

N61165.AR.004005  
CNC CHARLESTON  
5090.3a

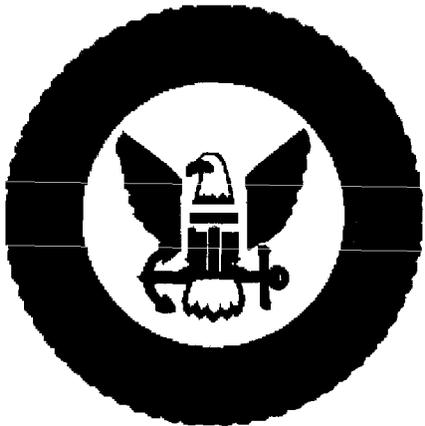
COMPLETION REPORT INTERIM MEASURE FOR SOLID WASTE MANAGEMENT UNIT 2  
(SWMU 2) VOLUME 3 OF 3 CNC CHARLESTON SC  
11/29/1999  
SOUTH CAROLINA RESEARCH AUTHORITY



# COMPLETION REPORT

INTERIM MEASURE FOR  
SWMU 2  
NAVAL BASE CHARLESTON  
CHARLESTON, SC

Volume 3 of 3



Prepared for:

DEPARTMENT OF THE NAVY  
SOUTHERN DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
CHARLESTON SC

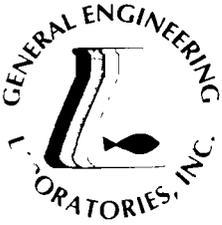
Contract Number: CHNPO9923



Prepared by:

SOUTH CAROLINA RESEARCH AUTHORITY  
Environmental Enterprise Group  
1899 North Hobson Avenue, Bldg. 30  
North Charleston, SC 29405-2106

November 29, 1999



# GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow

### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 24, 1998

Page 1 of 1

Sample ID : SPORT0667-6  
 Lab ID : 9804579-08  
 Matrix : Soil  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		412000	65.2	481	ug/kg	2.0	MBL	04/23/98	1141	120652	1

**The following prep procedures were performed:**

TRACE

VMM 04/22/98 1600 120652 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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*Karen Blakeney*  
 \_\_\_\_\_  
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Page 1 of 1

Sample ID : SPORT0667-7  
 Lab ID : 9804579-09  
 Matrix : Soil  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		10600	64.5	476	ug/kg	2.0	MBL	04/23/98	1146	120652	1

**The following prep procedures were performed:**

TRACE

VMM 04/22/98 1600 120652 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes.

The qualifiers in this report are defined as follows.

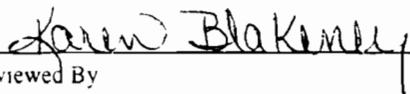
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Page 1 of 1

Sample ID : SPORT0667-7  
 Lab ID : 9804579-10  
 Matrix : TCLP  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		24000	3.39	25.0	ug/l	5.0	MBL	04/24/98	1128	120626	1

### The following prep procedures were performed:

TCLP Prep for Metals JL 04/22/98 1840 120655 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 1311

### Notes:

The qualifiers in this report are defined as follows:

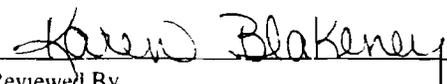
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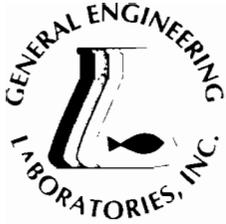
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Page 1 of 1

Sample ID : SPORT0667-8  
 Lab ID : 9804579-11  
 Matrix : Soil  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		5110000	332	2450	ug/kg	10.	MBL	04/23/98	1410	120652	1

**The following prep procedures were performed:**

TRACE VMM 04/22/98 1600 120652 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

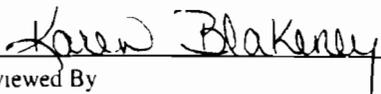
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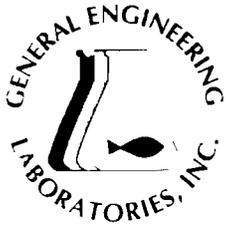
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Page 1 of 1

Sample ID : SPORT0667-9  
 Lab ID : 9804579-12  
 Matrix : Soil  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		34000	67.1	495	ug/kg	2.0	MBL	04/23/98	1207	120652	1

The following prep procedures were performed:  
 TRACE

VMM 04/22/98 1600 120652 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

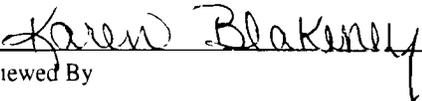
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cc: NPWC00197

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Page 1 of 1

Sample ID : SPORT0667-10  
 Lab ID : 9804579-13  
 Matrix : Soil  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		767000	64.5	476	ug/kg	2.0	MBL	04/23/98	1213	120652	1

The following prep procedures were performed:  
 TRACE

VMM 04/22/98 1600 120652 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes.

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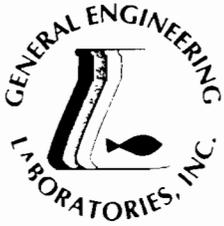
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Page 1 of 1

Sample ID : SPORT0667-11  
 Lab ID : 9804579-14  
 Matrix : Soil  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		1400000	63.3	467	ug/kg	2.0	MBL	04/23/98	1218	120652	1

The following prep procedures were performed:  
 TRACE

VMM 04/22/98 1600 120652 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

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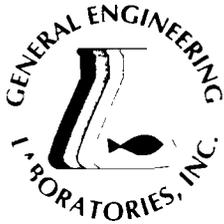
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 North Charleston, South Carolina 29405-2106

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Page 1 of 1

Sample ID : SPORT0667-12  
 Lab ID : 9804579-15  
 Matrix : Soil  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		1060000	62.8	463	ug/kg	2.0	MBL	04/23/98	1223	120652	1

**The following prep procedures were performed:**

TRACE

VMM 04/22/98 1600 120652 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes

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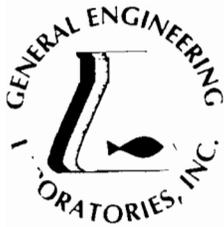
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Page 1 of 1

Sample ID : SPORT0667-13  
 Lab ID : 9804579-16  
 Matrix : Soil  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		4710000	65.8	485	ug/kg	2.0	MBL	04/23/98	1229	120652	1

### The following prep procedures were performed:

TRACE VMM 04/22/98 1600 120652 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes:

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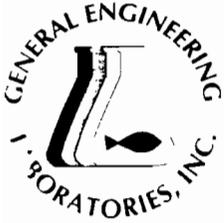
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Sample ID : SPORT0667-14  
 Lab ID : 9804579-17  
 Matrix : Soil  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		39100	64.0	472	ug/kg	2.0	MBL	04/23/98	1234	120652	1

The following prep procedures were performed:  
 TRACE

VMM 04/22/98 1600 120652 2

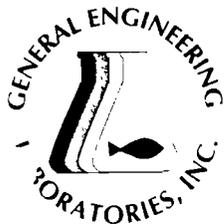
M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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Sample ID : SPORT0667-15  
 Lab ID : 9804579-18  
 Matrix : Soil  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		10100	63.3	467	ug/kg	2.0	MBL	04/23/98	1239	120652	1

The following prep procedures were performed:  
 TRACE

VMM 04/22/98 1600 120652 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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Sample ID : SPORT0667-16  
 Lab ID : 9804579-19  
 Matrix : Soil  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		184000	65.8	485	ug/kg	2.0	MBL	04/23/98	1245	120652	1

**The following prep procedures were performed:**

TRACE

VMM 04/22/98 1600 120652 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

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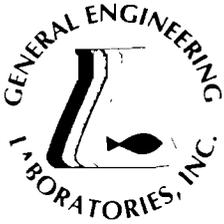
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Sample ID : SPORT0667-17  
 Lab ID : 9804579-20  
 Matrix : Soil  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		11100	66.4	490	ug/kg	2.0	MBL	04/23/98	1250	120652	1

The following prep procedures were performed:  
 TRACE

VMM 04/22/98 1600 120652 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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

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

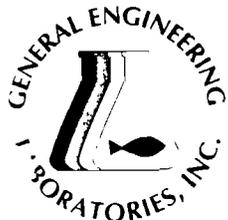
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 24, 1998

Page 1 of 1

Sample ID : SPORT0667-18  
 Lab ID : 9804579-21  
 Matrix : Soil  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		5480000	320	2360	ug/kg	10.	MBL	04/23/98	1415	120652	1

**The following prep procedures were performed:**

TRACE

VMM 04/22/98 1600 120652 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes:**

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

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 North Charleston, South Carolina 29405-2106

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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 24, 1998

Page 1 of 1

Sample ID : SPORT0667-19  
 Lab ID : 9804579-22  
 Matrix : Soil  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		3410000	66.4	490	ug/kg	2.0	MBL	04/23/98	1311	120652	1

The following prep procedures were performed:  
 TRACE

VMM 04/22/98 1600 120652 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes:

The qualifiers in this report are defined as follows:

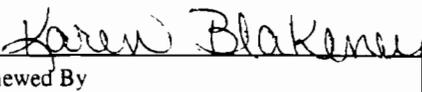
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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 24, 1998

Page 1 of 1

Sample ID : SPORT0667-19  
 Lab ID : 9804579-23  
 Matrix : TCLP  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		4860	3.39	25.0	ug/l	5.0	MBL	04/24/98	1135	120626	1

**The following prep procedures were performed:**

TCLP Prep for Metals

JL 04/22/98 1840 120655 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 1311

**Notes:**

The qualifiers in this report are defined as follows:

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

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

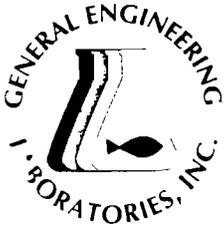
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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 24, 1998

Page 1 of 1

Sample ID : SPORT0667-20  
 Lab ID : 9804579-24  
 Matrix : Soil  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		1220000	64.5	476	ug/kg	2.0	MBL	04/23/98	1317	120652	1

**The following prep procedures were performed:**

TRACE

VMM 04/22/98 1600 120652 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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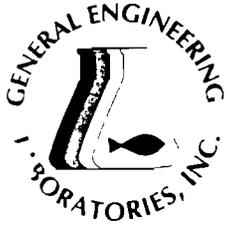
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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 24, 1998

Page 1 of 1

Sample ID : SPORT0667-21  
 Lab ID : 9804579-25  
 Matrix : Soil  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		1540000	64.5	476	ug/kg	2.0	MBL	04/23/98	1257	120653	1

The following prep procedures were performed:  
 TRACE

VMM 04/22/98 1600 120653 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes:

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 24, 1998

Page 1 of 1

Sample ID : SPORT0667-22  
 Lab ID : 9804579-26  
 Matrix : Soil  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		52800	66.4	490	ug/kg	2.0	MBL	04/23/98	1303	120653	1

The following prep procedures were performed:  
 TRACE

VMM 04/22/98 1600 120653 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes:

The qualifiers in this report are defined as follows:

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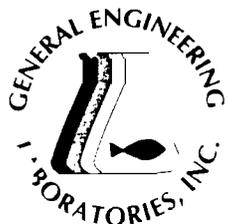
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 North Charleston, South Carolina 29405-2106

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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 24, 1998

Page 1 of 1

Sample ID : SPORT0667-23  
 Lab ID : 9804579-27  
 Matrix : Soil  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		2750000	66.4	490	ug/kg	2.0	MBL	04/23/98	1309	120653	1

The following prep procedures were performed:  
 TRACE

VMM 04/22/98 1600 120653 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes:

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9804579%

Report Date: April 24, 1998

Page 1 of 1

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
<b>Metals Analysis</b>													
QC501912	BLANK	120626											
Lead						3.10	ug/l				MBL	04/24/98	0849
QC501913	BLANK	120626											
Lead						2.36	ug/l				MBL	04/24/98	0855
QC501914	BLANK	120626											
Lead						2.44	ug/l				MBL	04/24/98	0901
QC502004	BLANK	120652											
Lead						45.6	ug/kg				MBL	04/23/98	1102
QC502009	BLANK	120653											
Lead						52.5	ug/kg				MBL	04/23/98	1233
QC501915	LCS	120626											
Lead			5000			4980	ug/l		99.6	(82.4 - 125.)	MBL	04/24/98	0908
QC502005	LCS	120652											
Lead			131000			140000	ug/kg		107	(77.1 - 116.)	MBL	04/23/98	1108
QC502010	LCS	120653											
Lead			134000			114000	ug/kg		84.7	(77.1 - 116.)	MBL	04/23/98	1239
QC502007	9804579-24MS	120652											
Lead			49000	1220000	9520000		ug/kg		n/a		MBL	04/23/98	1327
QC502012	9804584-11MS	120653											
Lead			48100	5990	57300		ug/kg		92.7	(56.3 - 135.)	MBL	04/23/98	1459
QC502008	9804579-24MSD	120652											
Lead			48500	1220000	2400000		ug/kg		n/a		MBL	04/23/98	1333
QC502013	9804584-11MSD	120653											
Lead			48500	5990	56800		ug/kg	1.81	91.1	(0.00 - 34.0)	MBL	04/23/98	1505
QC502006	9804579-24SERIAL	120652											
Lead				1220000	1260000		ug/kg	2.49			MBL	04/23/98	1322
QC502011	9804584-11SERIAL	120653											
Lead				5990	6080		ug/kg	1.49			MBL	04/23/98	1454

Notes:

The qualifiers in this report are defined as follows:

J indicates presence of analyte < RL (Report Limit)

U indicates presence of analyte < DL (Detect Limit)

n/a indicates that spike recovery limits do not apply when sample concentration exceeds spike conc by a factor of 4 or more

NPW 11/1

three day Turnc und

General Engineering Laboratories, Inc.  
2040 Savage Road  
Charleston, South Carolina 29407  
P.O. Box 30712  
Charleston, South Carolina 29417  
(803) 556-8171

# CHAIN OF CUSTODY RECORD

Page 1 of 2

9804579

Client Name/Facility Name			Collected by/Company				# OF CONTAINERS	SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods																	Use F or P in the boxes to indicate whether sample was filtered and/or preserved
Sport Env Det Chasn			Sport Env Det Chasn					pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	LEAD	PCB	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	TCLP lead	
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB																			
01 Sport 0667-1	4/21/98	09:32	X				1					X										X		NBCA 002 S Ph2 001 01	
02 Sport 0667-2	4/21/98	09:37	X				1					X												NBCA 002 S Ph2 001 02	
03 Sport 0667-3	4/21/98	09:52	X				1					X										X		NBCA 002 S Ph2 002 01	
04 Sport 0667-4	4/21/98	10:18	X				1					X												NBCA 002 S Ph2 003 01	
05 Sport 0667-5	4/21/98	10:35	X				1					X												NBCA 002 S Ph2 004 01	
06 Sport 0667-6	4/21/98	10:40	X				1					X												NBCA 002 S Ph2 004 02	
07 Sport 0667-7	4/21/98	10:49	X				1					X										X		NBCA 002 S Ph2 005 01	
08 Sport 0667-8	4/21/98	10:54	X				1					X												NBCA 002 S Ph2 005 02	
09 Sport 0667-9	4/21/98	11:05	X				1					X												NBCA 002 S Ph2 006 01	
10 Sport 0667-10	4/21/98	11:10	X				1					X												NBCA 002 S Ph2 006 02	
11 Sport 0667-11	4/21/98	13:12	X				1					X												NBCA 002 S Ph2 007 01	
12 Sport 0667-12	4/21/98	13:15	X				1					X												NBCA 002 S Ph2 007 02	
13 Sport 0667-13	4/21/98	13:19	X				1					X												NBCA 002 S Ph2 008 01	
Relinquished by: <i>Math W. J...</i>			Date: 4/21/98	Time: 15:25	Received by: <i>Joe L...</i>			Relinquished by: <i>Joe L...</i>			Date: 4/21/98	Time: 1445	Received by: <i>Karen B...</i>												
Relinquished by: <i>Karen B...</i>			Date: 4/22/98	Time: 1510	Received by lab by: <i>Donnie Francis</i>			Date: 4/22/98	Time: 1510	Remarks:															

White = sample collector | Yellow = file | Pink = with report





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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 24, 1998

Page 1 of 1

Sample ID : SPORT0669-1 Relog SPORT0632-25  
 Lab ID : 9804525-01  
 Matrix : TCLP  
 Date Collected : 03/25/98  
 Date Received : 04/21/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		65400	3.39	25.0	ug/l	5.0	MBL	04/24/98	1029	120626	1

**The following prep procedures were performed:**

TCLP Prep for Metals JL 04/21/98 1810 120513 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 1311

Notes:

The qualifiers in this report are defined as follows:

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

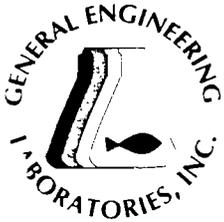
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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 24, 1998

Page 1 of 1

Sample ID : SPORT0669-2 Relog SPORT0636-23  
 Lab ID : 9804525-02  
 Matrix : TCLP  
 Date Collected : 03/30/98  
 Date Received : 04/21/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		10200	3.39	25.0	ug/l	5.0	MBL	04/24/98	1035	120626	1

**The following prep procedures were performed:**

TCLP Prep for Metals

JL 04/21/98 1810 120513 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 1311

Notes:

The qualifiers in this report are defined as follows:

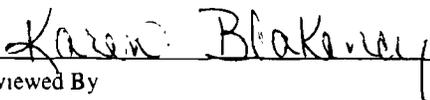
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

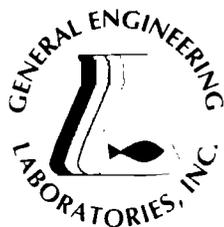
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 24, 1998

