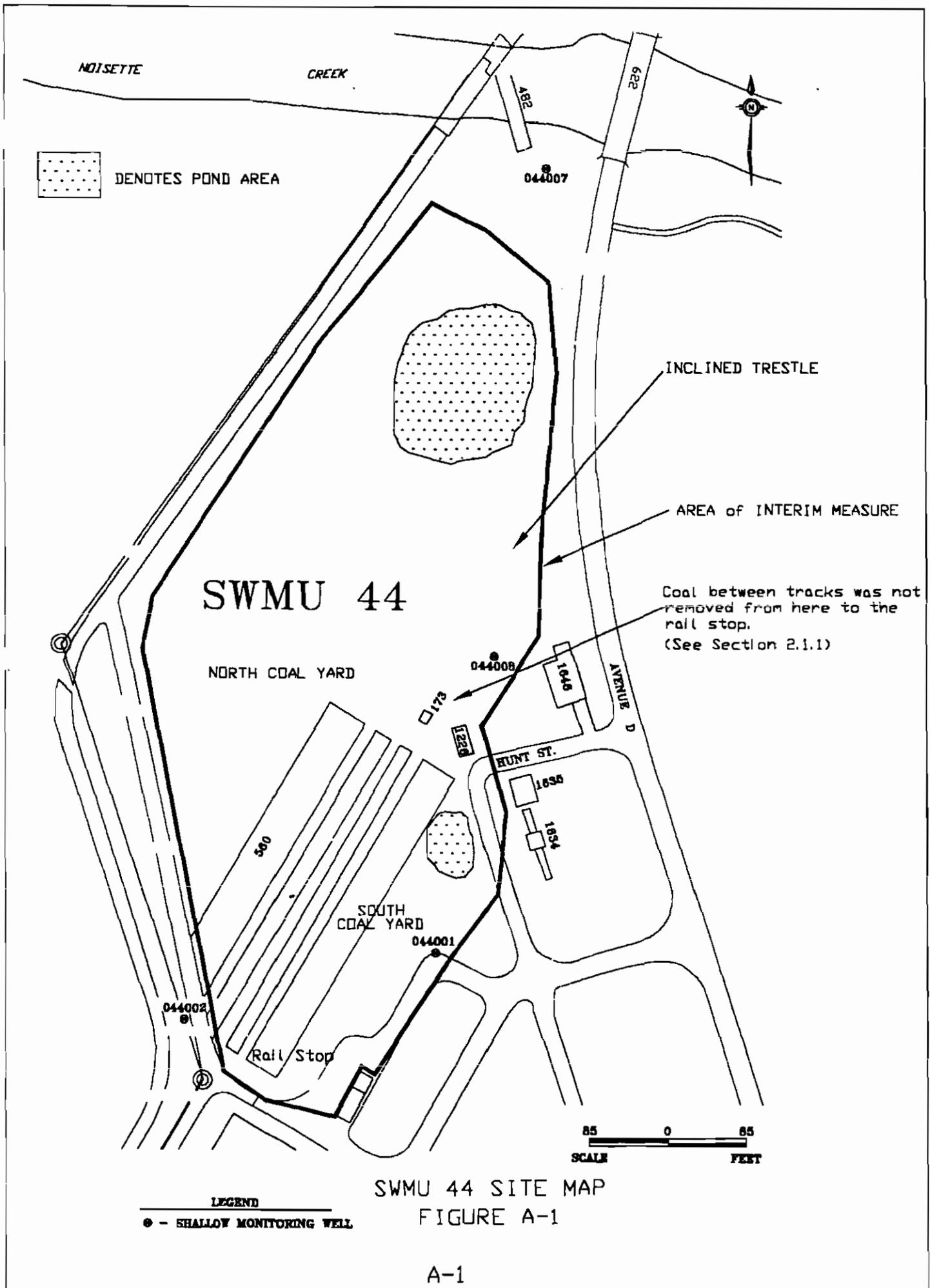
5.2 NON-HAZARDOUS WASTE. Disposed of 3,300 tons of coal/dirt mixture (which was approximately 50% coal/50% dirt) to Southeastern Soil Recovery Incorporated, Summerville, SC. This coal/dirt mixture was used as a product for the manufacture of asphalt. South Carolina Department of Health and Environmental Control (SCDHEC) approval for this use and DD Form 1155 (Order For Supplies Or Services) are included in Appendix D for documentation of disposal.

Disposed of 3,503.39 tons of coal/dirt mixture (which was approximately 5% coal/95% dirt) to Charleston County Landfill at Bee's Ferry Road in Charleston, SC to be used as a daily cover. SCDHEC approval for this use and DD Form 1155 (Order For Supplies Or Services) are included in Appendix D for documentation of disposal.

5.3 REUSABLE PRODUCT. Disposed of 6,443 tons of coal, through Omni Environmental, to Giant Cement Company, Harleyville, SC. This coal was taken based on the BTU value sample results outlined in Section 4.1.

APPENDIX A

SITE MAP



SWMU 44

NORTH COAL YARD

SOUTH COAL YARD

Rail Stop

INCLINED TRESTLE

AREA of INTERIM MEASURE

Coal between tracks was not removed from here to the rail stop.
(See Section 2.1.1)

85 0 85
SCALE FEET

LEGEND

● - SHALLOW MONITORING WELL

SWMU 44 SITE MAP
FIGURE A-1

APPENDIX B

SAMPLE DATA

Omni Environmental Coal Sample

Screening Data Only

OMNI ENVIRONMENTAL LABORATORY

Where Problems Become Solutions

755 Industrial Rd.
Sumter, SC 29151
(803) 773-1400

Client: Charleston Naval Yard N. Charleston, S.C.	Client Sample ID # A = open field B = under RR tracks	OEL Sample Name: 21828-A & B
Contact: Gary Cappelletti	Description: coal	

Laboratory Analysis Results

Sample Screening Data***

TEST PARAMETER	RESULT	UNITS	**PQL	SPECIFICATIONS	FAIL*	DATE
U (composite of A & B)	12.628	BTU	2,000 - 20,000	N/A	N/A	03/05/96
Sulfur - sample A	0.78	%	0-100	N/A	N/A	03/12/96
Sulfur - sample B	0.76	%	0-100	N/A	N/A	03/12/96
Ash - sample A	9.94	%	0-100	N/A	N/A	03/12/96
Ash - sample B	8.65	%	0-100	N/A	N/A	03/12/96

N/A - not applicable

* - Results outside specifications fail

** - Practical Quantitation Limits

***The above analytical results are *screening data* generated using uncertified methodology, intended to augment generator knowledge; Data are not sufficient independently to characterize the sample.

Results Reviewed AG/SEL/03-13-96
(Initials/Date)

“Unusable” Coal Sample

Taken 3/22/96 (reported 3/27/96)



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CERTIFICATE OF ANALYSIS

Client: Navy Public Works Center-Char. Zone
 Charleston Naval Shipyard
 Code 106.24, Bldg. 234
 Charleston, South Carolina 29408-2020

Contact: Mr. Max Claxel

Project Description: Code 106

or NPWC00195

Report Date: March 27, 1996

Page 1 of 9

Sample ID : TCG0490-6-1
 Lab ID : 9603394-01
 Matrix : Soil
 Date Collected : 03/22/96
 Date Received : 03/22/96
 Priority : Rush
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	U	-1.01	0.390	2.50	mg/kg	1.0	ISS	03/25/96	1409	82227	1
Arsenic		16.3	2.11	15.0	mg/kg	1.0					
Barium		6.93	0.110	2.50	mg/kg	1.0					
Beryllium	J	0.0765	0.0150	2.50	mg/kg	1.0					
Cadmium	J	0.175	0.165	2.50	mg/kg	1.0					
Chromium		7.33	0.210	2.50	mg/kg	1.0					
Nickel		3.24	0.395	2.50	mg/kg	1.0					
Lead	J	4.29	1.82	5.00	mg/kg	1.0					
Antimony	U	-4.45	2.00	5.00	mg/kg	1.0					
Selenium	J	4.41	4.21	15.0	mg/kg	1.0					
Mercury	J	0.0921	0.00226	0.200	mg/kg	1.0	RMT	03/25/96	1506	82259	N
General Chemistry											
Total Res. Petro. Hydrocarbons	U	6.65	6.76	10.0	mg/kg	1.0	EDW	03/26/96	0830	82349	2
Extractable Organic Halides		31.2	4.84	15.0	mg/kg	1.0	ST	03/26/96	1253	82357	3

The following prep procedures were performed:

ICP DVW 03/22/96 1550 82227 4
 Mercury RMT 03/22/96 1600 82259 5

M # Method	Method-Description
M 1	EPA 6010A
M 2	EPA 418.1 Modified
M 3	GEL
M 4	EPA 3060
M 5	EPA 7471





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CERTIFICATE OF ANALYSIS

Client: Navy Public Works Center-Chas. Zoon
Charleston Naval Shipyard
Code 106.24, Bldg. 234
Charleston, South Carolina 29408-2020

Contact: Mr. Max Cissel

Project Description: Code 106

or: NFWC00195

Report Date: March 27, 1996

Page 2 of 3

Sample ID : TCC0490-6-1

M = Method

Method-Description

Notes:

The qualifications in this report are defined as follows:

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

GEL Laboratory Certifications

EPI Laboratory Certifications

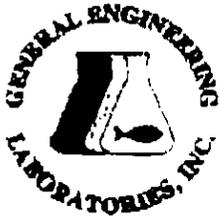
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CA - 2089
DE - 3CD12
ME - 3CD12
NC - 233
RI - 135
TN - 02934
VA - 00151
WI - 999887790

AZ - AZ0514
CT - PH-0169
FL - BE7156/87294
MS - 10120
NY - 11501
SC - 10120
UT - B-251
WA - C223

AL - 41050
CA - I-1023/2056
FL - BE7472/87458
NY - 11502
SC - 10582
UT - B-227
WA - C225
PA - 68-485

AZ - AZ0514
CT - PH-0175
MS - 29417
RI - 138
TN - 02934
VA - 00111
NJ - 79002





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CERTIFICATE OF ANALYSIS

Client: Navy Public Works Center-Char. Zone
Charleston Naval Shipyard
Code 106.24, Bldg. 234
Charleston, South Carolina 29408-2020

Contact: Mr. Matt Cassel

Project Description: Code 106

cc: NPWC00193

Report Date: March 27, 1996

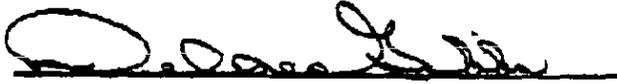
Page 3 of 3

Sample ID : TCG0490-6-1

GEL Laboratory Certifications

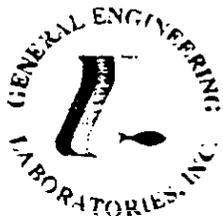
EPI Laboratory Certifications

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Xaron Blakemey at (803) 769-7386.