Page 1 of 1

Sample ID : SPORT0669-3 Relog SPORT0639-13  
 Lab ID : 9804525-03  
 Matrix : TCLP  
 Date Collected : 03/31/98  
 Date Received : 04/21/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		6740	3.39	25.0	ug/l	5.0	MBL	04/24/98	1041	120626	1

**The following prep procedures were performed:**

TCLP Prep for Metals JL 04/21/98 1810 120513 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 1311

**Notes:**

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Karen Blakeney  
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FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 24, 1998

Page 1 of 1

Sample ID : SPORT0669-4 Relog SPORT0630-25  
 Lab ID : 9804525-04  
 Matrix : TCLP  
 Date Collected : 03/24/98  
 Date Received : 04/21/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		51600	3.39	25.0	ug/l	5.0	MBL	04/24/98	1024	120626	1

**The following prep procedures were performed:**

TCLP Prep for Metals JL 04/21/98 1810 120513 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 1311

**Notes:**

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 North Charleston, South Carolina 29405-2106

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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 24, 1998

Page 1 of 1

Sample ID : SPORT0669-5 Relog SPORT0608-29  
 Lab ID : 9804525-05  
 Matrix : TCLP  
 Date Collected : 03/23/98  
 Date Received : 04/21/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		8400	3.39	25.0	ug/l	5.0	MBL	04/24/98	1047	120626	1

**The following prep procedures were performed:**

TCLP Prep for Metals JL 04/21/98 1810 120513 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 1311

**Notes:**

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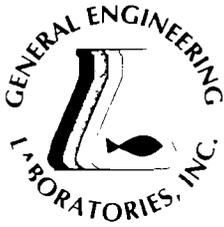
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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 24, 1998

Page 1 of 1

Sample ID : SPORT0669-6 Relog SPORT0630-07  
 Lab ID : 9804525-06  
 Matrix : TCLP  
 Date Collected : 03/24/98  
 Date Received : 04/21/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		208	3.39	25.0	ug/l	5.0	MBL	04/24/98	1053	120626	1

**The following prep procedures were performed:**

TCLP Prep for Metals JL 04/21/98 1810 120513 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 1311

**Notes:**

The qualifiers in this report are defined as follows:

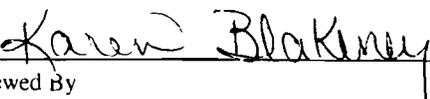
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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9804525%

Report Date: April 24, 1998

Page 1 of 1

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
<b>Metals Analysis</b>													
QC501912	BLANK	120626											
Lead						3.10	ug/l				MBL	04/24/98	0849
QC501913	BLANK	120626											
Lead						2.36	ug/l				MBL	04/24/98	0855
QC501914	BLANK	120626											
Lead						2.44	ug/l				MBL	04/24/98	0901
QC501915	LCS	120626											
Lead			5000			4980	ug/l		99.6	(82.4 - 125.)	MBL	04/24/98	0908
QC502078	9804525-06MS	120626											
Lead			5000	208		5000	ug/l		95.9		MBL	04/24/98	1111

tes:

The qualifiers in this report are defined as follows:

J indicates presence of analyte < RL (Report Limit)

U indicates presence of analyte < DL (Detect Limit)

n/a indicates that spike recovery limits do not apply when

sample concentration exceeds spike conc by a factor of 4 or more

General Engineering Labor, Inc.  
 2040 Savage Road  
 Charleston, South Carolina 29407  
 P.O. Box 30712  
 Charleston, South Carolina 29417  
 (803) 556-8171

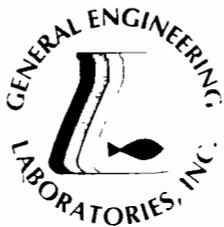
# CHAIN OF CUSTODY RECORD

9804528

Page 1 of 1

Client Name/Facility Name				SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods																Use F or P in the boxes to indicate whether sample was filtered and/or preserved	
Collected by/Company																					
SAMPLE ID	DATE	TIME	# OF CONTAINERS			pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Remarks
			WELL	SOIL	COMP																
SPORT 0632-25 R 9803642-25 ✓	3/25/98	1021									X										TCLP-Pb
SPORT 0636-23 R 9804023-22	3/30/98	1445									X										
SPORT 0639-13 R 9804024-13	3/31/98	0915									X										
SPORT 0630-25 R 9803581-25 ✓	3/24/98	1030									X										
SPORT 0608-29 R 9803538-29	3/23/98	1410									X										
SPORT 0630-07 R 9803581-07 ✓	3/24/98	0915									X										
Relinquished by:	Date:	Time:	Received by:				Relinquished by:				Date:	Time:	Received by:								
Relinquished by:	Date:	Time:	Received by lab by:				Date:	Time:	Remarks:												

White = sample collector    Yellow = file    Pink = with report from client



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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 06, 1998

Page 1 of 1

Sample ID : SPORT0678-1  
 Lab ID : 9805067-01  
 Matrix : Soil  
 Date Collected : 05/04/98  
 Date Received : 05/04/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		662000	66.4	490	ug/kg	2.0	MBL	05/06/98	0840	121463	1

**The following prep procedures were performed:**

TRACE

VMM 05/05/98 1500 121463 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

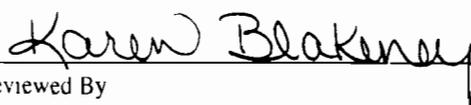
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cc: NPWC00197

Report Date: May 06, 1998

Page 1 of 1

Sample ID : SPORT0678-2  
 Lab ID : 9805067-02  
 Matrix : Soil  
 Date Collected : 05/04/98  
 Date Received : 05/04/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		441000	67.1	495	ug/kg	2.0	MBL	05/06/98	0845	121463	1

**The following prep procedures were performed:**

TRACE

VMM 05/05/98 1500 121463 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes.**

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cc: NPWC00197

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Page 1 of 1

Sample ID : SPORT0678-3  
 Lab ID : 9805067-03  
 Matrix : Soil  
 Date Collected : 05/04/98  
 Date Received : 05/04/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		8940	65.2	481	ug/kg	2.0	MBL	05/06/98	0850	121463	1

**The following prep procedures were performed:**

TRACE VMM 05/05/98 1500 121463 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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 North Charleston, South Carolina 29405-2106

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Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: May 06, 1998

Page 1 of 1

Sample ID : SPORT0678-4  
 Lab ID : 9805067-04  
 Matrix : Soil  
 Date Collected : 05/04/98  
 Date Received : 05/04/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		20100	64.5	476	ug/kg	2.0	MBL	05/06/98	0856	121463	1

**The following prep procedures were performed:**

TRACE

VMM 05/05/98 1500 121463 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

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Sample ID : SPORT0678-5  
 Lab ID : 9805067-05  
 Matrix : Soil  
 Date Collected : 05/04/98  
 Date Received : 05/04/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		66400	64.0	472	ug/kg	2.0	MBL	05/06/98	0901	121463	1

**The following prep procedures were performed:**

TRACE

VMM 05/05/98 1500 121463 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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Sample ID : SPORT0678-6  
 Lab ID : 9805067-06  
 Matrix : Soil  
 Date Collected : 05/04/98  
 Date Received : 05/04/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		26700	67.8	500	ug/kg	2.0	MBL	05/06/98	0906	121463	1

**The following prep procedures were performed:**

TRACE

VMM 05/05/98 1500 121463 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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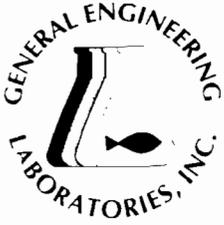
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Sample ID : SPORT0678-7  
 Lab ID : 9805067-07  
 Matrix : Soil  
 Date Collected : 05/04/98  
 Date Received : 05/04/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		350000	66.4	490	ug/kg	2.0	MBL	05/06/98	0912	121463	1

The following prep procedures were performed:  
 TRACE

VMM 05/05/98 1500 121463 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

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cc: NPWC00197

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Sample ID : SPORT0678-8  
 Lab ID : 9805067-08  
 Matrix : Soil  
 Date Collected : 05/04/98  
 Date Received : 05/04/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		27900	67.8	500	ug/kg	2.0	MBL	05/06/98	0917	121463	1

### The following prep procedures were performed:

TRACE

VMM 05/05/98 1500 121463 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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

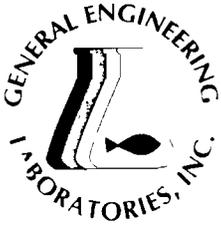
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Page 1 of 1

Sample ID : SPORT0678-9  
 Lab ID : 9805067-09  
 Matrix : Soil  
 Date Collected : 05/04/98  
 Date Received : 05/04/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		15700	65.2	481	ug/kg	2.0	MBL	05/06/98	0933	121463	1

**The following prep procedures were performed:**

TRACE

VMM 05/05/98 1500 121463 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

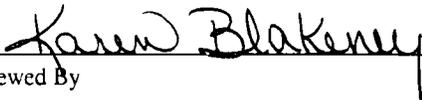
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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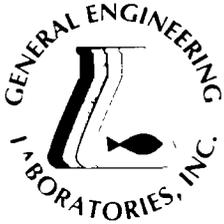
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Meeting today's needs with a vision for tomorrow

### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: May 06, 1998

Page 1 of 1

Sample ID : SPORT0678-10  
 Lab ID : 9805067-10  
 Matrix : Soil  
 Date Collected : 05/04/98  
 Date Received : 05/04/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		6550	65.2	481	ug/kg	2.0	MBL	05/06/98	0939	121463	1

**The following prep procedures were performed:**

TRACE

VMM 05/05/98 1500 121463 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

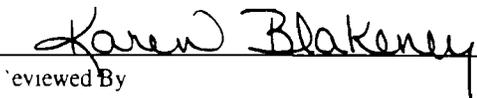
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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.

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9805067-01

Report Date: May 06, 1998

Page 1 of 1

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
<b>Metals Analysis</b>													
QC504935	BLANK	121463											
Lead						49.9	ug/kg				MBL	05/06/98	0828
QC504936	LCS	121463											
Lead			132000			127000	ug/kg		96.5	(77.1 - 116.)	MBL	05/06/98	0833
QC504938	9805067-10MS	121463											
Lead			48500	6550		56000	ug/kg		102	(56.3 - 135.)	MBL	05/06/98	0949
QC504939	9805067-10MSD	121463											
Lead			48500	6550		57000	ug/kg	2.04	104	(0.00 - 34.0)	MBL	05/06/98	0955
QC504937	9805067-10SERIAL	121463											
Lead				6550		6250	ug/kg	4.66			MBL	05/06/98	0944

Notes:

The qualifiers in this report are defined as follows:

J indicates presence of analyte < RL (Report Limit)

U indicates presence of analyte < DL (Detect Limit)

n/a indicates that spike recovery limits do not apply when

sample concentration exceeds spike conc by a factor of 4 or more

NPL 00141

# Three Day Turnaround CHAIN OF CUSTODY RECORD 9805067-

General Engineering Laboratories, Inc.  
2040 Savage Road  
Charleston, South Carolina 29407  
P.O. Box 30712  
Charleston, South Carolina 29417  
(803) 556-8171

Page 1 of 1

Client Name/Facility Name SPORT ENVDET CHASN						SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods															Use F or P in the boxes to indicate whether sample was filtered and/or preserved	
Collected by/Company SPORT ENVDET CHASN						# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	LEAD, COPPER, METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Remarks
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP																	
01	SPORT0678-1	5/4/98	10:45	X								X										NBCA002SPh201301
02	Sport 0678-2	5/4/98	10:50	X								X										NBCA002SPh201302
03	Sport 0678-3	5/4/98	11:00	X								X										NBCA002SPh201401
04	Sport 0678-4	5/4/98	11:06	X								X										NBCA002SPh201402
05	Sport 0678-5	5/4/98	11:16	X								X										NBCA002SPh201501
06	Sport 0678-6	5/4/98	11:20	X								X										NBCA002SPh201502
07	Sport 0678-7	5/4/98	11:33	X								X										NBCA002SPh201601
08	Sport 0678-8	5/4/98	11:37	X								X										NBCA002SPh201602
09	Sport 0678-9	5/4/98	11:46	X								X										NBCA002SPh201701
10	Sport 0678-10	5/4/98	11:52	X								X										NBCA002SPh201702

Relinquished by: Matthew W. [Signature] Date: 5/4/98 Time: 1310 Received by: Vivian Wadsworth Date: 5/4/98 Time: 1415 Received by: [Signature]

Relinquished by: [Signature] Date: 5/4/98 Time: 1530 Received by lab by: Karen Blakemey Date: 5/4/98 Time: 1535 Remarks: 1530 P88

Whit = sample collector    Yellow = file    Pink = with report



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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-72  
 Lab ID : 9804024-72  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		9900	65.2	481	ug/kg	2.0	MBL	04/06/98	1744	119398	1

The following prep procedures were performed:  
 TRACE

VMM 04/03/98 1000 119398 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes.

The qualifiers in this report are defined as follows:

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-73  
 Lab ID : 9804024-73  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		12900	67.8	500	ug/kg	2.0	MBL	04/06/98	1750	119398	1

**The following prep procedures were performed:**

TRACE

VMM 04/03/98 1000 119398 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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TN	02934	02934

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-74  
 Lab ID : 9804024-74  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		18000	67.8	500	ug/kg	2.0	MBL	04/06/98	1756	119398	1

The following prep procedures were performed:  
 TRACE

VMM 04/03/98 1000 119398 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes:

The qualifiers in this report are defined as follows:

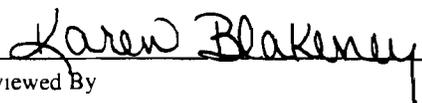
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

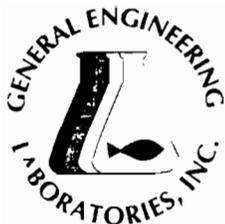
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-75  
Lab ID : 9804024-75  
Matrix : Soil  
Date Collected : 04/01/98  
Date Received : 04/01/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		6240	65.8	485	ug/kg	2.0	MBL	04/06/98	1802	119398	1

The following prep procedures were performed:  
TRACE

VMM 04/03/98 1000 119398 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes.

The qualifiers in this report are defined as follows:

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

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

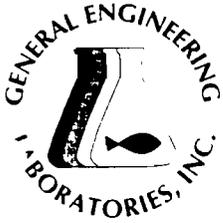
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-76  
Lab ID : 9804024-76  
Matrix : Soil  
Date Collected : 04/01/98  
Date Received : 04/01/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		20800	65.8	485	ug/kg	2.0	MBL	04/06/98	1819	119398	1

The following prep procedures were performed:  
TRACE

VMM 04/03/98 1000 119398 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows.

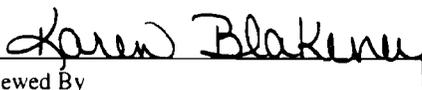
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-77  
 Lab ID : 9804024-77  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		12200	66.4	490	ug/kg	2.0	MBL	04/06/98	1825	119398	1

The following prep procedures were performed:  
 TRACE

VMM 04/03/98 1000 119398 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

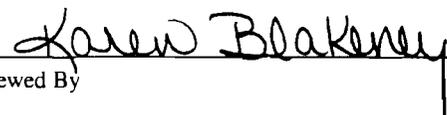
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

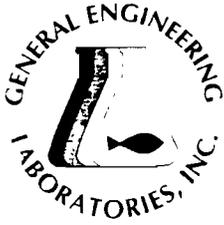
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TN	02934	02934

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-78  
 Lab ID : 9804024-78  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		8160	67.8	500	ug/kg	2.0	MBL	04/06/98	1831	119398	1

**The following prep procedures were performed:**

TRACE

VMM 04/03/98 1000 119398 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows.

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

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

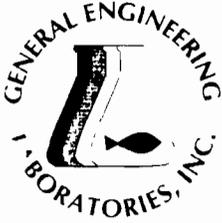
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-79  
 Lab ID : 9804024-79  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		13100	63.3	467	ug/kg	2.0	MBL	04/06/98	1837	119398	1

The following prep procedures were performed:  
 TRACE

VMM 04/03/98 1000 119398 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows.

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

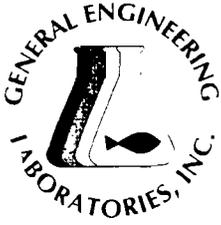
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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-80  
Lab ID : 9804024-80  
Matrix : Soil  
Date Collected : 04/01/98  
Date Received : 04/01/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		14000	62.2	459	ug/kg	2.0	MBL	04/06/98	1842	119398	1

### The following prep procedures were performed:

TRACE

VMM 04/03/98 1000 119398 2

### M = Method

### Method-Description

M 1 EPA 6010A  
M 2 EPA 3050

### Notes.

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Page 1 of 1

Sample ID : SPORT0639-81  
 Lab ID : 9804024-81  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		14200	62.8	463	ug/kg	2.0	MBL	04/06/98	1848	119398	1

### The following prep procedures were performed:

TRACE

VMM 04/03/98 1000 119398 2

### M = Method

### Method-Description

M 1 EPA 6010A  
 M 2 EPA 3050

### Notes.

The qualifiers in this report are defined as follows:

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

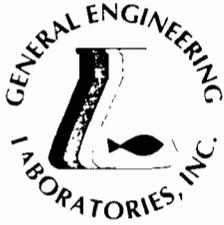
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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

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Page 1 of 1

Sample ID : SPORT0639-82  
 Lab ID : 9804024-82  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		9390	63.3	467	µg/kg	2.0	MBL	04/06/98	1854	119398	1

The following prep procedures were performed:  
 TRACE

VMM 04/03/98 1000 119398 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows.

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

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

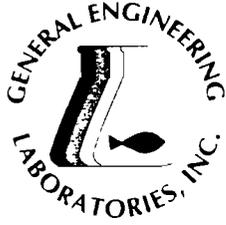
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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.