Analytical Report Specialist

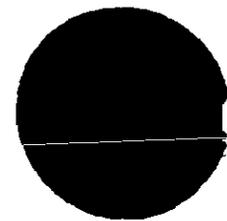
Dirt/Coal Mixture Samples

Taken 6/14/96 (reported 6/21/96)



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CERTIFICATE OF ANALYSIS

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 21, 1996

Page 1 of 3

Sample ID : SPORT0077-1
 Lab ID : 9606299-01
 Matrix : Soil
 Date Collected : 06/14/96
 Date Received : 06/17/96
 Priority : Routine
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
<i>Polynuclear Aromatic Hydrocarbons - 16 items</i>											
Acenaphthene	U	0.00	666	1330	ug/kg	4.0	JCB	06/19/96	2034	86106	1
Acenaphthylene	U	0.00	666	1330	ug/kg	4.0					
Anthracene	U	0.00	666	1330	ug/kg	4.0					
Benzo(a)anthracene	U	0.00	666	1330	ug/kg	4.0					
Benzo(a)pyrene	U	0.00	666	1330	ug/kg	4.0					
Benzo(b)fluoranthene	U	0.00	666	1330	ug/kg	4.0					
Benzo(ghi)perylene	U	0.00	666	1330	ug/kg	4.0					
Benzo(k)fluoranthene	U	0.00	666	1330	ug/kg	4.0					
Chrysene	J	786	666	1330	ug/kg	4.0					
Dibenzo(a,h)anthracene	U	0.00	666	1330	ug/kg	4.0					
Fluoranthene	J	1070	666	1330	ug/kg	4.0					
Fluorene	U	0.00	666	1330	ug/kg	4.0					
Indeno(1,2,3-c,d)pyrene	U	0.00	666	1330	ug/kg	4.0					
Naphthalene	U	0.00	666	1330	ug/kg	4.0					
Phenanthrene		1440	666	1330	ug/kg	4.0					
Pyrene	J	972	666	1330	ug/kg	4.0					
Metals Analysis											
Aluminum		5220000	1170	4900	ug/kg	2.0	WCC	06/19/96	1532	86101	2
Arsenic		37000	182	980	ug/kg	2.0					
Beryllium		1090	1.12	490	ug/kg	2.0					
Chromium		16000	58.4	980	ug/kg	2.0					
Manganese		109000	9.43	980	ug/kg	2.0					
Thallium		1120	203	980	ug/kg	2.0					

5.210 ppm
 1.07 ppm

The following prep procedures were performed:

GC/MS Base/Neutral Compounds

TNF 06/18/96 1400 86106 3





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Client: Supervisor of Ship Building & Conversion
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 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 21, 1996

Page 2 of 3

Sample ID : SPORT0077-1

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	
TRACE								DVW	06/18/96	1555	86101	4

Comments:

A dilution was required for Extractables Organics and Metals due to matrix interference. As a result, the detection limits are elevated.

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	84.6	(30.0 - 115.)
Nitrobenzene-d5	M610	53.5	(23.0 - 120.)
p-Terphenyl-d14	M610	95.0	(37.3 - 128.)

M = Method	Method-Description
M 1	EPA 8270
M 2	EPA 6010A
M 3	EPA 3550
M 4	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

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U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicate that a quality control analyte recovery is outside of specified acceptance criteria.

GEL Laboratory Certifications

EPI Laboratory Certifications



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Contact: Mr. Bill Hiers

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cc: NPWC00196

Report Date: June 21, 1996

Page 3 of 3

Sample ID : SPORT0077-1

GEL Laboratory Certifications

AL - 41040
CA - 2089
DE - SC012
ME - SC012
NC - 233
RI - 135
TN - 02934
VA - 00151
WI - 999887790

AZ - AZ0514
CT - PH-0169
FL - E87156/87294
MS - 10120
NY - 11501
SC - 10120
UT - E-251
WA - C223

EPI Laboratory Certifications

AL - 41050
CA - I-1023/2056
FL - E87472/87458
NY - 11502
SC - 10582
UT - E-227
WA - C225
PA - 68-485

AZ - AZ0514
CT - PH-0175
MS - 29417
RI - 138
TN - 02934
VA - 00111
NJ - 79002
WV - 235

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Analytical Report Specialist



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CERTIFICATE OF ANALYSIS

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 21, 1996

Page 1 of 3

Sample ID : SPORT0077-2
 Lab ID : 9606299-02
 Matrix : Soil
 Date Collected : 06/14/96
 Date Received : 06/17/96
 Priority : Routine
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
<i>Polynuclear Aromatic Hydrocarbons - 16 items</i>											
Acenaphthene	U	0.00	666	1330	ug/kg	4.0	JCB	06/19/96	1647	86106	1
Acenaphthylene	U	0.00	666	1330	ug/kg	4.0					
Anthracene	U	0.00	666	1330	ug/kg	4.0					
Benzo(a)anthracene	U	0.00	666	1330	ug/kg	4.0					
Benzo(a)pyrene	U	0.00	666	1330	ug/kg	4.0					
Benzo(b)fluoranthene	U	0.00	666	1330	ug/kg	4.0					
Benzo(ghi)perylene	U	0.00	666	1330	ug/kg	4.0					
Benzo(k)fluoranthene	U	0.00	666	1330	ug/kg	4.0					
Chrysene	U	0.00	666	1330	ug/kg	4.0					
Dibenz(a,h)anthracene	U	0.00	666	1330	ug/kg	4.0					
Fluoranthene	U	0.00	666	1330	ug/kg	4.0					
Fluorene	U	0.00	666	1330	ug/kg	4.0					
Indeno(1,2,3-c,d)pyrene	U	0.00	666	1330	ug/kg	4.0					
Naphthalene	U	0.00	666	1330	ug/kg	4.0					
Phenanthrene	U	0.00	666	1330	ug/kg	4.0					
Pyrene	U	0.00	666	1330	ug/kg	4.0					
Metals Analysis											
Aluminum		282000	1190	5000	ug/kg	2.0	NRM	06/20/96	2152	86101	2
Arsenic		33000	186	1000	ug/kg	2.0					
Beryllium	J	449	1.14	500	ug/kg	2.0					
Chromium		6660	59.6	1000	ug/kg	2.0					
Manganese		58000	9.62	1000	ug/kg	2.0					
Thallium	J	702	207	1000	ug/kg	2.0					