  
 Reviewed By





# GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow

### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-83  
 Lab ID : 9804024-83  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		10900	66.4	490	ug/kg	2.0	MBL	04/06/98	1900	119398	1

The following prep procedures were performed:  
 TRACE

VMM 04/03/98 1000 119398 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

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

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

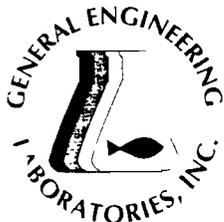
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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 Reviewed By





# GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-84  
 Lab ID : 9804024-84  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		12100	63.3	467	ug/kg	2.0	MBL	04/06/98	1905	119398	1

### The following prep procedures were performed:

TRACE

VMM 04/03/98 1000 119398 2

### M = Method

### Method-Description

M 1 EPA 6010A  
 M 2 EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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

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

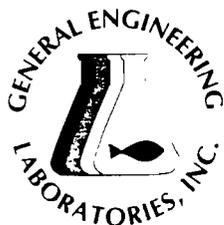
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 Reviewed By





# GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-85  
 Lab ID : 9804024-85  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		7900	64.0	472	ug/kg	2.0	MBL	04/06/98	1911	119398	1

**The following prep procedures were performed:**

TRACE

VMM 04/03/98 1000 119398 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

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

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.

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 in accordance with General Engineering Laboratories  
 standard operating procedures. Please direct  
 any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Reviewed By





# GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-86  
 Lab ID : 9804024-86  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		8490	65.8	485	ug/kg	2.0	MBL	04/06/98	1929	119398	1

**The following prep procedures were performed:**

TRACE

VMM 04/03/98 1000 119398 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

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

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.

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Reviewed By Karen Blakeney





# GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow

### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-87  
 Lab ID : 9804024-87  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		11800	64.5	476	ug/kg	2.0	MBL	04/06/98	1934	119398	1

The following prep procedures were performed:  
 TRACE

VMM 04/03/98 1000 119398 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes.

The qualifiers in this report are defined as follows:

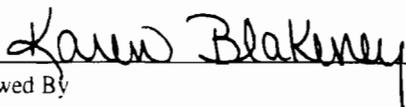
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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.

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 Reviewed By



QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9804024%

Report Date: April 08, 1998

Page 1 of 2

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
<b>Metals Analysis</b>													
QC497516	BLANK	119394											
Lead						107	ug/kg				MBL	04/03/98	2352
QC497521	BLANK	119395											
Lead						224	ug/kg				MBL	04/05/98	1257
QC497526	BLANK	119396											
Lead						32.7	ug/kg				MBL	04/05/98	1600
QC497531	BLANK	119397											
Lead						42.4	ug/kg				MBL	04/05/98	1853
QC497536	BLANK	119398											
Lead						162	ug/kg				MBL	04/06/98	1709
QC497517	LCS	119394											
Lead			135000			130000	ug/kg		96.4	(77.1 - 116.)	MBL	04/03/98	2357
QC497522	LCS	119395											
Lead			129000			139000	ug/kg		108	(77.1 - 116.)	MBL	04/05/98	1302
QC497527	LCS	119396											
Lead			134000			122000	ug/kg		90.9	(77.1 - 116.)	MBL	04/05/98	1605
QC497532	LCS	119397											
Lead			129000			124000	ug/kg		96.0	(77.1 - 116.)	MBL	04/05/98	1858
QC497537	LCS	119398											
Lead			132000			128000	ug/kg		97.3	(77.1 - 116.)	MBL	04/06/98	1714
QC497519	9804024-07MS	119394											
Lead			48500	3770		55300	ug/kg		106	(56.3 - 135.)	MBL	04/04/98	0217
QC497524	9804024-27MS	119395											
Lead			48500	938		49800	ug/kg		101	(56.3 - 135.)	MBL	04/05/98	1533
QC497529	9804024-47MS	119396											
Lead			46700	10300		56400	ug/kg		98.7	(56.3 - 135.)	MBL	04/05/98	1825
QC497534	9804024-67MS	119397											
Lead			49500	26600		69300	ug/kg		86.3	(56.3 - 135.)	MBL	04/05/98	2119
QC497539	9804024-87MS	119398											
Lead			49000	11800		69000	ug/kg		117	(56.3 - 135.)	MBL	04/06/98	1946
QC497520	9804024-07MSD	119394											
Lead			49500	3770		57000	ug/kg	1.27	108	(0.00 - 34.0)	MBL	04/04/98	0223
QC497525	9804024-27MSD	119395											
Lead			46700	938		49900	ug/kg	4.04	105	(0.00 - 34.0)	MBL	04/05/98	1538
QC497530	9804024-47MSD	119396											
Lead			48500	10300		58100	ug/kg	0.202	98.5	(0.00 - 34.0)	MBL	04/05/98	1831
QC497535	9804024-67MSD	119397											
Lead			45900	26600		61500	ug/kg	12.7	76.0	(0.00 - 34.0)	MBL	04/05/98	2125
QC497540	9804024-87MSD	119398											

QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9804024%

Report Date: April 08, 1998

Page 2 of 2

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
Lead			45900	11800		57100	ug/kg	16.7	98.8	(0.00 - 34.0)	MBL	04/06/98	1952
QC497518	9804024-07SERIAL	119394											
Lead				3770		4350	ug/kg	14.3			MBL	04/04/98	0212
QC497523	9804024-27SERIAL	119395											
Lead				938		844	ug/kg	10.6			MBL	04/05/98	1528
QC497528	9804024-47SERIAL	119396											
Lead				10300		10200	ug/kg	1.19			MBL	04/05/98	1820
QC497533	9804024-67SERIAL	119397											
Lead				26600		27500	ug/kg	3.56			MBL	04/05/98	2114
QC497538	9804024-87SERIAL	119398											
Lead				11800		12500	ug/kg	5.62			MBL	04/06/98	1940

es:

The qualifiers in this report are defined as follows:

J indicates presence of analyte < RL (Report Limit)

U indicates presence of analyte < DL (Detect Limit)

n/a indicates that spike recovery limits do not apply when

sample concentration exceeds spike conc by a factor of 4 or more

11W00147

General Engineering Lab  
 2040 Savage Road  
 Charleston, South Carolina 29407  
 P.O. Box 30712  
 Charleston, South Carolina 29417  
 (803) 556-8171

# CHAIN OF CUSTODY RECORD

Page 1 of 7

9804024

Client Name/Facility Name			# OF CONTAINERS				SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods														Remarks			
SPORTEN DETCHASN			WELL	SOIL	COMP	GRAB	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	LEAD ICP METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide		Coliform - specify type		
-01	SPORT0639-1	3/31/98	0830	X	X	1							X											NBCA0025524007601
-02	SPORT0639-2	3/31/98	0835	X	X	1							X											NBCA0025524007701
-03	SPORT0639-3	3/31/98	0840	X	X	1							X											NBCA0025524007801
-04	SPORT0639-4	3/31/98	0841	X	X	1							X											NBCA0025524007901
-05	SPORT0639-5	3/31/98	0845	X	X	1							X											NBCA0025524008001
-06	SPORT0639-6	3/31/98	0850	X	X	1							X											NBCA0025524008101
-07	SPORT0639-7	3/31/98	0852	X	X	1							X											NBCA0025524008201
-08	SPORT0639-8	3/31/98	0855	X	X	1							X											NBCA0025524008301
-09	SPORT0639-9	3/31/98	0857	X	X	1							X											NBCA0025524008401
-10	SPORT0639-10	3/31/98	0900	X	X	1							X											NBCA0025524008501
-11	SPORT0639-11	3/31/98	0902	X	X	1							X											NBCA0025524008601
-12	SPORT0639-12	3/31/98	0905	X	X	1							X											NBCA0025524008701
-13	SPORT0639-13	3/31/98	0915	X	X	1							X											NBCA0025524008801
Relinquished by: <i>Michael P. Zula</i>			Date: <i>4/1/98</i>	Time: <i>1405</i>	Received by: <i>J. D. &amp; M. Green</i>				Relinquished by: <i>J. D. &amp; M. Green</i>				Date: <i>4/1/98</i>	Time: <i>1530</i>	Received by: <i>Stephanie Becken</i>									
Relinquished by: <i>Stephanie Becken</i>			Date: <i>4-1-98</i>	Time: <i>16:15</i>	Received by lab by: <i>Karen Blakemey</i>				Date: <i>4/1/98</i>	Time: <i>1615</i>	Remarks:													

CCL 32053

Remarks

White = sample collector    Yell w = file    Pink = with report

# CHAIN OF CUSTODY RECORD

Client Name/Facility Name SPORTEN DET CHASN							SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods															Use F or P in the boxes to indicate whether sample was filtered and/or preserved	
Collected by/Company SPORTEN DET CHASN							pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide, $\gamma$	Nitrite/Nitrate	VOC - Specify Method required	LEAD METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type		
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS																Remarks
-14	SPORT0639-14	3/31/98	0950	X	X		1					X											NBCA002552008901
-15	SPORT0639-15	3/31/98	1000	X	X		1					X											NBCA002552009001
-16	SPORT0639-16	3/31/98	1002	X	X		1					X											NBCA002552009101
-17	SPORT0639-17	3/31/98	1005	X	X		1					X											NBCA002552009201
-18	SPORT0639-18	3/31/98	1010	X	X		1					X											NBCA002552009301
-19	SPORT0639-19	3/31/98	1012	X	X		1					X											NBCA002552009401
-20	SPORT0639-20	3/31/98	1015	X	X		1					X											NBCA002552009501
-21	SPORT0639-21	3/31/98	1017	X	X		1					X											NBCA002552009501
-22	SPORT0639-22	3/31/98	1030	X	X		1					X											NBCA002552009601
-23	SPORT0639-23	3/31/98	1035	X	X		1					X											NBCA002552009701
-24	SPORT0639-24	3/31/98	1040	X	X		1					X											NBCA002552009801
-25	SPORT0639-25	3/31/98	1042	X	X		1					X											NBCA002552009901
-26	SPORT0639-26	3/31/98	1045	X	X		1					X											NBCA002552010001
Relinquished by:			Date:	Time:	Received by:			Relinquished by:			Date:	Time:	Received by:										
Michael T. White			4/1/98	1400	Stephanie Beckton			Stephanie Beckton			4/1/98	1530	Stephanie Beckton										
Relinquished by:			Date:	Time:	Received by lab by:			Date:	Time:	Remarks:													
Stephanie Beckton			4-1-98	16:15	Karen Blakemey			4-1-98	1615														

White = sample collector    Yell w = file    Pink = with report

# CHAIN OF CUSTODY RECORD

Client Name/Facility Name							SAMPLE ANALYSIS REQUIRED (x) - use #marks area to specify specific compounds or methods														Use F or P in the boxes to indicate whether sample was filtered and/or preserved		
SPORTENDET CHASN																							
Collected by/Company							# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method Required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Remarks
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB																	
-27	SPORT0639-27	3/31/98	1100	X	X	1							X										NBCA002552010101
-28	SPORT0639-28	3/31/98	1102	X	X	1							X										NBCA002552010201
-29	SPORT0639-29	3/31/98	1105	X	X	1							X										NBCA002552010301
-30	SPORT0639-30	3/31/98	1110	X	X	1							X										NBCA002552010401
-31	SPORT0639-31	3/31/98	1115	X	X	1							X										NBCA002552010501
-32	SPORT0639-32	3/31/98	1120	X	X	1							X										NBCA0025524010601
-33	SPORT0639-33	3/31/98	1125	X	X	1							X										NBCA0025524010701
-34	SPORT0639-34	3/31/98	1300	X	X	1							X										NBCA0025524010801
-35	SPORT0639-35	3/31/98	1305	X	X	1							X										NBCA0025524010901
-36	SPORT0639-36	3/31/98	1310	X	X	1							X										NBCA0025524011001
-37	SPORT0639-37	3/31/98	1320	X	X	1							X										NBCA0025527019601
-38	SPORT0639-38	3/31/98	1322	X	X	1							X										NBCA0025527019701
-39	SPORT0639-39	3/31/98	1324	X	X	1							X										NBCA0025527019801
Relinquished by:			Date:	Time:	Received by:			Relinquished by:			Date:	Time:	Received by:										
Michael P. ...			4/1/98	1405	Fred B. ...			Fred B. ...			4/1/98	1530	Debra ...										
Relinquished by:			Date:	Time:	Received by lab by:			Date:	Time:	Remarks:													
Debra ...			4-1-98	16:15	Karen Blakney			4-1-98	16:15														

# CHAIN OF CUSTODY RECORD

Client Name/Facility Name						SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods																Use F or P in the boxes to indicate whether sample was filtered and/or preserved
SPORT ENV DET CHASCO																						
Collected by/Company						# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	ICP - specify METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Remarks
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP																	
<del>40</del> SPORT0639-40	3/31/98	1324	X	X		1						X										C 27% NBCA0025527019901
<del>41</del> SPORT0639-41	3/31/98	1325	X	X		1						X										NBCA0025527019901
<del>42</del> SPORT0639-42	3/31/98	1327	X	X		1						X										NBCA0025527020201
<del>43</del> SPORT0639-43	3/31/98	1328	X	X		1						X										NBCA0025527020301
<del>44</del> SPORT0639-44	3/31/98	1330	X	X		1						X										NBCA0025527020401
<del>45</del> SPORT0639-45	3/31/98	1335	X	X		1						X										NBCA0025527020501
<del>46</del> SPORT0639-46	3/31/98	1337	X	X		1						X										NBCA0025527020601
<del>47</del> SPORT0639-47	3/31/98	1340	X	X		1						X										NBCA0025527020701
<del>48</del> SPORT0639-48	3/31/98	1345	X	X		1						X										NBCA0025527020801
<del>49</del> SPORT0639-49	3/31/98	1400	X	X		1						X										NBCA0025527020901
<del>50</del> SPORT0639-50	3/31/98	1402	X	X		1						X										NBCA0025527021001
<del>51</del> SPORT0639-51	3/31/98	1405	X	X		1						X										NBCA0025527021101
<del>52</del> SPORT0639-52	3/31/98	1425	X	X		1						X										NBCA0025527021201
Relinquished by:			Date:	Time:	Received by:			Relinquished by:			Date:	Time:	Received by:									
Michael T. L. C.			4/1/98	1405	Fred R. Kite			Fred R. Kite			4/1/98	1500	Fred R. Kite									
Septacilio Baderin			4-1-98	16:15	Karen Blakemey			Karen Blakemey			4-1-98	1615	Remarks:									

White = sample collector    Yell w = file    Pink = with report

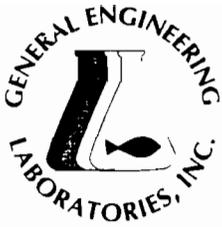
# CHAIN OF CUSTODY RECORD

Client Name/Facility Name				SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods															Use F or P in the boxes to indicate whether sample was filtered and/or preserved			
SPORT ENV DET CHASN																						
Collected by/Company																						
SPORT ENV DET CHASN																						
SAMPLE ID	DATE	TIME	# OF CONTAINERS			pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method Required	PES/LEAD METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Remarks	
			WELL	SOIL	COMP																	GRAB
-53	SPORT0639-53	3/31/98	1428	X	X	1						X										NBCA0025527021301
-54	SPORT0639-54	3/31/98	1430	X	X	1						X										NBCA0025527021401
-55	SPORT0639-55	3/31/98	1431	X	X	1						X										NBCA0025527021501
-56	SPORT0639-56	3/31/98	1432	X	X	1						X										NBCA0025527021601
-57	SPORT0639-57	3/31/98	1435	X	X	1						X										NBCA0025527021701
-58	SPORT0639-58	3/31/98	1437	X	X	1						X										NBCA0025527021801
-59	SPORT0639-59	3/31/98	1440	X	X	1						X										NBCA0025527021901
-60	SPORT0639-60	4/1/98	0825	X	X	1						X										NBCA0025528022601
-61	SPORT0639-61	4/1/98	0835	X	X	1						X										NBCA0025528022601 Comp
-62	SPORT0639-62	4/1/98	0830	X	X	1						X										NBCA0025528022901
-63	SPORT0639-63	4/1/98	0835	X	X	1						X										NBCA0025528022801
-64	SPORT0639-64	4/1/98	0845	X	X	1						X										NBCA0025528022701
-65	SPORT0639-65	4/1/98	0847	X	X	1						X										NBCA0025528023401
Relinquished by:		Date:	Time:	Received by:		Relinquished by:		Date:	Time:	Received by:												
[Signature]		4/1/98	1405	Fred & McLean		Fred & McLean		4/1/98	1530	Stephanie Beckler												
Relinquished by:		Date:	Time:	Received by lab by:		Date:	Time:	Remarks:														
Stephanie Beckler		4-1-98	16:15	Karen Blakemey		4-1-98	16:15															

White = sample collector    Yellow = file    Pink = with report







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SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 10, 1998

Page 1 of 1

Sample ID : SPORT0642-1  
 Lab ID : 9804061-01  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		108000	65.8	485	ug/kg	2.0	MBL	04/08/98	1608	119445	!