The following prep procedures were performed:

GC - 3 Base/Neutral Compounds

TNF 06/18/96 1400 86106 3





GENERAL ENGINEERING LABORATORIES

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CERTIFICATE OF ANALYSIS

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 21, 1996

Page 2 of 3

Sample ID : SPORT0077-2

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
TRACE							DVW	06/18/96	1555	86101	4

Comments:

A dilution was required for Extractables Organics and Metals due to matrix interference. As a result, the detection limits are elevated.

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	71.8	(30.0 - 115.)
Nitrobenzene-d5	M610	45.5	(23.0 - 120.)
p-Terphenyl-d14	M610	86.2	(37.3 - 128.)

M = Method	Method-Description
M 1	EPA 8270
M 2	EPA 6010A
M 3	EPA 3550
M 4	EPA 3050

Notes:

The qualifiers in this report are defined as follows:
 J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
 U indicates that the analyte was not detected at a concentration greater than the detection limit.
 * indicate that a quality control analyte recovery is outside of specified acceptance criteria.

GEL Laboratory Certifications

EPI Laboratory Certifications



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SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiera

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 21, 1996

Page 3 of 3

Sample ID : SPORT0077-2

GEL Laboratory Certifications

AL - 41040
CA - 2089
DE - SC012
ME - SC012
NC - 233
RI - 135
TN - 02934
VA - 00151
WI - 999887790

AZ - AZ0514
CT - PH-0169
FL - E87156/87294
MS - 10120
NY - 11501
SC - 10120
UT - E-251
WA - C223

EPI Laboratory Certifications

AL - 41050
CA - I-1023/2056
FL - E87472/87458
NY - 11502
SC - 10582
UT - E-227
WA - C225
PA - 68-485

AZ - AZ0514
CT - PH-0175
MS - 29417
RI - 138
TN - 02934
VA - 00111
NJ - 79002
WV - 235

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Analytical Report Specialist



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 North Charleston, South Carolina 29405-2106

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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 21, 1996

Page 1 of 3

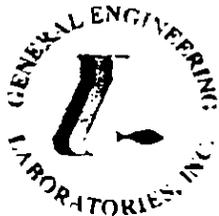
Sample ID : SPORT0077-3
 Lab ID : 9606299-03
 Matrix : Soil
 Date Collected : 06/14/96
 Date Received : 06/17/96
 Priority : Routine
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
<i>Polynuclear Aromatic Hydrocarbons - 16 items</i>											
Acenaphthene	U	0.00	660	1320	ug/kg	4.0	JCB	06/19/96	1719	86106	1
Acenaphthylene	U	0.00	660	1320	ug/kg	4.0					
Anthracene	U	0.00	660	1320	ug/kg	4.0					
Benzo(a)anthracene	J	805	660	1320	ug/kg	4.0					
Benzo(a)pyrene	U	0.00	660	1320	ug/kg	4.0					
Benzo(b)fluoranthene	J	686	660	1320	ug/kg	4.0					
Benzo(ghi)perylene	U	0.00	660	1320	ug/kg	4.0					
Benzo(k)fluoranthene	U	0.00	660	1320	ug/kg	4.0					
Chrysene	U	0.00	660	1320	ug/kg	4.0					
Dibenzo(a,h)anthracene	U	0.00	660	1320	ug/kg	4.0					
Fluoranthene	J	1190	660	1320	ug/kg	4.0					
Fluorene	U	0.00	660	1320	ug/kg	4.0					
Indeno(1,2,3-c,d)pyrene	U	0.00	660	1320	ug/kg	4.0					
Naphthalene	U	660	660	1320	ug/kg	4.0					
Phenanthrene		1640	660	1320	ug/kg	4.0					
Pyrene	J	1070	660	1320	ug/kg	4.0					
Metals Analysis											
Aluminum		5060000	1180	4950	ug/kg	2.0	WCC	06/19/96	1541	86101	2
Arsenic		11400	184	990	ug/kg	2.0					
Beryllium		1160	1.13	495	ug/kg	2.0					
Chromium		18100	59.0	990	ug/kg	2.0					
Manganese		130000	9.52	990	ug/kg	2.0					
Thallium	J	657	205	990	ug/kg	2.0					

• following prep procedures were performed:
 GC/MS Base/Neutral Compounds

TNF 06/18/96 1400 86106 3





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 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 21, 1996

Page 2 of 3

Sample ID : SPORT0077-3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
TRACE							DVW	06/18/96	1555	86101	4

Comments:

A dilution was required for Extractables Organics and Metals due to matrix interference. As a result, the detection limits are elevated.

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	83.1	(30.0 - 115.)
Nitrobenzene-d5	M610	45.6	(23.0 - 120.)
p-Terphenyl-d14	M610	88.7	(37.3 - 128.)

M = Method	Method-Description
M 1	EPA 8270
M 2	EPA 6010A
M 3	EPA 3550
M 4	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

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U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicate that a quality control analyte recovery is outside of specified acceptance criteria.