**The following prep procedures were performed:**

TRACE

FGD 04/06/98 1600 119445 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

Notes:

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cc: NPWC00197

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Sample ID : SPORT0642-3  
 Lab ID : 9804061-03  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		5040	65.8	485	ug/kg	2.0	MBL	04/08/98	1618	119445	1

**The following prep procedures were performed:**

TRACE FGD 04/06/98 1600 119445 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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 North Charleston, South Carolina 29405-2106

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Project Description: SUPSHIP-Portsmouth Detachment

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Page 1 of 1

Sample ID : SPORT0642-4  
 Lab ID : 9804061-04  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		15600	62.8	463	ug/kg	2.0	MBL	04/08/98	1624	119445	1

**The following prep procedures were performed:**

TRACE

FGD 04/06/98 1600 119445 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes:**

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Sample ID : SPORT0642-5  
 Lab ID : 9804061-05  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		7960	66.4	490	ug/kg	2.0	MBL	04/08/98	1629	119445	1

**The following prep procedures were performed:**

TRACE

FGD 04/06/98 1600 119445 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes:**

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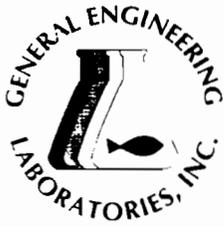
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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cc: NPWC00197

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Sample ID : SPORT0642-6  
Lab ID : 9804061-06  
Matrix : Soil  
Date Collected : 04/01/98  
Date Received : 04/02/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		6080	64.5	476	ug/kg	2.0	MBL	04/08/98	1634	119445	1

**The following prep procedures were performed:**

TRACE

FGD 04/06/98 1600 119445 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
M 2 EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

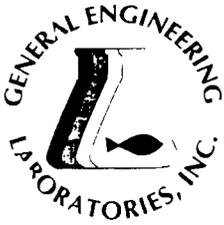
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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cc: NPWC00197

Report Date: April 10, 1998

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Sample ID : SPORT0642-7  
 Lab ID : 9804061-07  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		7540	66.4	490	ug/kg	2.0	MBL	04/08/98	1640	119445	1

**The following prep procedures were performed:**

TRACE FGD 04/06/98 1600 119445 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes.

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cc: NPWC00197

Report Date: April 10, 1998

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Sample ID : SPORT0642-8  
 Lab ID : 9804061-08  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		19600	64.0	472	ug/kg	2.0	MBL	04/08/98	1703	119445	1

### The following prep procedures were performed:

TRACE

FGD 04/06/98 1600 119445 2

### M = Method

### Method-Description

M 1	EPA 6010A
M 2	EPA 3050

### Notes:

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cc: NPWC00197

Report Date: April 10, 1998

Page 1 of 1

Sample ID : SPORT0642-9  
 Lab ID : 9804061-09  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		22900	65.2	481	ug/kg	2.0	MBL	04/08/98	1708	119445	1

**The following prep procedures were performed:**

TRACE FGD 04/06/98 1600 119445 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes**

The qualifiers in this report are defined as follows.

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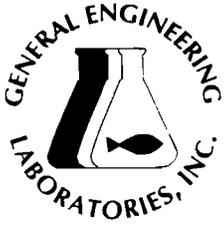
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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 North Charleston, South Carolina 29405-2106

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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

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Page 1 of 1

Sample ID : SPORT0642-10  
 Lab ID : 9804061-10  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		11800	64.5	476	ug/kg	2.0	MBL	04/08/98	1758	119446	1

**The following prep procedures were performed:**

TRACE

FGD 04/07/98 0900 119446 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

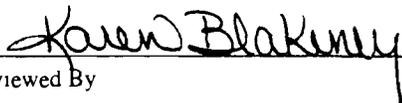
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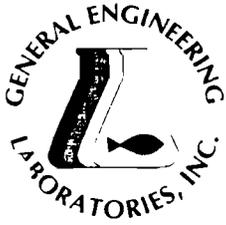
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cc: NPWC00197

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Page 1 of 1

Sample ID : SPORT0642-11  
 Lab ID : 9804061-11  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		9160	64.0	472	ug/kg	2.0	MBL	04/08/98	1803	119446	1

### The following prep procedures were performed:

TRACE

FGD 04/07/98 0900 119446 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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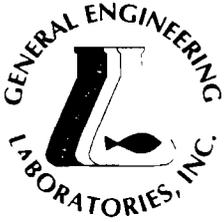
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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

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Page 1 of 1

Sample ID : SPORT0642-12  
 Lab ID : 9804061-12  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		6840	66.4	490	ug/kg	2.0	MBL	04/08/98	1808	119446	1

**The following prep procedures were performed:**

TRACE

FGD 04/07/98 0900 119446 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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TN	02934	02934

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 10, 1998

Page 1 of 1

Sample ID : SPORT0642-13  
 Lab ID : 9804061-13  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		22800	65.8	485	ug/kg	2.0	MBL	04/08/98	1814	119446	1

**The following prep procedures were performed:**

TRACE FGD 04/07/98 0900 119446 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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.

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 10, 1998

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Sample ID : SPORT0642-14  
Lab ID : 9804061-14  
Matrix : Soil  
Date Collected : 04/01/98  
Date Received : 04/02/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		7190	64.5	476	ug/kg	2.0	MBL	04/08/98	1819	119446	1

**The following prep procedures were performed:**

TRACE

FGD 04/07/98 0900 119446 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

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SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 10, 1998

Page 1 of 1

Sample ID : SPORT0642-15  
 Lab ID : 9804061-15  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		7670	65.2	481	ug/kg	2.0	MBL	04/08/98	1825	119446	1

**The following prep procedures were performed:**

TRACE

FGD 04/07/98 0900 119446 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

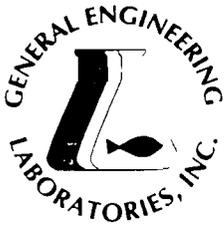
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: April 10, 1998

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Sample ID : SPORT0642-16  
 Lab ID : 9804061-16  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		5090	64.5	476	ug/kg	2.0	MBL	04/08/98	1830	119446	1

The following prep procedures were performed:  
 TRACE

FGD 04/07/98 0900 119446 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes:

The qualifiers in this report are defined as follows:

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

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

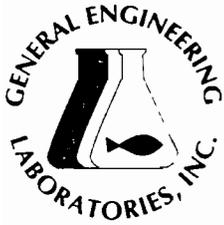
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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Contact: Mr. Bill Hiers

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cc: NPWC00197

Report Date: April 10, 1998

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Sample ID : SPORT0642-17  
 Lab ID : 9804061-17  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		5040	64.0	472	ug/kg	2.0	MBL	04/08/98	1835	119446	1

The following prep procedures were performed:  
 TRACE

FGD 04/07/98 0900 119446 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes:

The qualifiers in this report are defined as follows:

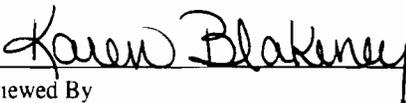
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: April 10, 1998

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Sample ID : SPORT0642-18  
 Lab ID : 9804061-18  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		6430	62.8	463	ug/kg	2.0	MBL	04/08/98	1851	119446	1

**The following prep procedures were performed:**

TRACE

FGD 04/07/98 0900 119446 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

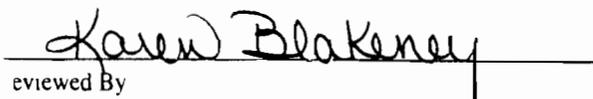
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 10, 1998

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Sample ID : SPORT0642-19  
 Lab ID : 9804061-19  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		10800	65.2	481	ug/kg	2.0	MBL	04/08/98	1857	119446	1

**The following prep procedures were performed:**

TRACE

FGD 04/07/98 0900 119446 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes.**

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Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: April 10, 1998

Page 1 of 1

Sample ID : SPORT0642-20  
 Lab ID : 9804061-20  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		11300	63.3	467	ug/kg	2.0	MBL	04/08/98	1902	119446	1

**The following prep procedures were performed:**

TRACE

FGD 04/07/98 0900 119446 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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 North Charleston, South Carolina 29405-2106

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cc: NPWC00197

Report Date: April 10, 1998

Page 1 of 1

Sample ID : SPORT0642-21  
 Lab ID : 9804061-21  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		56800	64.0	472	ug/kg	2.0	MBL	04/08/98	1907	119446	1

**The following prep procedures were performed:**

TRACE

FGD 04/07/98 0900 119446 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

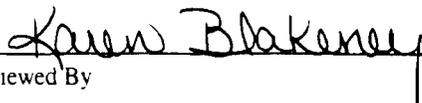
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

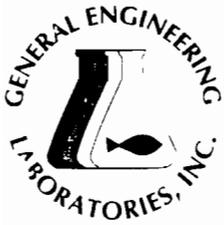
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 10, 1998

Page 1 of 1

Sample ID : SPORT0642-22  
Lab ID : 9804061-22  
Matrix : Soil  
Date Collected : 04/01/98  
Date Received : 04/02/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		10800	63.3	467	ug/kg	2.0	MBL	04/08/98	1913	119446	1

**The following prep procedures were performed:**

TRACE

FGD 04/07/98 0900 119446 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

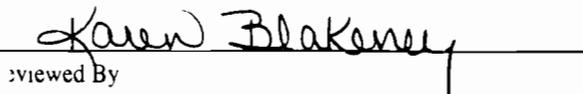
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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TN	02934	02934

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 10, 1998

Page 1 of 1

Sample ID : SPORT0642-23  
 Lab ID : 9804061-23  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		12800	64.5	476	ug/kg	2.0	MBL	04/08/98	1918	119446	1

**The following prep procedures were performed:**

TRACE

FGD 04/07/98 0900 119446 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

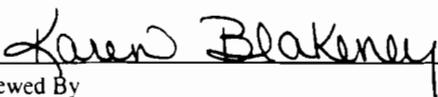
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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Project Description: SUPSHIP-Portsmouth Detachment

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Sample ID : SPORT0642-24  
 Lab ID : 9804061-24  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		8170	65.2	481	ug/kg	2.0	MBL	04/08/98	1923	119446	1

**The following prep procedures were performed:**

TRACE FGD 04/07/98 0900 119446 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes.

The qualifiers in this report are defined as follows:

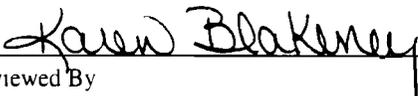
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 10, 1998

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Sample ID : SPORT0642-25  
 Lab ID : 9804061-25  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		7860	65.8	485	ug/kg	2.0	MBL	04/08/98	1929	119446	1

**The following prep procedures were performed:**

TRACE FGD 04/07/98 0900 119446 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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*Karen Blakeney*  
 \_\_\_\_\_  
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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

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Sample ID : SPORT0642-26  
 Lab ID : 9804061-26  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		12600	65.8	485	ug/kg	2.0	MBL	04/08/98	1934	119446	1

**The following prep procedures were performed:**

TRACE

FGD 04/07/98 0900 119446 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 10, 1998

Page 1 of 1

Sample ID : SPORT0642-27  
 Lab ID : 9804061-27  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		120000	64.5	476	ug/kg	2.0	MBL	04/08/98	1940	119446	1

**The following prep procedures were performed:**

TRACE

FGD 04/07/98 0900 119446 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

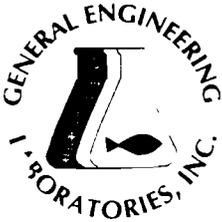
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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 Reviewed By





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### Laboratory Certifications

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FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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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: NPWC00197

Report Date: April 10, 1998

Page 1 of 1

Sample ID : SPORT0642-28  
 Lab ID : 9804061-28  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		9120	64.5	476	ug/kg	2.0	MBL	04/08/98	1956	119446	1

**The following prep procedures were performed:**

TRACE

FGD 04/07/98 0900 119446 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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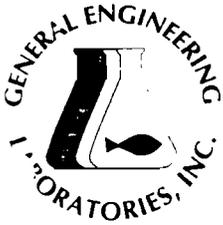
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TN	02934	02934

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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 10, 1998

Page 1 of 1

Sample ID : SPORT0642-29  
 Lab ID : 9804061-29  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		36500	64.0	472	ug/kg	2.0	MBL	04/08/98	2001	119446	1

**The following prep procedures were performed:**

TRACE

FGD 04/07/98 0900 119446 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

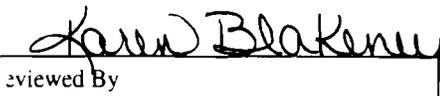
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J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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

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FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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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: NPWC00197

Report Date: April 10, 1998

Page 1 of 1

Sample ID : SPORT0642-30  
 Lab ID : 9804061-30  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		40400	64.0	472	ug/kg	2.0	MBL	04/08/98	1304	119532	1

**The following prep procedures were performed:**

TRACE

FGD 04/07/98 1400 119532 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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*Karen Blakeney*  
 Reviewed By



QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9804061%

Report Date: April 10, 1998

Page 1 of 1

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
<b>Metals Analysis</b>													
QC497687	BLANK	119445											
Lead						85.6	ug/kg				MBL	04/08/98	1443
QC497692	BLANK	119446											
Lead						56.5	ug/kg				MBL	04/08/98	1746
QC498016	BLANK	119532											
Lead						-24.8	ug/kg				MBL	04/08/98	1043
QC497688	LCS	119445											
Lead			132000			121000	ug/kg		91.4	(77.1 - 116.)	MBL	04/08/98	1449
QC497693	LCS	119446											
Lead			132000			125000	ug/kg		94.7	(77.1 - 116.)	MBL	04/08/98	1751
QC498017	LCS	119532											
Lead			134000			127000	ug/kg		94.6	(77.1 - 116.)	MBL	04/08/98	1048
QC497690	9804061-09MS	119445											
Lead			47600	22900		52000	ug/kg		61.0	(56.3 - 135.)	MBL	04/08/98	1719
QC497695	9804061-29MS	119446											
Lead			47600	36500		73400	ug/kg		77.5	(56.3 - 135.)	MBL	04/08/98	2012
QC498019	9804097-15MS	119532											
Lead			47600	5940		59400	ug/kg		96.5	(56.3 - 135.)	MBL	04/08/98	1333
QC497691	9804061-09MSD	119445											
Lead			47600	22900		58100	ug/kg	19.2	74.0	(0.00 - 34.0)	MBL	04/08/98	1724
QC497696	9804061-29MSD	119446											
Lead			48100	36500		74700	ug/kg	2.44	79.4	(0.00 - 34.0)	MBL	04/08/98	2017
QC498020	9804097-15MSD	119532											
Lead			47600	5940		59800	ug/kg	0.854	97.3	(0.00 - 34.0)	MBL	04/08/98	1413
QC497689	9804061-09SERIAL	119445											
Lead				22900		24100	ug/kg	4.98			MBL	04/08/98	1714
QC497694	9804061-29SERIAL	119446											
Lead				36500		37600	ug/kg	2.99			MBL	04/08/98	2006
QC498018	9804097-15SERIAL	119532											
Lead				5940		6460	ug/kg	8.30			MBL	04/08/98	1327

Notes:

The qualifiers in this report are defined as follows:

J indicates presence of analyte < RL (Report Limit)

U indicates presence of analyte < DL (Detect Limit)

a indicates that spike recovery limits do not apply when sample concentration exceeds spike conc by a factor of 4 or more

NP: 200197

General Engineering Lab, Inc.  
 2040 Savage Road  
 Charleston, South Carolina 29407  
 P.O. Box 30712  
 Charleston, South Carolina 29417  
 (803) 556-8171

# CHAIN OF CUSTODY RECORD

Page 1 of 3

9204061

Client Name/Facility Name				SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods														Use F or P in the boxes to indicate whether sample was filtered and/or preserved								
SPORTENDETHASN																		←								
Collected by/Company																		CCL 32069								
SPORTENDETHASN																		Remarks								
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type				
01 Sport 642-1	4-1-98	13:33	X				1							X												NBCA002552826301
02 Sport 642-2	4-1-98	13:33	X				1							X												NBCA002552826201
03 Sport 642-3	4-1-98	13:34	X				1							X												NBCA002552825301
04 Sport 642-4	4-1-98	13:43	X				1							X												NBCA002552826101
05 Sport 642-5	4-1-98	13:43	X				1							X												NBCA002552826001
06 Sport 642-6	4-1-98	13:46	X				1							X												NBCA002552825001
07 Sport 642-7	4-1-98	13:46	X				1							X												NBCA002552825201
08 Sport 642-8	4-1-98	13:50	X				1							X												NBCA002552825901
09 Sport 642-9	4-1-98	13:50	X				1							X												NBCA002552825801
10 Sport 642-10	4-1-98	13:57	X				1							X												NBCA002552825101
11 Sport 642-11	4-1-98	14:10	X				1							X												NBCA002552825701
12 Sport 642-12	4-1-98	14:10	X				1							X												NBCA002552827301
13 Sport 642-13	4-1-98	14:19	X				1							X												NBCA002552826501
Relinquished by: <i>Math W. Justice</i>		Date: 4/2/98	Time: 07:44	Received by: <i>Jul 2 McLean</i>				Relinquished by: <i>Jul 2 McLean</i>				Date: 4/4/98	Time: 1455	Received by: <i>Karen Blakemey</i>												
Relinquished by: <i>Karen Blakemey</i>		Date: 4/2/98	Time: 1520	Received by lab by: <i>Donna Franco</i>				Date: 4/2/98	Time: 1500	Remarks:																

White = sample collector    Yellow = file    Pink = with report

# CHAIN OF CUSTODY RECORD

4204061

Client Name/Facility Name				SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods														Use F or P in the boxes to indicate whether sample was filtered and/or preserved	
SPORTENDET CHASN				pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfate	Nitrite/Nitrate	VOC - Specify Method Required	Semi-VOCs - Specify Method Required	Pesticide	Herbicide	Total Phosol	Acid Extractables	B/N Extractables	PCB's	Cyanide		Coliforms - specify type
SAMPLE ID	DATE	TIME	# OF CONTAINERS																
Spot 0642-14	4-1-98	14:19	1						X										NBC A002552827001
Spot 0642-15	4-1-98	14:44	1						X										NBC A002552826801
Spot 0642-16	4-1-98	14:44	1						X										NBC A002552824901
Spot 0642-17	4-1-98	14:44	1						X										NBC A002552827601
Spot 0642-18	4-1-98	14:44	1						X										NBC A002552827701
Spot 0642-19	4-1-98	15:00	1						X										NBC A002552827401
Spot 0642-20	4-1-98	15:00	1						X										NBC A002552827501
Spot 0642-21	4-1-98	15:00	1						X										NBC A0025528260101
Spot 0642-22	4-1-98	15:15	1						X										NBC A002552828201
Spot 0642-23	4-1-98	15:15	1						X										NBC A002552825601
Spot 0642-24	4-1-98	15:15	1						X										NBC A002552826401
Spot 0642-25	4-1-98	15:15	1						X										NBC A002552826601
Spot 0642-26	4-1-98	16:25	1						X										NBC A002552826701
Relinquished by:		Date:	Time:	Received by:		Date:	Time:	Received by:		Date:		Time:	Received by:						
Mark W. [Signature]		4/1/98	07:44	John [Signature]		4/2/98	1520	Karen Blakney		4/2/98		1500	Remarks:						

White = sample collector    Yellow = file    Pink = with report

P. 002  
 TEL: 803-852-5812  
 GEN. ENGINEERING  
 APR - 14 98 (TUE) 09:45





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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 10, 1998

Page 1 of 1

Sample ID : SPORTO0643-1  
 Lab ID : 9804060-01  
 Matrix : Soil  
 Date Collected : 04/02/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		131000	67.8	500	ug/kg	2.0	MBL	04/08/98	1455	119445	1

**The following prep procedures were performed:**

TRACE FGD 04/06/98 1600 119445 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

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

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

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TN	02934	02934

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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 10, 1998

Page 1 of 1

Sample ID : SPORTO0643-2  
 Lab ID : 9804060-02  
 Matrix : Soil  
 Date Collected : 04/02/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		360000	65.2	481	ug/kg	2.0	MBL	04/08/98	1500	119445	1

**The following prep procedures were performed:**

TRACE

FGD 04/06/98 1600 119445 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes:**

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TN	02934	02934

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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 10, 1998

Page 1 of 1

Sample ID : SPOR00643-3  
 Lab ID : 9804060-03  
 Matrix : Soil  
 Date Collected : 04/02/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		131000	66.4	490	ug/kg	2.0	MBL	04/08/98	1506	119445	1

**The following prep procedures were performed:**

TRACE FGD 04/06/98 1600 119445 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

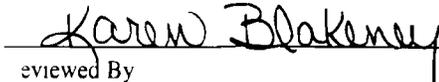
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

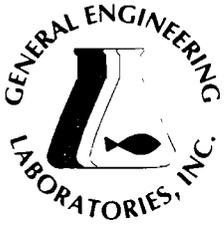
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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 10, 1998

Page 1 of 1

Sample ID : SPORTO0643-4  
 Lab ID : 9804060-04  
 Matrix : Soil  
 Date Collected : 04/02/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		862000	63.3	467	ug/kg	2.0	MBL	04/08/98	1511	119445	1

**The following prep procedures were performed:**

TRACE FGD 04/06/98 1600 119445 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

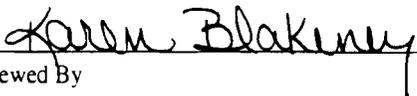
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SC	10120	10582
TN	02934	02934

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 10, 1998

Page 1 of 1

Sample ID : SPORTO0643-5  
 Lab ID : 9804060-05  
 Matrix : Soil  
 Date Collected : 04/02/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		429000	64.0	472	ug/kg	2.0	MBL	04/08/98	1516	119445	1

**The following prep procedures were performed:**

TRACE

FGD 04/06/98 1600 119445 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes.**

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FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 10, 1998

Page 1 of 1

Sample ID : SPORTO0643-6  
 Lab ID : 9804060-06  
 Matrix : Soil  
 Date Collected : 04/02/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		47000	63.3	467	ug/kg	2.0	MBL	04/08/98	1522	119445	1

**The following prep procedures were performed:**

TRACE

FGD 04/06/98 1600 119445 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

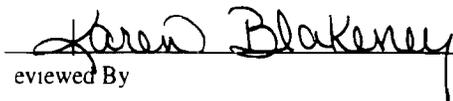
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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.

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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: NPWC00197

Report Date: April 10, 1998

Page 1 of 1

Sample ID : SPOR00643-7  
 Lab ID : 9804060-07  
 Matrix : Soil  
 Date Collected : 04/02/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		308000	64.0	472	ug/kg	2.0	MBL	04/08/98	1527	119445	1

**The following prep procedures were performed:**

TRACE FGD 04/06/98 1600 119445 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

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 North Charleston, South Carolina 29405-2106

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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 10, 1998

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Sample ID : SPORTO0643-8  
 Lab ID : 9804060-08  
 Matrix : Soil  
 Date Collected : 04/02/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		12700000	3230	23800	ug/kg	100	MBL	04/08/98	1658	119445	1

**The following prep procedures were performed:**

TRACE FGD 04/06/98 1600 119445 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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cc: NPWC00197

Report Date: April 10, 1998

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Sample ID : SPORTO0643-9  
 Lab ID : 9804060-09  
 Matrix : Soil  
 Date Collected : 04/02/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		3590000	65.8	485	ug/kg	2.0	MBL	04/08/98	1552	119445	1

**The following prep procedures were performed:**

TRACE FGD 04/06/98 1600 119445 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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cc: NPWC00197

Report Date: April 10, 1998

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Sample ID : SPOR00643-10  
 Lab ID : 9804060-10  
 Matrix : Soil  
 Date Collected : 04/02/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		30000	65.8	485	ug/kg	2.0	MBL	04/08/98	1557	119445	1

**The following prep procedures were performed:**

TRACE FGD 04/06/98 1600 119445 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 10, 1998

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Sample ID : SPORTO0643-11  
 Lab ID : 9804060-11  
 Matrix : Soil  
 Date Collected : 04/02/98  
 Date Received : 04/02/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		54000	67.1	495	ug/kg	2.0	MBL	04/08/98	1602	119445	1

### The following prep procedures were performed:

TRACE FGD 04/06/98 1600 119445 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes:

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9804060%

Report Date: April 10, 1998

Page 1 of 1

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
<b>Metals Analysis</b>													
QC497687	BLANK	119445											
Lead						85.6	ug/kg				MBL	04/08/98	1443
QC497688	LCS	119445											
Lead			132000			121000	ug/kg		91.4	(77.1 - 116.)	MBL	04/08/98	1449
QC497690	9804061-09MS	119445											
Lead			47600	22900		52000	ug/kg		61.0	(56.3 - 135.)	MBL	04/08/98	1719
QC497691	9804061-09MSD	119445											
Lead			47600	22900		58100	ug/kg	19.2	74.0	(0.00 - 34.0)	MBL	04/08/98	1724
QC497689	9804061-09SERIAL	119445											
Lead				22900		24100	ug/kg	4.98			MBL	04/08/98	1714

Notes:

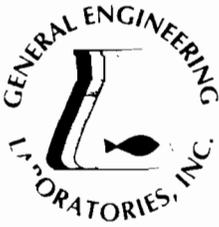
The qualifiers in this report are defined as follows:

J indicates presence of analyte < RL (Report Limit)

U indicates presence of analyte < DL (Detect Limit)

n/a indicates that spike recovery limits do not apply when sample concentration exceeds spike conc by a factor of 4 or more





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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 24, 1998

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Sample ID : SPORT0667-1  
 Lab ID : 9804579-01  
 Matrix : Soil  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		7660	65.8	485	ug/kg	2.0	MBL	04/23/98	1114	120652	1

**The following prep procedures were performed:**

TRACE

VMM 04/22/98 1600 120652 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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

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*Karen Blakeney*  
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cc: NPWC00197

Report Date: April 24, 1998

Page 1 of 1

Sample ID : SPORT0667-1  
 Lab ID : 9804579-02  
 Matrix : TCLP  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		28.2	3.39	25.0	ug/l	5.0	MBL	04/24/98	1116	120626	1

### The following prep procedures were performed:

TCLP Prep for Metals JL 04/22/98 1840 120655 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 1311

### Notes:

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 24, 1998

Page 1 of 1

Sample ID : SPORT0667-2  
 Lab ID : 9804579-03  
 Matrix : Soil  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		5680	65.8	485	ug/kg	2.0	MBL	04/23/98	1119	120652	1

**The following prep procedures were performed:**

TRACE

VMM 04/22/98 1600 120652 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes.**

The qualifiers in this report are defined as follows:

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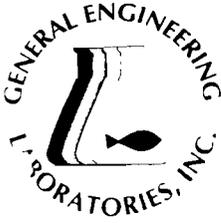
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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*Karen Blakeney*  
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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 24, 1998

Page 1 of 1

Sample ID : SPORT0667-3  
 Lab ID : 9804579-04  
 Matrix : Soil  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		5270000	332	2450	ug/kg	10.	MBL	04/23/98	1359	120652	1

**The following prep procedures were performed:**

TRACE

VMM 04/22/98 1600 120652 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes.

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Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: April 24, 1998

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Sample ID : SPORT0667-3  
 Lab ID : 9804579-05  
 Matrix : TCLP  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		25900	3.39	25.0	ug/l	5.0	MBL	04/24/98	1122	120626	1

### The following prep procedures were performed:

TCLP Prep for Metals JL 04/22/98 1840 120655 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 1311

### Notes:

The qualifiers in this report are defined as follows:

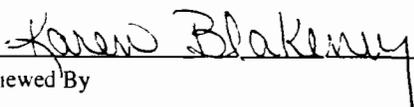
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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

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Sample ID : SPORT0667-4  
 Lab ID : 9804579-06  
 Matrix : Soil  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		446000	66.4	490	ug/kg	2.0	MBL	04/23/98	1404	120652	1

### The following prep procedures were performed:

TRACE

VMM 04/22/98 1600 120652 2

### M = Method

### Method-Description

M 1 EPA 6010A  
 M 2 EPA 3050

### Notes.

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Sample ID : SPORT0667-5  
 Lab ID : 9804579-07  
 Matrix : Soil  
 Date Collected : 04/21/98  
 Date Received : 04/22/98  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		83400	65.2	481	ug/kg	2.0	MBL	04/23/98	1135	120652	1

**The following prep procedures were performed:**

TRACE

VMM 04/22/98 1600 120652 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

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Sample ID : SPORT0639-17  
 Lab ID : 9804024-17  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		390000	66.4	490	ug/kg	2.0	MBL	04/05/98	1418	119395	1

**The following prep procedures were performed:**

TRACE VMM 04/02/98 1300 119395 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes.**

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NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

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Sample ID : SPORT0639-18  
 Lab ID : 9804024-18  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		46800	65.2	481	ug/kg	2.0	MBL	04/05/98	1423	119395	1

### The following prep procedures were performed:

TRACE

VMM 04/02/98 1300 119395 2

### M = Method

### Method-Description

M 1	EPA 6010A
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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

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.

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Report Date: April 08, 1998

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Sample ID : SPORT0639-19  
 Lab ID : 9804024-19  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		46600	66.4	490	ug/kg	2.0	MBL	04/05/98	1429	119395	1

### The following prep procedures were performed:

TRACE

VMM 04/02/98 1300 119395 2

### M = Method

### Method-Description

M 1	EPA 6010A
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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

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

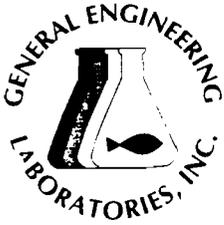
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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Sample ID : SPORT0639-20  
 Lab ID : 9804024-20  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		839000	62.8	463	ug/kg	2.0	MBL	04/05/98	1434	119395	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119395 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

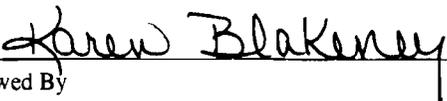
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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Sample ID : SPORT0639-21  
 Lab ID : 9804024-21  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		781000	63.3	467	ug/kg	2.0	MBL	04/05/98	1439	119395	1

**The following prep procedures were performed:**

TRACE VMM 04/02/98 1300 119395 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

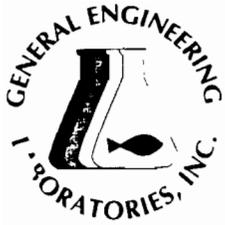
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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Report Date: April 08, 1998

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Sample ID : SPORT0639-22  
 Lab ID : 9804024-22  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		187000	64.5	476	ug/kg	2.0	MBL	04/05/98	1445	119395	1

**The following prep procedures were performed:**

TRACE VMM 04/02/98 1300 119395 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes.

The qualifiers in this report are defined as follows:

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

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

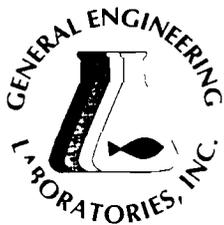
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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Sample ID : SPORT0639-23  
Lab ID : 9804024-23  
Matrix : Soil  
Date Collected : 03/31/98  
Date Received : 04/01/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		2230000	64.0	472	ug/kg	2.0	MBL	04/05/98	1450	119395	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119395 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
M 2 EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

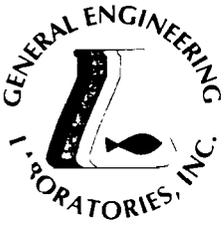
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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Sample ID : SPORT0639-24  
 Lab ID : 9804024-24  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		5220	65.2	481	ug/kg	2.0	MBL	04/05/98	1456	119395	1

**The following prep procedures were performed:**

TRACE VMM 04/02/98 1300 119395 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

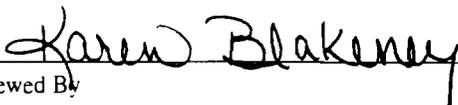
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-25  
Lab ID : 9804024-25  
Matrix : Soil  
Date Collected : 03/31/98  
Date Received : 04/01/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		172000	64.0	472	ug/kg	2.0	MBL	04/05/98	1501	119395	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119395 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
M 2 EPA 3050

**Notes:**

The qualifiers in this report are defined as follows.

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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: April 08, 1998

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Sample ID : SPORT0639-26  
Lab ID : 9804024-26  
Matrix : Soil  
Date Collected : 03/31/98  
Date Received : 04/01/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		536	63.3	467	ug/kg	2.0	MBL	04/05/98	1517	119395	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119395 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
M 2 EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

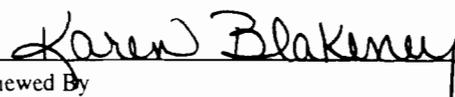
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

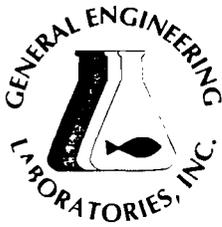
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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Sample ID : SPORT0639-27  
 Lab ID : 9804024-27  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		938	62.8	463	ug/kg	2.0	MBL	04/05/98	1522	119395	1

**The following prep procedures were performed:**

TRACE VMM 04/02/98 1300 119395 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: April 08, 1998

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Sample ID : SPORT0639-28  
 Lab ID : 9804024-28  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		78000	64.0	472	ug/kg	2.0	MBL	04/05/98	1611	119396	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119396 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

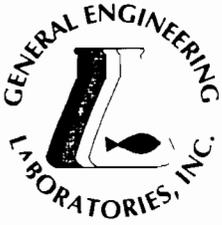
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Sample ID : SPORT0639-29  
 Lab ID : 9804024-29  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		7510	64.0	472	ug/kg	2.0	MBL	04/05/98	1617	119396	1

**The following prep procedures were performed:**

TRACE VMM 04/02/98 1300 119396 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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Sample ID : SPORT0639-30  
 Lab ID : 9804024-30  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		6510	63.3	467	ug/kg	2.0	MBL	04/05/98	1622	119396	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119396 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Sample ID : SPORT0639-31  
 Lab ID : 9804024-31  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		19800	62.8	463	ug/kg	2.0	MBL	04/05/98	1627	119396	1

**The following prep procedures were performed:**

TRACE VMM 04/02/98 1300 119396 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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*Karen Blakeney*  
 \_\_\_\_\_  
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# GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-32  
 Lab ID : 9804024-32  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		8190	62.2	459	ug/kg	2.0	MBL	04/05/98	1633	119396	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119396 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

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SC	10120	10582
TN	02934	02934

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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-33  
 Lab ID : 9804024-33  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		543	62.8	463	ug/kg	2.0	MBL	04/05/98	1638	119396	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119396 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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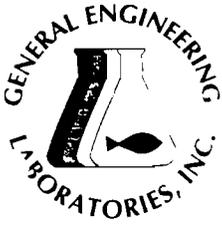
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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-34  
 Lab ID : 9804024-34  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		705	65.2	481	ug/kg	2.0	MBL	04/05/98	1643	119396	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119396 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

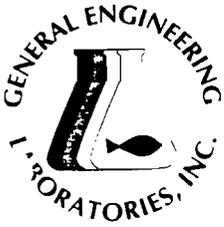
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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-35  
 Lab ID : 9804024-35  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		1850	63.3	467	ug/kg	2.0	MBL	04/05/98	1649	119396	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119396 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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Report Date: April 08, 1998

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Sample ID : SPORT0639-36  
 Lab ID : 9804024-36  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		3160	64.0	472	ug/kg	2.0	MBL	04/05/98	1705	119396	1

**The following prep procedures were performed:**

TRACE VMM 04/02/98 1300 119396 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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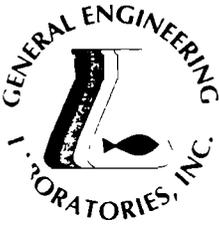
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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-37  
 Lab ID : 9804024-37  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		4830	64.5	476	ug/kg	2.0	MBL	04/05/98	1710	119396	1

### The following prep procedures were performed:

TRACE

VMM 04/02/98 1300 119396 2

### M = Method

### Method-Description

M 1 EPA 6010A  
 M 2 EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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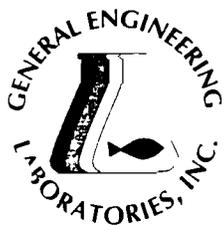
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Page 1 of 1

Sample ID : SPORT0639-38  
 Lab ID : 9804024-38  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		4580	67.1	495	ug/kg	2.0	MBL	04/05/98	1716	119396	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119396 2

M = Method	Method-Description
------------	--------------------

M 1	EPA 6010A
M 2	EPA 3050

Notes.