GEL Laboratory Certifications

EPI Laboratory Certifications



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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 21, 1996

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Sample ID : SPORT0077-3

GEL Laboratory Certifications

AL - 41040
CA - 2089
DE - SC012
ME - SC012
NC - 233
RI - 135
TN - 02934
VA - 00151
WI - 999887790

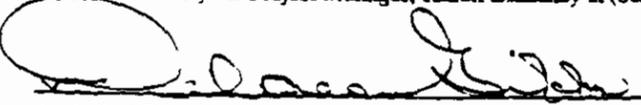
AZ - AZ0514
CT - PH-0169
FL - E87156/87294
MS - 10120
NY - 11501
SC - 10120
UT - E-251
WA - C223

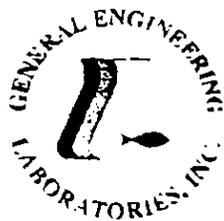
EPI Laboratory Certifications

AL - 41050
CA - I-1023/2056
FL - E87472/87458
NY - 11502
SC - 10582
UT - E-227
WA - C225
PA - 68-485

AZ - AZ0514
CT - PH-0175
MS - 29417
RI - 138
TN - 02934
VA - 00111
NJ - 79002
WV - 235

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.


Analytical Report Specialist



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 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 21, 1996

Page 1 of 3

Sample ID : SPORT0077-4
 Lab ID : 9606299-04
 Matrix : Soil
 Date Collected : 06/14/96
 Date Received : 06/17/96
 Priority : Routine
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
<i>Polynuclear Aromatic Hydrocarbons - 16 items</i>											
Acenaphthene	U	0.00	662	1320	ug/kg	4.0	JCB	06/19/96	1752	86106	1
Acenaphthylene	U	0.00	662	1320	ug/kg	4.0					
Anthracene	U	0.00	662	1320	ug/kg	4.0					
Benzo(a)anthracene	U	0.00	662	1320	ug/kg	4.0					
Benzo(a)pyrene	U	0.00	662	1320	ug/kg	4.0					
Benzo(b)fluoranthene	U	0.00	662	1320	ug/kg	4.0					
Benzo(ghi)perylene	U	0.00	662	1320	ug/kg	4.0					
Benzo(k)fluoranthene	U	0.00	662	1320	ug/kg	4.0					
Chrysene	U	0.00	662	1320	ug/kg	4.0					
Dibenzo(a,h)anthracene	U	0.00	662	1320	ug/kg	4.0					
Fluoranthene	U	0.00	662	1320	ug/kg	4.0					
Fluorene	U	0.00	662	1320	ug/kg	4.0					
Indeno(1,2,3-c,d)pyrene	U	0.00	662	1320	ug/kg	4.0					
Naphthalene	U	0.00	662	1320	ug/kg	4.0					
Phenanthrene	U	0.00	662	1320	ug/kg	4.0					
Pyrene	U	0.00	662	1320	ug/kg	4.0					
Metals Analysis											
Aluminum		10600000	583	2500	ug/kg	1.0	WCC	06/19/96	1546	86101	2
Arsenic		8320	91.1	500	ug/kg	1.0					
Beryllium		570	0.559	250	ug/kg	1.0					
Chromium		24400	29.2	500	ug/kg	1.0					
Manganese		316000	4.71	500	ug/kg	1.0					
Thallium		1650	101	500	ug/kg	1.0					

The following prep procedures were performed:
 AMS Base/Neutral Compounds

TNF 06/18/96 1400 86106 3





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SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 21, 1996

Page 2 of 3

Sample ID : SPORT0077-4

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	
TRACE								DVW	06/18/96	1555	86101	4

Comments:

A dilution was required for Extractables Organics due to matrix interference.
As a result, the detection limits are elevated.

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	81.5	(30.0 - 115.)
Nitrobenzene-d5	M610	54.3	(23.0 - 120.)
p-Terphenyl-d14	M610	82.3	(37.3 - 128.)

M = Method	Method-Description
M 1	EPA 8270
M 2	EPA 6010A
M 3	EPA 3550
M 4	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicate that a quality control analyte recovery is outside of specified acceptance criteria.

GEL Laboratory Certifications

EPI Laboratory Certifications





GENERAL ENGINEERING LABORATORIES

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CERTIFICATE OF ANALYSIS

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 21, 1996

Page 3 of 3

Sample ID : SPORT0077-4

GEL Laboratory Certifications

EPI Laboratory Certifications

AL - 41040
 CA - 2089
 DE - SC012
 ME - SC012
 NC - 233
 RI - 135
 TN - 02934
 VA - 00151
 WI - 999887790

AZ - AZ0514
 CT - PH-0169
 FL - E87156/87294
 MS - 10120
 NY - 11501
 SC - 10120
 UT - E-251
 WA - C223

AL - 41050
 CA - I-1023/2056
 FL - E87472/87458
 NY - 11502
 SC - 10582
 UT - E-227
 WA - C225
 PA - 68-485

AZ - AZ0514
 CT - PH-0175
 MS - 29417
 RI - 138
 TN - 02934
 VA - 00111
 NT - 79002
 WV - 235

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Analytical Report Specialist

APPENDIX C

PHOTOGRAPHS



North Yard facing north prior to starting interim measure



North Yard facing northwest after completion of interim measure



North Yard facing west. Reusable coal being loaded into truck for disposal.



North Yard facing west after completion of interim measure



North Yard facing southwest loading coal for reuse



North Yard facing north after completion of interim measure (shows ponding)



North Yard facing south at ditch prior to scraping



North Yard facing north at ditch after completion of interim measure



South Yard facing south prior to starting interim measure



South Yard facing south after completion of interim measure



South Yard facing south prior to starting interim measure



South Yard facing south after completion of interim measure (shows coal remaining in tracks sec. 2.1.1)



Inclined trestle facing north prior to starting interim measure



Inclined trestle facing north prior to starting interim measure



Inclined trestle facing southeast after completion of interim measure



Inclined trestle facing southeast after completion of interim measure

APPENDIX D

SCDHEC

AUTHORIZATION

LETTERS



Commissioner: Douglas E. Bryant

Board: John H. Burns, Chairman
William M. Hull, Jr., MD, Vice Chairman
Roger Leake, Jr., Secretary

Richard E. Jabbour, DDS
Cyndi C. Mosteller
Brian K. Smith
Rodney L. Grandy

Promoting Health, Protecting the Environment

April 10, 1996
Expiration Date: July 10, 1996



Southeastern Soil Recovery, Inc.
Attention: Mr. Robert K. Williams
P.O. Box 70253
Charleston, SC 29415

Subject: SSR Project #96065. Consultant - General Engineering Labs, Attn: Karen Blakeney, PO Box 30712, Charleston, SC 29417. Generator - Charleston Environmental Engineering and Remediation Detachment, Attn: John Lawrence, 1899 North Hobson Avenue, N. Charleston, SC 29405-2106.

Dear Mr. Williams:

This office hereby grants approval for your company to have non-hazardous waste transported to Southeastern Soil Recovery in Dorchester County. Once the contaminated soils have been treated and recovered as clean soils, they will be utilized in hot asphalt mix. The contaminated soils are described by SSR as approximately 2500 tons of soil contaminated with virgin coal hydrocarbon from a coal storage at the generator's facility. The generator or the consultants have declared this waste non-hazardous per the requirements of R.61-79.262.11 of the Bureau of Solid and Hazardous Waste Management regulations.

The following restrictions apply to the Southeastern Soil Recovery facility:

1. Prior approval must be obtained from the appropriate facility officials.
2. The District Solid Waste Consultant must be notified of your intent to dispose.
3. Precautions must be taken to prevent spillage or leakage during transport.
4. Weekend or holiday disposals are prohibited without prior notification of the appropriate district representative.
5. The waste stream must be compatible with the facility and not adversely affect the safe operation of the unit.

Mr. Robert K. Willms
April 10, 1996
Page 2

6. All State and Federal Air Quality Regulations which are applicable to the facility and its operations must be strictly complied with.
7. This approval will be for *one time only*. The company must notify this office in writing when a new approval letter is to be issued.

If I can be of any further assistance, please contact this office.

Sincerely,



Howard Moseley
Division of Waste Assessment
and Emergency Response
Bureau of Solid and Hazardous
Waste Management

BHM/tch

cc: Larry Bunn, Air Quality
Rick Richter, Trident EQC
John Tapia, Hazardous Waste Permitting

Rick #650

ORDER FOR SUPPLIES OR SERVICES

Form Approved
OMB No. 0704-0187
Expires Aug 31, 1992

Page 1 of 2

(Contractor must submit four copies of invoice)

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0187), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send your completed form to the procurement official identified in item 6.

1. CONTRACT/PURCH ORDER NO. N62467-96-M-4446	2. DELIVERY ORDER NO.	3. DATE OF ORDER 4 JUNE 1996	4. REQUISITION/PURCH REQUEST NO.	5. CERTIFIED FOR NATIONAL DEFENSE UNDER DMS REG 1 DO-C2
---	-----------------------	---------------------------------	----------------------------------	--

6. ISSUED BY OFFICER IN CHARGE OF CONSTRUCTION NAVAL WEAPONS STATION CHARLESTON 2316 RED BANK ROAD SUITE 100 GOOSE CREEK SC 29445-8601	CODE	7. ADMINISTERED BY (IF OTHER THAN 6) SAME AS BLOCK 6 B. POWELL, CODE 542.1, (803) 764-7400	CODE	8. DELIVERY FOB <input type="checkbox"/> DEST <input type="checkbox"/> OTHER (See Schedule if other)
--	------	--	------	---

9. CONTRACTOR SOUTHEASTERN SOIL RECOVERY, INC. P. O. BOX 70253 CHARLESTON SC 29415	CODE	FACILITY CODE CIS #00014508 CEC #78381886H	10. DELIVER TO FOB POINT BY (DATE) 19 JULY 1996	11. MARK IF BUSINESS IS XX SMALL SMALL DISA VANTAGED WOMEN- OWNED
---	------	--	--	--

14. SHIP TO CODE	15. PAYMENT WILL BE MADE BY DFAS DAG OAKLAND BLDG. 311-4W CODE FPV 7TH & MARITIME STS OAKLAND CA 94625-5000	CODE	MARK ALL PACKAGES AND PAPERS WITH CONTRACT OR ORDER NUMBER
---------------------	--	------	--

16. TYPE OF ORDER	DELIVERY <input type="checkbox"/> PURCHASE <input type="checkbox"/> ACCEPTANCE <input type="checkbox"/>	<small>IF DELIVERY ORDER IS ISSUED ON ANOTHER GOVERNMENT AGENCY OR IN ACCORDANCE WITH AN SUBJECT TO TERMS AND CONDITIONS OF ABOVE NUMBERED CONTRACT</small> <small>REFERENCE TO: WRITTEN QUOTE OF 3 JUNE 1996 FURNISH THE FOLLOWING ON TERMS SPECIFIED HEREIN.</small> <small>THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH AND AGREES TO PERFORM THE SAME.</small>		
	NAME OF CONTRACTOR	SIGNATURE	TYPED NAME AND TITLE	DATE SIGNED