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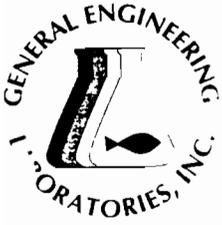
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 North Charleston, South Carolina 29405-2106

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Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-39  
 Lab ID : 9804024-39  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		4800	64.5	476	ug/kg	2.0	MBL	04/05/98	1721	119396	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119396 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

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TN	02934	02934

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

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 Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-40  
 Lab ID : 9804024-40  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		3120	62.8	463	ug/kg	2.0	MBL	04/05/98	1726	119396	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119396 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

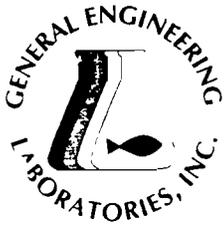
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Page 1 of 1

Sample ID : SPORT0639-41  
 Lab ID : 9804024-41  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		58200	67.1	495	ug/kg	2.0	MBL	04/05/98	1732	119396	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119396 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows.

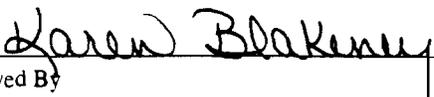
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Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-42  
 Lab ID : 9804024-42  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		21900	62.2	459	ug/kg	2.0	MBL	04/05/98	1737	119396	1

The following prep procedures were performed:  
 TRACE

VMM 04/02/98 1300 119396 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes:

The qualifiers in this report are defined as follows:

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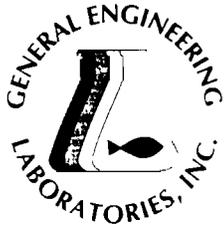
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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-43  
 Lab ID : 9804024-43  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		17600	66.4	490	ug/kg	2.0	MBL	04/05/98	1742	119396	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119396 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

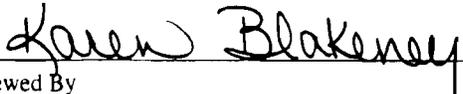
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Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-44  
 Lab ID : 9804024-44  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		14600	67.1	495	ug/kg	2.0	MBL	04/05/98	1748	119396	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119396 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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*Karen Blakeney*  
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TN	02934	02934

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-45  
 Lab ID : 9804024-45  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		2250	65.8	485	ug/kg	2.0	MBL	04/05/98	1753	119396	1

The following prep procedures were performed:  
 TRACE

VMM 04/02/98 1300 119396 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes.

The qualifiers in this report are defined as follows:

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

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STATE	GEL	EPI
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NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

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Sample ID : SPORT0639-46  
 Lab ID : 9804024-46  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		71100	65.2	481	ug/kg	2.0	MBL	04/05/98	1809	119396	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119396 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

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TN	02934	02934

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-47  
 Lab ID : 9804024-47  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		10300	66.4	490	ug/kg	2.0	MBL	04/05/98	1815	119396	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119396 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-48  
 Lab ID : 9804024-48  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		145000	62.2	459	ug/kg	2.0	MBL	04/05/98	1905	119397	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119397 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes.**

The qualifiers in this report are defined as follows:

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

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-49  
 Lab ID : 9804024-49  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		40700	62.8	463	ug/kg	2.0	MBL	04/05/98	1911	119397	1

### The following prep procedures were performed:

TRACE

VMM 04/02/98 1300 119397 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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

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

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

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Sample ID : SPORT0639-50  
 Lab ID : 9804024-50  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		351000	63.3	467	ug/kg	2.0	MBL	04/05/98	1916	119397	1

The following prep procedures were performed:  
 TRACE

VMM 04/02/98 1300 119397 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes.

The qualifiers in this report are defined as follows:

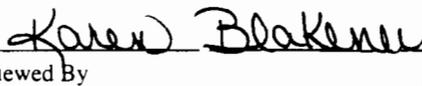
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

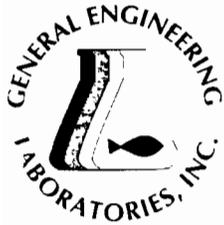
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

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Sample ID : SPORT0639-51  
 Lab ID : 9804024-51  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		15200	65.2	481	ug/kg	2.0	MBL	04/05/98	1921	119397	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119397 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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*Karen Blakeney*  
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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

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Sample ID : SPORT0639-52  
 Lab ID : 9804024-52  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		24300	66.4	490	ug/kg	2.0	MBL	04/05/98	1927	119397	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119397 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

Notes.

The qualifiers in this report are defined as follows:

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Contact: Mr. Bill Hiers  
 Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-53  
 Lab ID : 9804024-53  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		4700	62.8	463	ug/kg	2.0	MBL	04/05/98	1932	119397	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119397 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-54  
 Lab ID : 9804024-54  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		11900	64.0	472	ug/kg	2.0	MBL	04/05/98	1937	119397	1

The following prep procedures were performed:  
 TRACE

VMM 04/02/98 1300 119397 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes.

The qualifiers in this report are defined as follows:

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TN	02934	02934

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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-55  
Lab ID : 9804024-55  
Matrix : Soil  
Date Collected : 03/31/98  
Date Received : 04/01/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		101000	62.8	463	ug/kg	2.0	MBL	04/05/98	1943	119397	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119397 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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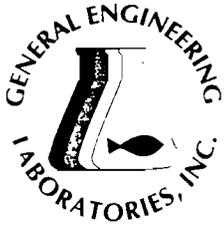
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SC	10120	10582
TN	02934	02934

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-56  
 Lab ID : 9804024-56  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		10500	63.3	467	ug/kg	2.0	MBL	04/05/98	1959	119397	1

The following prep procedures were performed:  
 TRACE

VMM 04/02/98 1300 119397 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes:

The qualifiers in this report are defined as follows:

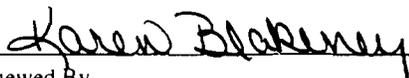
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

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Sample ID : SPORT0639-57  
 Lab ID : 9804024-57  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		27400	64.0	472	ug/kg	2.0	MBL	04/05/98	2004	119397	1

The following prep procedures were performed:  
 TRACE

VMM 04/02/98 1300 119397 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes:

The qualifiers in this report are defined as follows:

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

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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

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Sample ID : SPORT0639-58  
Lab ID : 9804024-58  
Matrix : Soil  
Date Collected : 03/31/98  
Date Received : 04/01/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		59200	65.2	481	ug/kg	2.0	MBL	04/05/98	2010	119397	1

### The following prep procedures were performed:

TRACE

VMM 04/02/98 1300 119397 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes.

The qualifiers in this report are defined as follows:

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

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

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SC	10120	10582
TN	02934	02934

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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1998

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Sample ID : SPORT0639-59  
 Lab ID : 9804024-59  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		34800	67.1	495	ug/kg	2.0	MBL	04/05/98	2015	119397	1

### The following prep procedures were performed:

TRACE

VMM 04/02/98 1300 119397 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes.

The qualifiers in this report are defined as follows:

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

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

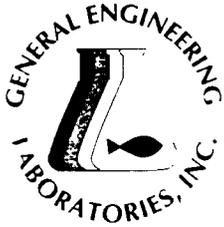
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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# GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-60  
 Lab ID : 9804024-60  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		6100	62.8	463	ug/kg	2.0	MBL	04/05/98	2020	119397	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119397 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes.**

The qualifiers in this report are defined as follows:

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

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.

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*Karen Blakeney*  
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### Laboratory Certifications

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FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-61  
 Lab ID : 9804024-61  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		12300	64.0	472	ug/kg	2.0	MBL	04/05/98	2026	119397	1

The following prep procedures were performed:  
 TRACE

VMM 04/02/98 1300 119397 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes.

The qualifiers in this report are defined as follows:

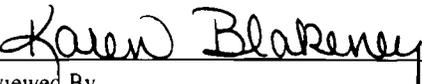
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

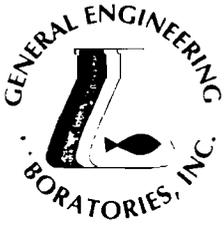
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-62  
 Lab ID : 9804024-62  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		15400	64.0	472	ug/kg	2.0	MBL	04/05/98	2031	119397	1

The following prep procedures were performed:

TRACE

VMM 04/02/98 1300 119397 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

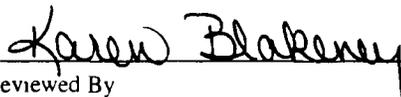
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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.

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-63  
 Lab ID : 9804024-63  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		18900	62.8	463	ug/kg	2.0	MBL	04/05/98	2036	119397	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119397 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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.

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-64  
 Lab ID : 9804024-64  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		15600	62.2	459	ug/kg	2.0	MBL	04/05/98	2042	119397	1

The following prep procedures were performed:  
 TRACE

VMM 04/02/98 1300 119397 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes:

The qualifiers in this report are defined as follows:

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

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

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STATE	GEL	EPI
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NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-65  
 Lab ID : 9804024-65  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		27100	62.8	463	ug/kg	2.0	MBL	04/05/98	2047	119397	1

### The following prep procedures were performed:

TRACE

VMM 04/02/98 1300 119397 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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

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.

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NC	233	
SC	10120	10582
TN	02934	02934

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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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-66  
 Lab ID : 9804024-66  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		10700	62.2	459	ug/kg	2.0	MBL	04/05/98	2103	119397	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119397 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

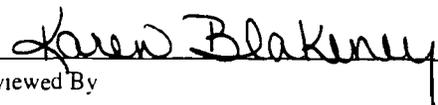
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

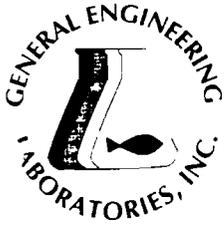
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-67  
 Lab ID : 9804024-67  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		26500	63.3	467	ug/kg	2.0	MBL	04/05/98	2108	119397	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119397 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

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

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

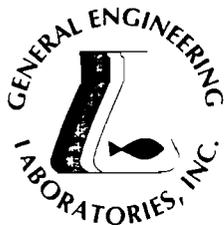
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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-68  
 Lab ID : 9804024-68  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		10000	65.2	481	ug/kg	2.0	MBL	04/06/98	1721	119398	1

### The following prep procedures were performed:

TRACE

VMM 04/03/98 1000 119398 2

### M = Method

### Method-Description

M 1 EPA 6010A  
 M 2 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.

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

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FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-69  
 Lab ID : 9804024-69  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		7040	66.4	490	ug/kg	2.0	MBL	04/06/98	1727	119398	1

**The following prep procedures were performed:**

TRACE

VMM 04/03/98 1000 119398 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-70  
 Lab ID : 9804024-70  
 Matrix : Soil  
 Date Collected : 04/01/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		10600	67.1	495	ug/kg	2.0	MBL	04/06/98	1733	119398	1

### The following prep procedures were performed:

TRACE

VMM 04/03/98 1000 119398 2

### M = Method

### Method-Description

M 1	EPA 6010A
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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

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.

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## Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-71  
Lab ID : 9804024-71  
Matrix : Soil  
Date Collected : 04/01/98  
Date Received : 04/01/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		73400	66.4	490	ug/kg	2.0	MBL	04/06/98	1739	119398	1

### The following prep procedures were performed:

TRACE

VMM 04/03/98 1000 119398 2

### M = Method

### Method-Description

M 1 EPA 6010A  
M 2 EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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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.

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GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

Table with 3 columns: STATE, GEL, EPI. Rows for FL, NC, SC, TN with corresponding certification numbers.

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: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPORTO636-5
Lab ID : 9804023-05
Matrix : Soil
Date Collected : 03/27/98
Date Received : 04/01/98
Priority : Routine
Collector : Client

Table with 11 columns: Parameter, Qualifier, Result, DL, RL, Units, DF, Analyst, Date, Time, Batch, M. Row for Metals Analysis Lead with values 29300, 64.5, 476 ug/kg, etc.

The following prep procedures were performed:
TRACE

FGD 04/02/98 1630 119392 2

Table with 2 columns: M = Method, Method-Description. Rows for M 1 (EPA 6010A) and M 2 (EPA 3050).

Notes:

The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
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Signature of Karen Blakeney
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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPORO636-6  
 Lab ID : 9804023-06  
 Matrix : Soil  
 Date Collected : 03/27/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		6030	64.0	472	ug/kg	2.0	MBL	04/03/98	1845	119392	1

**The following prep procedures were performed:**

TRACE

FGD 04/02/98 1630 119392 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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.

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 07, 1998

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Sample ID : SPOR0636-7  
 Lab ID : 9804023-07  
 Matrix : Soil  
 Date Collected : 03/27/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		7400	65.2	481	ug/kg	2.0	MBL	04/03/98	1850	119392	1

**The following prep procedures were performed:**

TRACE

FGD 04/02/98 1630 119392 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

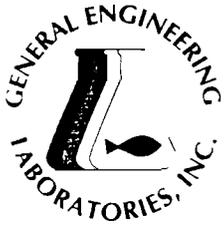
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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North Charleston, South Carolina 29405-2106

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Sample ID : SPOR0636-8  
Lab ID : 9804023-08  
Matrix : Soil  
Date Collected : 03/27/98  
Date Received : 04/01/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		4710	67.8	500	ug/kg	2.0	MBL	04/03/98	1856	119392	1

**The following prep procedures were performed:**

TRACE

FGD 04/02/98 1630 119392 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

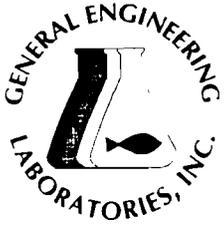
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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Sample ID : SPOR0636-9  
 Lab ID : 9804023-09  
 Matrix : Soil  
 Date Collected : 03/27/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		6970	65.8	485	ug/kg	2.0	MBL	04/03/98	1912	119392	1

### The following prep procedures were performed:

TRACE

FGD 04/02/98 1630 119392 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes

The qualifiers in this report are defined as follows:

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Sample ID : SPOR0636-10  
 Lab ID : 9804023-10  
 Matrix : Soil  
 Date Collected : 03/27/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		3670	64.0	472	ug/kg	2.0	MBL	04/03/98	1917	119392	1

**The following prep procedures were performed:**

TRACE FGD 04/02/98 1630 119392 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPOR0636-11  
 Lab ID : 9804023-11  
 Matrix : Soil  
 Date Collected : 03/27/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		804000	66.4	490	ug/kg	2.0	MBL	04/03/98	1922	119392	1

**The following prep procedures were performed:**

TRACE

FGD 04/02/98 1630 119392 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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Page 1 of 1

Sample ID : SPOR0636-12  
 Lab ID : 9804023-12  
 Matrix : Soil  
 Date Collected : 03/27/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		104000	62.2	459	ug/kg	2.0	MBL	04/03/98	1928	119392	1

**The following prep procedures were performed:**

TRACE

FGD 04/02/98 1630 119392 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

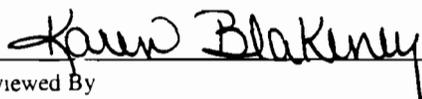
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 07, 1998

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Sample ID : SPORTO636-13  
 Lab ID : 9804023-13  
 Matrix : Soil  
 Date Collected : 03/30/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		7550	65.2	481	ug/kg	2.0	MBL	04/03/98	1933	119392	1

**The following prep procedures were performed:**

TRACE

FGD 04/02/98 1630 119392 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes.**

The qualifiers in this report are defined as follows:

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Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPOR0636-14  
 Lab ID : 9804023-14  
 Matrix : Soil  
 Date Collected : 03/30/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		9340	64.0	472	ug/kg	2.0	MBL	04/03/98	1938	119392	1

The following prep procedures were performed:  
 TRACE

FGD 04/02/98 1630 119392 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

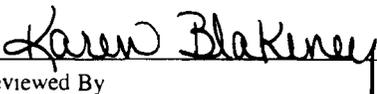
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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TN	02934	02934

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 North Charleston, South Carolina 29405-2106

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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPOR0636-15  
 Lab ID : 9804023-15  
 Matrix : Soil  
 Date Collected : 03/30/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		4710	65.2	481	ug/kg	2.0	MBL	04/03/98	1944	119392	1

**The following prep procedures were performed:**

TRACE

FGD 04/02/98 1630 119392 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

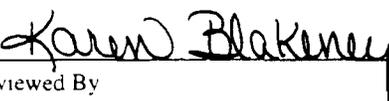
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPOR0636-16  
Lab ID : 9804023-16  
Matrix : Soil  
Date Collected : 03/30/98  
Date Received : 04/01/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		1080	67.1	495	ug/kg	2.0	MBL	04/03/98	1949	119392	1

**The following prep procedures were performed:**

TRACE

FGD 04/02/98 1630 119392 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
M 2 EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

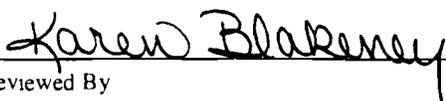
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

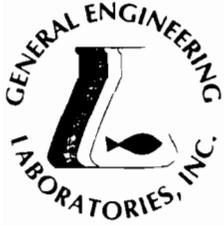
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: April 07, 1998

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Sample ID : SPORTO636-17  
 Lab ID : 9804023-17  
 Matrix : Soil  
 Date Collected : 03/30/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		2700	63.3	467	ug/kg	2.0	MBL	04/03/98	1954	119392	1

**The following prep procedures were performed:**

TRACE FGD 04/02/98 1630 119392 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

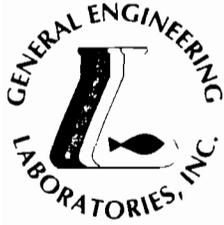
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*Karen Blakeney*  
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Sample ID : SPORTO636-18  
 Lab ID : 9804023-18  
 Matrix : Soil  
 Date Collected : 03/30/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		1380	62.8	463	ug/kg	2.0	MBL	04/03/98	2000	119392	1

The following prep procedures were performed:  
 TRACE

FGD 04/02/98 1630 119392 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

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Sample ID : SPORTO636-19  
 Lab ID : 9804023-19  
 Matrix : Soil  
 Date Collected : 03/30/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		4960	66.4	490	ug/kg	2.0	MBL	04/03/98	2016	119392	1

The following prep procedures were performed:  
 TRACE

FGD 04/02/98 1630 119392 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes:

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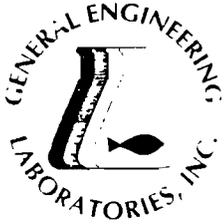
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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Sample ID : SPOR0636-20  
 Lab ID : 9804023-20  
 Matrix : Soil  
 Date Collected : 03/30/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		902	65.8	485	ug/kg	2.0	MBL	04/03/98	2021	119392	1

### The following prep procedures were performed:

TRACE FGD 04/02/98 1630 119392 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

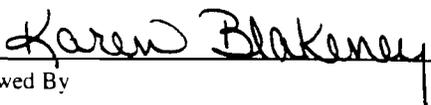
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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.