17. ACCOUNTING AND APPROPRIATION DATA/LOCAL USE
AA1761804 8B5B 000 62678 0 068892 2D CP0003 645046CE99Q SUPSHPBLG CON & REP F2276 \$99,000.00

18. ITEM NO.	19. SCHEDULE OF SUPPLIES/SERVICE	20. QUANTITY ORDERED/ACCEPTED	21. UNIT	22. UNIT PRICE	23. AMOUNT
0001	THE CONTRACTOR SHALL PROVIDE ALL SUPERVISION, LABOR, AND EQUIPMENT TO TRANSPORT COAL RESIDUE FROM THE NAVAL BASE COAL FIELD TO AN APPROVED DISPOSAL SITE. THE GOVERNMENT WILL LOAD THE RESIDUE INTO DUMP TRAILERS PROVIDED BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND PROPER DISPOSAL AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS. A MUTUAL WORK SCHEDULE SHALL BE AGREED UPON BY THE CONTRACTOR AND THE GOVERNMENT OFFICE PERFORMING THE LOADING PRIOR TO THE START OF THE WORK. DELAYS CAUSED BY THE GOVERNMENT'S FAILURE TO PROMPTLY LOAD MUST BE DOCUMENTED IN ORDER FOR THE CONTRACTOR TO BE CONSIDERED FOR AN EXTENSION IF NEEDED. THE CONTRACTOR WILL PROVIDE COPIES OF WEIGHT RECEIPTS FOR EACH LOAD. RECEIPTS WILL CONTAIN AS A MINIMUM THE FOLLOWING INFORMATION: DATE, TIME, TRUCK #, DRIVER, AND SCALE WEIGHTS. THE CONTRACTOR'S REPRESENTATIVE SHALL ENSURE PROPER LOADING OF THE TRAILERS. THEREFORE ANY LOAD FINES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.	3300	TONS	\$30.00	\$99,000.00

CONFIRMED COPY

IF QUANTITY ACCEPTED BY THE GOVERNMENT IS SAME AS QUANTITY ORDERED, INDICATE BY X. IF DIFFERENT, ENTER ACTUAL QUANTITY ACCEPTED BELOW QUANTITY ORDERED AND ENCIRCLE.	24. UNITED STATES OF AMERICA BY: J. D. THOMPSON CONTRACTING OFFICER/ORDERING OFFICER	25. TOTAL	29. DIFFERENCES	\$99,000.00
--	--	-----------	-----------------	-------------

26. QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> INSPECTED <input checked="" type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED	27. SHIP NO. PARTIAL <input type="checkbox"/> FINAL <input type="checkbox"/>	28. D.O. VOUCHER NO.	30. INITIALS
--	--	----------------------	--------------

31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	32. PAID BY	33. AMOUNT VERIFIED CORRECT FOR 34. CHECK NUMBER 35. BILL OF LADING NO.
--	-------------	---

37. RECEIVED AT	38. RECEIVED BY	39. DATE RECEIVED	40. TOTAL CONTAINERS	41. S/R ACCOUNT NUMBER	42. S/R VOUCHER NO.
-----------------	-----------------	-------------------	----------------------	------------------------	---------------------

CERTIFIED MAIL

September 5, 1996

Supervisor of Shipbuilding, Conversion and Repair, USN
Portsmouth, Virginia, Detachment Environmental Charleston
1899 North Hobson Avenue, Building 30
North Charleston, South Carolina 29405-2106
Attn.. Mr. Bobby Dearhart

RE: Proposed disposal of coal and dirt mix
Letter dated August 19, 1996 (Dearhart to Tapia)

Dear Mr. Dearhart,

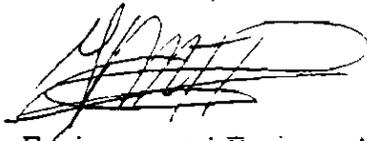
The above referenced letter was received by the South Carolina Department of Health and Environmental Control (Department) on August 20, 1996. This letter explains that the Charleston Environmental Detachment is conducting an Interim Measure action at SWMU 44, the coal field storage yard. As product of these Interim Measures an amount of approximately 5,000 tons of coal-dirt residue mix has been accumulated for successive disposal.

Results of analysis of samples taken from the stockpile were attached to the above referenced letter. The Environmental Detachment has characterized the coal-dirt mix as non-hazardous and recommends that it be used as a daily cover for the Charleston County Landfill at Bee's Ferry Road in Charleston, SC, or utilized by the Charleston County Public Works Department as a road bed fill for ongoing road construction in the county.

Based on the review of the information received and the concurrence of the Waste Assessment Section (see attached memo Seabrook to Tapia) of this Department, the Charleston Environmental Detachment is authorized to dispose of the coal-dirt mix as proposed.

If you have any questions please contact me at (803)896-4179 or Paul Bergstrand at (803)896-4016.

Sincerely,



Johnny Tapia, Environmental Engineer Associate
Hazardous Waste Permitting Section
Bureau of Solid and Hazardous Waste Management

attachment

cc: Paul Bergstrand, Hydrogeology
Rick Richter, Trident District
Harold Seabrook, Waste Assessment
Doyle Brittain, US EPA, Region IV
Kevin Tunstall, Detachment
Brian Stockmaster, SOUTHNAVFACENGNCOM

August 30, 1996

MEMORANDUM

TO: Johnny Tapia
Hazardous Waste Permitting

FROM: Harold Seabrook, Manager
Waste Assessment Section



REFERENCE: Coal Residue Mixed with Soil
Charleston Naval Shipyard (August 20, 1996)
Received August 27, 1996

The above reference letter and analytical results were received and reviewed. Based on that review, the coal residue and soil are non-hazardous as submitted by Department of Navy. Also, we agree that the material can be used as daily cover at Charleston County Landfill at Bee's Ferry Road or it can be used as road bed fill by Charleston County Public Works Department.

HS:aag

ORDER FOR SUPPLIES OR SERVICES

Form Approved
OMB No. 0704-0187
Expires Aug 31, 1992

Page 1 of 20

(Contractor must submit four copies of invoice)

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0187), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send your completed form to the procurement official identified in Item 6.

1. CONTRACT/PURCH ORDER NO. N62467-96-M-4535		2. DELIVERY ORDER NO.		3. DATE OF ORDER 18 SEPT 96		4. REQUISITION/PURCH REQUEST NO. N6450496RCP0006		5. CERTIFIED FOR NATIONAL DEFENSE UNDER DDD FORM 1 DO-C9	
6. ISSUED BY OFFICER IN CHARGE OF CONSTRUCTION NAVAL WEAPONS STATION CHARLESTON 2316 RED BANK ROAD SUITE 100 GOOSE CREEK SC 29445-8601				7. ADMINISTERED BY (IF OTHER THAN 6) CODE SAME AS BLOCK 6 B. POWELL. CODE 542.1, (B03) 764-7400		8. DELIVERY FOB <input type="checkbox"/> DEST <input type="checkbox"/> OTHER (See Schedule if other)			
9. CONTRACTOR BUTLER WARE TRUCKING CO. 1227 OLD WHITESVILLE ROAD P.O. BOX 1558 MONCK'S CORNER, SC 29461				10. DELIVER TO FOB POINT BY (DATE) 25 SEPTEMBER 1996		11. MARK IF BUSINESS IS SMALL SMALL DISADVANTAGED WOMEN-OWNED		12. DISCOUNT TERMS N/A	
13. MAIL INVOICES TO SAME AS BLOCK 7				14. SHIP TO CODE		15. PAYMENT WILL BE MADE BY CODE OPAB DAD-OAKLAND BLDG. 311-4W CODE FPV 7TH & MARITIME STS OAKLAND CA 94625-6000		MARK ALL PACKAGES AND PAPERS WITH CONTRACT OR ORDER NUMBER	
16. TYPE OF ORDER		DELIVERY <input type="checkbox"/> <small>THIS DELIVERY ORDER IS ISSUED ON ANOTHER GOVERNMENT AGENCY OR IN ACCORDANCE WITH AN SUBJECT TO TERMS AND CONDITIONS OF ABOVE NUMBERED CONTRACT.</small> PURCHASE <input type="checkbox"/> <small>FOR YOUR WRITTEN QUOTE OF 17 SEPTEMBER 1996</small> ACCEPTANCE <input type="checkbox"/> <small>THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE MAJOR PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR BE NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH AND AGREES TO FULFILL THE SAME.</small>							
NAME OF CONTRACTOR		SIGNATURE		TYPED NAME AND TITLE		DATE SIGNED			
IF THIS BOX IS MARKED, SUPPLIER MUST SIGN ACCEPTANCE AND RETURN THE FOLLOWING NUMBER OF COPIES:									
17. ACCOUNTING AND APPROPRIATION DATA/LOCAL USE AA1761804 8858 000 62678 0 068892 2D CP0006 645046CEA99Q F2276 SPORTENVDETCHASN N6450496RCP0006 - \$16,991.44									
18. ITEM NO.	19. SCHEDULE OF SUPPLIES/SERVICE	20. QUANTITY ORDERED/ACCEPTED	21. UNIT	22. UNIT PRICE	23. AMOUNT				
0001	THE CONTRACTOR SHALL PROVIDE ALL SUPERVISION, LABOR, AND EQUIPMENT TO TRANSPORT THE CLEAN UP DIRT FROM THE CDAL YARD STORAGE (WHICH IS CLASSIFIED AS A NON-HAZARDOUS REUSABLE DIRT) FROM THE NAVAL BASE COMPLEX TO BEE'S FERRY LANDFILL FOR USE AS A DAILY CAP. THE GOVERNMENT WILL THE LOAD DIRT INTO DUMP TRAILERS PROVIDED BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND PROPER DISPOSAL AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS. A MUTUAL WORK SCHEDULE SHALL BE AGREED UPON BY THE CONTRACTOR AND THE GOVERNMENT OFFICE PERFORMING THE LOADING PRIOR TO THE START OF WORK. DELAYS CAUSED BY THE GOVERNMENT'S FAILURE TO PROMPTLY LOAD MUST BE DOCUMENTED IN ORDER FOR THE CONTRACTOR TO BE CONSIDERED FOR A TIME EXTENSION IF NEEDED.	3,503.39	TONS	\$4.85	\$16,991.44	pd. 10-4-96			
TERM OF SERVICES: 15 SEPTEMBER 1996 - 25 SEPTEMBER 1996.									
24. UNITED STATES OF AMERICA		BY: J. D. THOMPSON				25. TOTAL			
		CONTRACTING OFFICER/ORDERING OFFICER				29. DIFFERENCES			
						\$16,991.44			
26. QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED		27. SHIP NO. <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		28. B.D. VOUCHER NO.		30. INITIALS			
9-23-96 <i>J. D. Thompson</i>									
36. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT		31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		32. PAID BY		33. AMOUNT VERIFIED CORRECT FOR 34. CHECK NUMBER 35. BILL OF LADING NO.			
DATE SIGNATURE AND TITLE OF CERTIFYING OFFICER									
37. RECEIVED AT		38. RECEIVED BY		39. DATE RECEIVED		40. TOTAL CONTAINERS		41. B/R ACCOUNT NUMBER	
								42. B/R VOUCHER NO.	