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TN	02934	02934

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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: NPWC00197

Report Date: April 07, 1998

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Sample ID : SPORO636-21  
Lab ID : 9804023-21  
Matrix : Soil  
Date Collected : 03/30/98  
Date Received : 04/01/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		946	67.1	495	ug/kg	2.0	MBL	04/03/98	2110	119393	1

### The following prep procedures were performed:

TRACE

VMM 04/02/98 1300 119393 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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

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

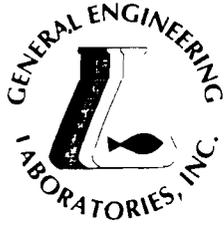
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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

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Sample ID : SPORTO636-23  
Lab ID : 9804023-22  
Matrix : Soil  
Date Collected : 03/30/98  
Date Received : 04/01/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		15200000	3110	23000	ug/kg	100	MBL	04/04/98	1204	119393	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119393 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Sample ID : SPORO636-24  
 Lab ID : 9804023-23  
 Matrix : Soil  
 Date Collected : 03/30/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		713000	64.5	476	ug/kg	2.0	MBL	04/04/98	1210	119393	1

The following prep procedures were performed:  
 TRACE

VMM 04/02/98 1300 119393 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes:

The qualifiers in this report are defined as follows:

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

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

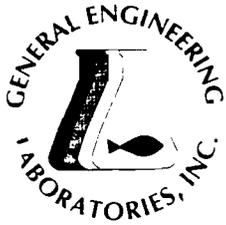
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Page 1 of 1

Sample ID : SPORTO636-25  
Lab ID : 9804023-24  
Matrix : Soil  
Date Collected : 03/30/98  
Date Received : 04/01/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		492000	64.0	472	ug/kg	2.0	MBL	04/03/98	2126	119393	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119393 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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Sample ID : SPOR0636-26  
 Lab ID : 9804023-25  
 Matrix : Soil  
 Date Collected : 03/30/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		4600000	63.3	467	ug/kg	2.0	MBL	04/03/98	2132	119393	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119393 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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Report Date: April 07, 1998

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Sample ID : SPORTO636-27  
 Lab ID : 9804023-26  
 Matrix : Soil  
 Date Collected : 03/30/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		23800	62.8	463	ug/kg	2.0	MBL	04/03/98	2137	119393	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119393 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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Page 1 of 1

Sample ID : SPORTO636-28  
Lab ID : 9804023-27  
Matrix : Soil  
Date Collected : 03/30/98  
Date Received : 04/01/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		12000	62.2	459	ug/kg	2.0	MBL	04/03/98	2143	119393	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119393 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes**

The qualifiers in this report are defined as follows:

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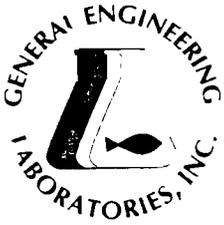
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 North Charleston, South Carolina 29405-2106

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Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPORTO636-29  
 Lab ID : 9804023-28  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		1040000	63.3	467	ug/kg	2.0	MBL	04/03/98	2148	119393	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119393 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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TN	02934	02934

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

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Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPOR0636-30  
 Lab ID : 9804023-29  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		1370000	66.4	490	ug/kg	2.0	MBL	04/03/98	2204	119393	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119393 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

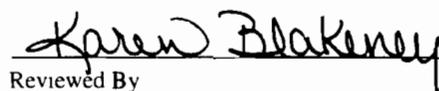
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

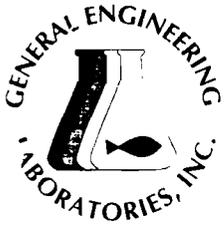
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Page 1 of 1

Sample ID : SPOR0636-31  
 Lab ID : 9804023-30  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		537000	64.5	476	ug/kg	2.0	MBL	04/03/98	2210	119393	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119393 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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Sample ID : SPOR0636-32  
 Lab ID : 9804023-31  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		6360000	317	2340	ug/kg	10.	MBL	04/04/98	1215	119393	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119393 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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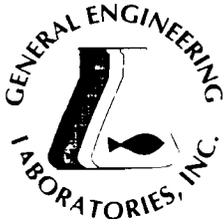
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Sample ID : SPORTO636-33  
 Lab ID : 9804023-32  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		1300000	65.2	481	ug/kg	2.0	MBL	04/03/98	2220	119393	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119393 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

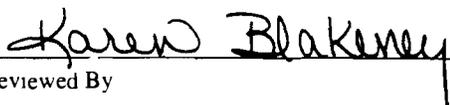
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Project Description: SUPSHIP-Portsmouth Detachment

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Sample ID : SPORTO636-34  
 Lab ID : 9804023-33  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		206000	65.2	481	ug/kg	2.0	MBL	04/03/98	2226	119393	1

The following prep procedures were performed:  
 TRACE

VMM 04/02/98 1300 119393 2

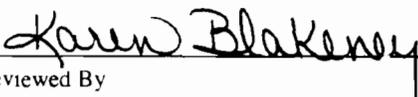
M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPOR0636-35  
 Lab ID : 9804023-34  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		23900	66.4	490	ug/kg	2.0	MBL	04/03/98	2231	119393	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119393 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

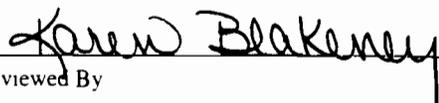
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

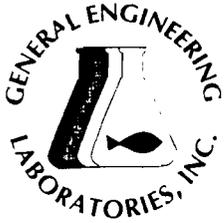
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPORTO636-36  
 Lab ID : 9804023-35  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		16600	64.5	476	ug/kg	2.0	MBL	04/03/98	2237	119393	1

The following prep procedures were performed:  
 TRACE

VMM 04/02/98 1300 119393 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes:

The qualifiers in this report are defined as follows:

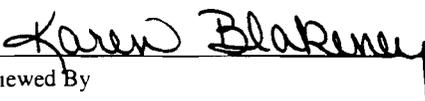
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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.

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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: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPOR0636-37  
 Lab ID : 9804023-36  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		25000	65.8	485	ug/kg	2.0	MBL	04/03/98	2242	119393	1

The following prep procedures were performed:  
 TRACE

VMM 04/02/98 1300 119393 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes:

The qualifiers in this report are defined as follows:

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FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPOR0636-38  
 Lab ID : 9804023-37  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		2840	63.3	467	ug/kg	2.0	MBL	04/03/98	2247	119393	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119393 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

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NC	233	
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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPOR0636-39  
 Lab ID : 9804023-38  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		376000	67.1	495	ug/kg	2.0	MBL	04/03/98	2253	119393	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119393 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

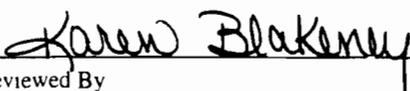
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

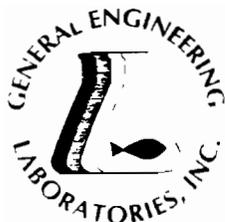
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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TN	02934	02934

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: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPORTO636-40  
 Lab ID : 9804023-39  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		29300	62.8	463	ug/kg	2.0	MBL	04/03/98	2309	119393	1

### The following prep procedures were performed:

TRACE

VMM 04/02/98 1300 119393 2

### M = Method

### Method-Description

M 1	EPA 6010A
M 2	EPA 3050

### Notes

The qualifiers in this report are defined as follows:

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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPORTO636-41  
 Lab ID : 9804023-40  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		3760000	62.2	459	ug/kg	2.0	MBL	04/03/98	2314	119393	1

The following prep procedures were performed:  
 TRACE

VMM 04/02/98 1300 119393 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes:

The qualifiers in this report are defined as follows:

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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: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPOR0636-42  
Lab ID : 9804023-41  
Matrix : Soil  
Date Collected : 03/31/98  
Date Received : 04/01/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		746000	65.2	481	ug/kg	2.0	MBL	04/04/98	0003	119394	1

### The following prep procedures were performed:

TRACE

FGD 04/02/98 1430 119394 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

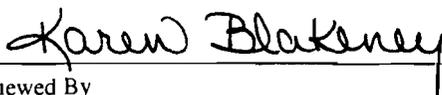
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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.

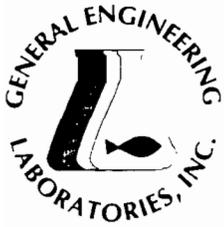
\* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPOR0636-43  
 Lab ID : 9804023-42  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		1650000	67.8	500	ug/kg	2.0	MBL	04/04/98	0009	119394	1

**The following prep procedures were performed:**

TRACE FGD 04/02/98 1430 119394 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes.**

The qualifiers in this report are defined as follows:

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

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.

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

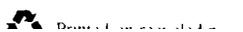
cc: NPWC00197

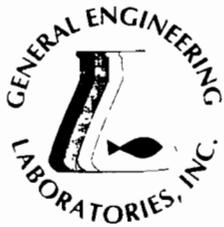
Lab. Sample ID: 9803642%

Report Date: April 06, 1998

Page 1 of 2

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
<b>Metals Analysis</b>													
QC496304	BLANK	119057											
Lead						41.6	ug/kg				MBL	03/30/98	1530
QC496309	BLANK	119058											
Lead						169	ug/kg				MBL	03/30/98	1839
QC496314	BLANK	119059											
Lead						18.7	ug/kg				MBL	04/01/98	1300
QC497194	BLANK	119312											
Lead						548	ug/kg				MBL	04/03/98	0913
QC496305	LCS	119057											
Lead			130000			117000	ug/kg		89.6	(77.1 - 116.)	MBL	03/30/98	1535
QC496310	LCS	119058											
Lead			127000			110000	ug/kg		86.9	(77.1 - 116.)	MBL	03/30/98	1845
C496315	LCS	119059											
Lead			134000			121000	ug/kg		90.3	(77.1 - 116.)	MBL	04/01/98	1306
QC497195	LCS	119312											
Lead			266000			129000	ug/kg		48.5**	(77.1 - 116.)	MBL	04/03/98	0919
QC496316	LCS DUP	119059											
Lead			132000			122000	ug/kg	2.44	92.6	(0.00 - 9.47)	MBL	04/01/98	1311
QC496307	9803642-20MS	119057											
Lead			46300	21100		74300	ug/kg		115	(56.3 - 135.)	MBL	03/30/98	1810
QC496312	9803642-40MS	119058											
Lead			46700	35100		93700	ug/kg		125	(56.3 - 135.)	MBL	03/30/98	2116
QC496318	9803611-02MS	119059											
Lead			46300	3860		52000	ug/kg		104	(56.3 - 135 )	MBL	04/01/98	1328
QC496308	9803642-20MSD	119057											
Lead			49000	21100		63500	ug/kg	28.2	86.5	(0.00 - 34.0)	MBL	03/30/98	1816
QC496313	9803642-40MSD	119058											
Lead			47600	35100		75900	ug/kg	37.6**	85.7	(0.00 - 34.0)	MBL	03/30/98	2122
QC496319	9803611-02MSD	119059											
Lead			48500	3860		54000	ug/kg	0.624	103	(0.00 - 34.0)	MBL	04/01/98	1333
QC496306	9803642-20SERIAL	119057											
Lead				21100		23100	ug/kg		9.02		MBL	03/30/98	1805
QC496311	9803642-40SERIAL	119058											
Lead				35100		37300	ug/kg		5.99		MBL	03/30/98	2111
QC496317	9803611-02SERIAL	119059											
Lead				3860		3970	ug/kg		2.87		MBL	04/01/98	1323





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SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-15  
 Lab ID : 9803642-15  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		930000	67.1	495	ug/kg	2.0	MBL	03/30/98	1718	119057	1

**The following prep procedures were performed:**

TRACE

VMM 03/27/98 1200 119057 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

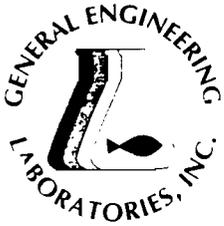
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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SC	10120	10582
TN	02934	02934

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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-16  
 Lab ID : 9803642-16  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		4190	66.4	490	ug/kg	2.0	MBL	03/30/98	1724	119057	1

**The following prep procedures were performed:**

TRACE

VMM 03/27/98 1200 119057 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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SC	10120	10582
TN	02934	02934

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-17  
 Lab ID : 9803642-17  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		2880000	62.2	459	ug/kg	2.0	MBL	03/30/98	1730	119057	1

**The following prep procedures were performed:**

TRACE

VMM 03/27/98 1200 119057 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

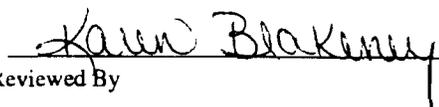
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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.

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# GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-18  
 Lab ID : 9803642-18  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		7070000	3140	23200	ug/kg	100	MBL	03/30/98	1736	119057	1

**The following prep procedures were performed:**

TRACE

VMM 03/27/98 1200 119057 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

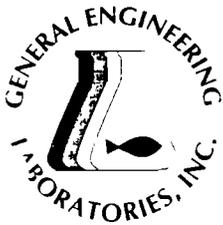
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 01, 1998

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Sample ID : SPORT0632-19  
 Lab ID : 9803642-19  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		69500	64.5	476	ug/kg	2.0	MBL	03/30/98	1753	119057	1

The following prep procedures were performed:

TRACE

VMM 03/27/98 1200 119057 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

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

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

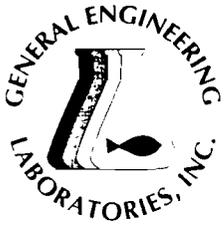
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Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: April 01, 1998

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Sample ID : SPORT0632-20  
 Lab ID : 9803642-20  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		21100	65.8	485	ug/kg	2.0	MBL	03/30/98	1759	119057	1

**The following prep procedures were performed:**

TRACE

VMM 03/27/98 1200 119057 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

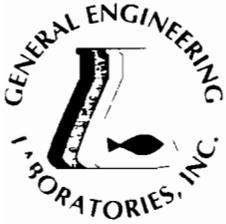
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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: April 01, 1998

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Sample ID : SPORT0632-21  
 Lab ID : 9803642-21  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		2430	63.3	467	ug/kg	2.0	MBL	03/30/98	1852	119058	1

The following prep procedures were performed:  
 TRACE

VMM 03/27/98 1200 119058 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

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

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 North Charleston, South Carolina 29405-2106

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Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-22  
 Lab ID : 9803642-22  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		110000	64.0	472	ug/kg	2.0	MBL	03/30/98	1858	119058	1

**The following prep procedures were performed:**

TRACE

VMM 03/27/98 1200 119058 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

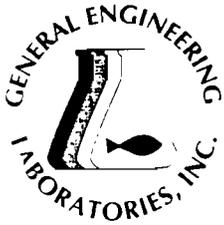
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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 North Charleston, South Carolina 29405-2106

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Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-23  
 Lab ID : 9803642-23  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		344000	67.1	495	ug/kg	2.0	MBL	03/30/98	1904	119058	1

**The following prep procedures were performed:**

TRACE

VMM 03/27/98 1200 119058 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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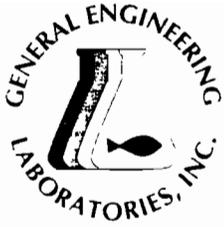
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Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-24  
 Lab ID : 9803642-24  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		329000	62.8	463	ug/kg	2.0	MBL	03/30/98	1909	119058	1

**The following prep procedures were performed:**

TRACE

VMM 03/27/98 1200 119058 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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The qualifiers in this report are defined as follows:

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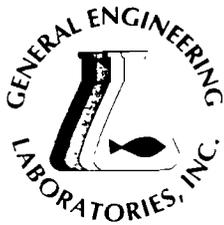
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 North Charleston, South Carolina 29405-2106

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Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-25  
 Lab ID : 9803642-25  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		18400000	3170	23400	ug/kg	100	MBL	03/30/98	1915	119058	1

The following prep procedures were performed:  
 TRACE

VMM 03/27/98 1200 119058 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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

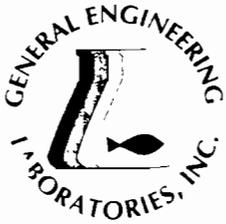
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TN	02934	02934

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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-26  
Lab ID : 9803642-26  
Matrix : Soil  
Date Collected : 03/25/98  
Date Received : 03/26/98  
Priority : Routine  
Collector : Client

Parameter	Qualifler	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		836000	64.5	476	ug/kg	2.0	MBL	03/30/98	1921	119058	1

**The following prep procedures were performed:**

TRACE

VMM 03/27/98 1200 119058 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
M 2 EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

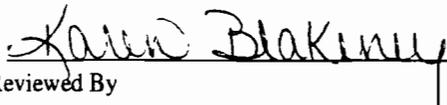
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

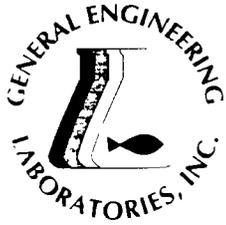
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 North Charleston, South Carolina 29405-2106

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Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-27  
 Lab ID : 9803642-27  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		565000	62.2	459	ug/kg	2.0	MBL	03/30/98	1927	119058	1

**The following prep procedures were performed:**

TRACE VMM 03/27/98 1200 119058 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

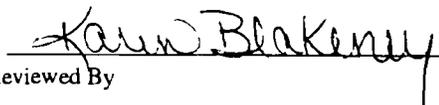
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

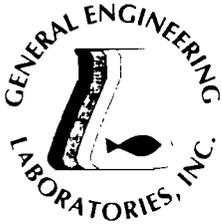
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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Page 1 of 1

Sample ID : SPORT0632-28  
 Lab ID : 9803642-28  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		447000	62.2	459	ug/kg	2.0	MBL	03/30/98	1932	119058	1

**The following prep procedures were performed:**

TRACE

VMM 03/27/98 1200 119058 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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Sample ID : SPORT0632-29  
 Lab ID : 9803642-29  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		211000	66.4	490	ug/kg	2.0	MBL	03/30/98	1950	119058	1

**The following prep procedures were performed:**

TRACE VMM 03/27/98 1200 119058 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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

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Sample ID : SPORT0632-30  
 Lab ID : 9803642-30  
 Matrix : Soil  
 Date Collected : 03/26/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		173000	64.5	476	ug/kg	2.0	MBL	03/30/98	1956	119058	1

**The following prep procedures were performed:**

TRACE

VMM 03/27/98 1200 119058 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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

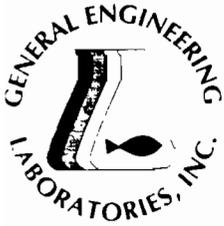
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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# GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-31  
 Lab ID : 9803642-31  
 Matrix : Soil  
 Date Collected : 03/26/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		70000	65.8	485	ug/kg	2.0	MBL	03/30/98	2001	119058	1

The following prep procedures were performed:

TRACE

VMM 03/27/98 1200 119058 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

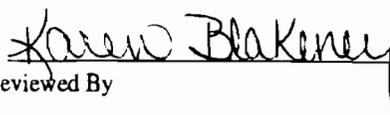
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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.

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SC	10120	10582
TN	02934	02934

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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-32  
 Lab ID : 9803642-32  
 Matrix : Soil  
 Date Collected : 03/26/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		92000	62.8	463	ug/kg	2.0	MBL	03/30/98	2007	119058	1

**The following prep procedures were performed:**

TRACE

VMM 03/27/98 1200 119058 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

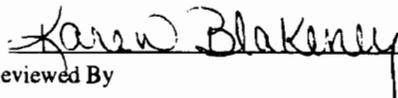
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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.

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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-33  
 Lab ID : 9803642-33  
 Matrix : Soil  
 Date Collected : 03/26/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		498000	65.2	481	ug/kg	2.0	MBL	03/30/98	2013	119058	1

**The following prep procedures were performed:**

TRACE

VMM 03/27/98 1200 119058 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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.

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TN	02934	02934

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-34  
 Lab ID : 9803642-34  
 Matrix : Soil  
 Date Collected : 03/26/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		118000	62.8	463	ug/kg	2.0	MBL	03/30/98	2019	119058	1

**The following prep procedures were performed:**

TRACE

VMM 03/27/98 1200 119058 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

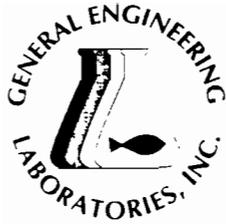
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-35  
 Lab ID : 9803642-35  
 Matrix : Soil  
 Date Collected : 03/26/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		154000	65.8	485	ug/kg	2.0	MBL	03/30/98	2024	119058	1

The following prep procedures were performed:  
 TRACE

VMM 03/27/98 1200 119058 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes:

The qualifiers in this report are defined as follows:

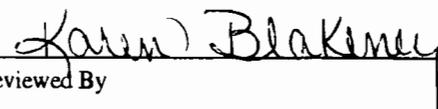
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 01, 1998

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Sample ID : SPORT0632-36  
Lab ID : 9803642-36  
Matrix : Soil  
Date Collected : 03/26/98  
Date Received : 03/26/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		144000	63.3	467	ug/kg	2.0	MBL	03/30/98	2030	119058	1

The following prep procedures were performed:  
TRACE

VMM 03/27/98 1200 119058 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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

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

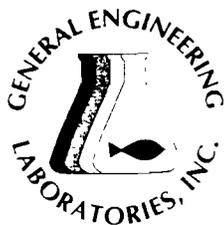
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-37  
 Lab ID : 9803642-37  
 Matrix : Soil  
 Date Collected : 03/26/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		16000	63.3	467	ug/kg	2.0	MBL	03/30/98	2036	119058	1

**The following prep procedures were performed:**

TRACE

VMM 03/27/98 1200 119058 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-38  
 Lab ID : 9803642-38  
 Matrix : Soil  
 Date Collected : 03/26/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		197000	65.2	481	ug/kg	2.0	MBL	03/30/98	2042	119058	1

The following prep procedures were performed:  
 TRACE

VMM 03/27/98 1200 119058 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes:

The qualifiers in this report are defined as follows:

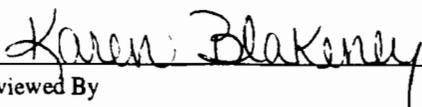
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

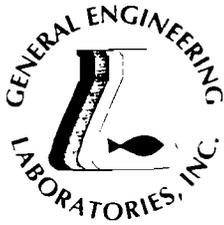
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-39  
 Lab ID : 9803642-39  
 Matrix : Soil  
 Date Collected : 03/26/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		242000	62.8	463	ug/kg	2.0	MBL	03/30/98	2059	119058	1

**The following prep procedures were performed:**

TRACE

VMM 03/27/98 1200 119058 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

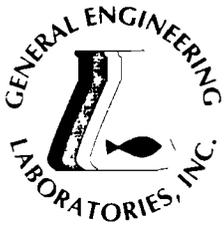
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-40  
 Lab ID : 9803642-40  
 Matrix : Soil  
 Date Collected : 03/26/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		35100	62.8	463	ug/kg	2.0	MBL	03/30/98	2105	119058	1

The following prep procedures were performed:

TRACE

VMM 03/27/98 1200 119058 2

### M = Method

### Method-Description

M 1 EPA 6010A  
 M 2 EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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TN	02934	02934

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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 02, 1998

Page 1 of 1

Sample ID : SPORT0632-41  
 Lab ID : 9803642-41  
 Matrix : Soil  
 Date Collected : 03/26/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		304000	67.1	495	ug/kg	2.0	MBL	04/01/98	1418	119059	1

**The following prep procedures were performed:**

TRACE

VMM 03/27/98 1200 119059 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 02, 1998

Page 1 of 1

Sample ID : SPORT0632-42  
 Lab ID : 9803642-42  
 Matrix : Soil  
 Date Collected : 03/26/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		17100	65.8	485	ug/kg	2.0	MBL	04/01/98	1423	119059	1

The following prep procedures were performed:

TRACE

VMM 03/27/98 1200 119059 2

### M = Method

### Method-Description

M 1 EPA 6010A  
 M 2 EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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

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

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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 02, 1998

Page 1 of 1

Sample ID : SPORT0632-43  
Lab ID : 9803642-43  
Matrix : Soil  
Date Collected : 03/25/98  
Date Received : 03/26/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		16100	66.4	490	ug/kg	2.0	MBL	04/01/98	1429	119059	1

The following prep procedures were performed:

TRACE

VMM 03/27/98 1200 119059 2

## M = Method

## Method-Description

M 1 EPA 6010A  
M 2 EPA 3050

## Notes:

The qualifiers in this report are defined as follows:

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

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 02, 1998

Page 1 of 1

Sample ID : SPORT0632-44  
 Lab ID : 9803642-44  
 Matrix : Soil  
 Date Collected : 03/26/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		39500	66.4	490	ug/kg	2.0	MBL	04/01/98	1434	119059	1

**The following prep procedures were performed:**

TRACE

VMM 03/27/98 1200 119059 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

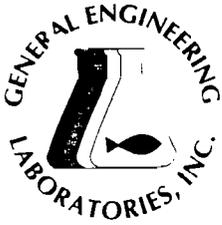
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# GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPORTO636-44  
 Lab ID : 9804023-43  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		181000	66.4	490	ug/kg	2.0	MBL	04/04/98	0014	119394	1

**The following prep procedures were performed:**

TRACE FGD 04/02/98 1430 119394 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes.**

The qualifiers in this report are defined as follows:

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

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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPOR0636-45  
 Lab ID : 9804023-44  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		68600	64.5	476	ug/kg	2.0	MBL	04/04/98	0019	119394	1

**The following prep procedures were performed:**

TRACE

FGD 04/02/98 1430 119394 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPOR0636-46  
 Lab ID : 9804023-45  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		9260	66.4	490	ug/kg	2.0	MBL	04/04/98	0025	119394	1

**The following prep procedures were performed:**

TRACE

FGD 04/02/98 1430 119394 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes.**

The qualifiers in this report are defined as follows:

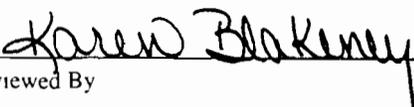
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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.

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TN	02934	02934

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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPORTO636-47  
 Lab ID : 9804023-46  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		6440	67.1	495	ug/kg	2.0	MBL	04/04/98	0030	119394	1

### The following prep procedures were performed:

TRACE

FGD 04/02/98 1430 119394 2

### M = Method

### Method-Description

M 1	EPA 6010A
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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

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

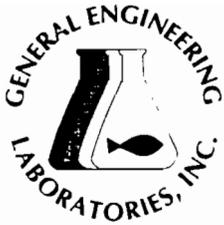
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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TN	02934	02934

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPORTO636-48  
 Lab ID : 9804023-47  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		6910	63.3	467	ug/kg	2.0	MBL	04/04/98	0036	119394	1

**The following prep procedures were performed:**

TRACE

FGD 04/02/98 1430 119394 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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SC	10120	10582
TN	02934	02934

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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPOR0636-49  
 Lab ID : 9804023-48  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		32200	66.4	490	ug/kg	2.0	MBL	04/04/98	0041	119394	1

### The following prep procedures were performed:

TRACE

FGD 04/02/98 1430 119394 2

### M = Method

### Method-Description

M 1 EPA 6010A  
 M 2 EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPOR0636-50  
 Lab ID : 9804023-49  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		8040	65.8	485	ug/kg	2.0	MBL	04/04/98	0057	119394	1

**The following prep procedures were performed:**

TRACE

FGD 04/02/98 1430 119394 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

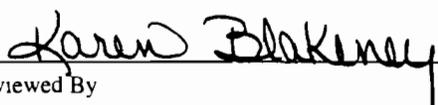
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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TN	02934	02934

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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPOR0636-52  
 Lab ID : 9804023-50  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		15400	67.1	495	ug/kg	2.0	MBL	04/04/98	0102	119394	1

**The following prep procedures were performed:**

TRACE

FGD 04/02/98 1430 119394 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows.

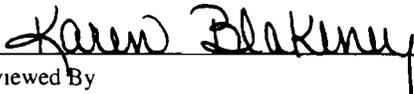
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

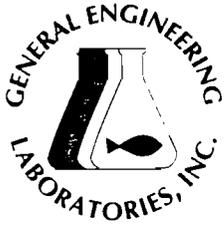
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NC	233	
SC	10120	10582
TN	02934	02934

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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: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPOR0636-53  
 Lab ID : 9804023-51  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		6430	67.8	500	ug/kg	2.0	MBL	04/04/98	0108	119394	1

**The following prep procedures were performed:**

TRACE FGD 04/02/98 1430 119394 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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*Karen Blakeney*  
 \_\_\_\_\_  
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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPORTO636-54  
 Lab ID : 9804023-52  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		22000	65.2	481	ug/kg	2.0	MBL	04/04/98	0113	119394	1

**The following prep procedures were performed:**

TRACE

FGD 04/02/98 1430 119394 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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TN	02934	02934

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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPOR0636-55  
 Lab ID : 9804023-53  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		3610	67.8	500	ug/kg	2.0	MBL	04/04/98	0118	119394	1

**The following prep procedures were performed:**

TRACE

FGD 04/02/98 1430 119394 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9804023%

Report Date: April 07, 1998

Page 1 of 1

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
<b>Metals Analysis</b>													
QC497506	BLANK	119392											
Lead						60.7	ug/kg				MBL	04/03/98	1807
QC497511	BLANK	119393											
Lead						137	ug/kg				MBL	04/03/98	2059
QC497516	BLANK	119394											
Lead						107	ug/kg				MBL	04/03/98	2352
QC497507	LCS	119392											
Lead			131000			134000	ug/kg		102	(77.1 - 116.)	MBL	04/03/98	1812
QC497512	LCS	119393											
Lead			130000			135000	ug/kg		104	(77.1 - 116.)	MBL	04/03/98	2104
QC497517	LCS	119394											
Lead			135000			130000	ug/kg		96.4	(77.1 - 116.)	MBL	04/03/98	2357
QC497509	9804023-20MS	119392											
Lead			46300	903		47200	ug/kg		100	(56.3 - 135.)	MBL	04/03/98	2032
QC497514	9804023-40MS	119393											
Lead			49000	3760000		2320000	ug/kg		n/a		MBL	04/03/98	2325
QC497519	9804024-07MS	119394											
Lead			48500	3770		55300	ug/kg		106	(56.3 - 135.)	MBL	04/04/98	0217
QC497510	9804023-20MSD	119392											
Lead			46300	903		46700	ug/kg	1.27	98.8	(0.00 - 34.0)	MBL	04/03/98	2037
QC497515	9804023-40MSD	119393											
Lead			48500	3760000		2970000	ug/kg		n/a		MBL	04/03/98	2330
QC497520	9804024-07MSD	119394											
Lead			49500	3770		57000	ug/kg	1.27	108	(0.00 - 34.0)	MBL	04/04/98	0223
QC497508	9804023-20SERIAL	119392											
Lead				903		1170	ug/kg	25.9			MBL	04/03/98	2027
QC497513	9804023-40SERIAL	119393											
Lead				3760000		3760000	ug/kg	0.0864			MBL	04/03/98	2320
QC497518	9804024-07SERIAL	119394											
Lead				3770		4350	ug/kg	14.3			MBL	04/04/98	0212

Notes:

The qualifiers in this report are defined as follows:  
 J indicates presence of analyte < RL (Report Limit)  
 U indicates presence of analyte < DL (Detect Limit)

n/a indicates that spike recovery limits do not apply when  
 sample concentration exceeds spike conc by a factor of 4 or more

# CHAIN OF CUSTODY RECORD

Page 1 of 25

9804023 1/2

Client Name/Facility Name		SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods										Use F or P in the boxes to indicate whether sample was filtered and/or preserved											
Sport Env/Det Chasn		# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	LEAD, COBALT METALS - Specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Remarks					
Collected by/Company																			WELL	SOIL	COMP	GRAB	
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	LEAD, COBALT METALS - Specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Remarks
-01 Sport #636-1	3/27/98	09:30	X				1							X									NBCA002SSZ405201
-02 Sport #636-2	3/27/98	09:30	X				1							X									NBCA002SSZ405202
-03 Sport #636-3	3/27/98	09:34	X				1							X									NBCA002SSZ405301
-04 Sport #636-4	3/27/98	09:34	X				1							X									NBCA002SSZ405302
-05 Sport #636-5	3/27/98	09:45	X				1							X									NBCA002SSZ405401
-06 Sport #636-6	3/27/98	09:45	X				1							X									NBCA002SSZ405402
-07 Sport #636-7	3/27/98	09:51	X				1							X									NBCA002SSZ405501
-08 Sport #636-8	3/27/98	09:51	X				1							X									NBCA002SSZ405502
-09 Sport #636-9	3/27/98	10:00	X				1							X									NBCA002SSZ405601
-10 Sport #636-10	3/27/98	10:00	X				1							X									NBCA002SSZ405602
-11 Sport #636-11	3/27/98	10:12	X				1							X									NBCA002SSZ405701
-12 Sport #636-12	3/27/98	10:12	X				1							X									NBCA002SSZ405702
-13 Sport #636-13	3/30/98	13:20	X				1							X									NBCA002SSZ405801
Relinquished by: <i>P. M. [Signature]</i>		Date: 4-1-98	Time: 1530	Received by: <i>John [Signature]</i>		Date: 4/1/98	Time: 1530	Received by: <i>Josephine [Signature]</i>															
Relinquished by: <i>Steph [Signature]</i>		Date: 4/98	Time: 16:15	Received by lab by: <i>Diane Francis</i>		Date: 4-1-98	Time: 1615	Remarks:															

White = ple collector      Yellow = file      Pink = with report

# CHAIN OF CUSTODY RECORD

Client Name/Facility Name				# OF CONTAINERS	SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods																Remarks
Sport Env Det Chasin					pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	HEAVY METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Colliform - specify type		
SAMPLE ID	DATE	TIME	WELL SOIL COMP GRAB																		
-14 Sport 636-14	3/30/98	13:20	X	1						X									NBCA002SSZ405802		
-15 Sport 636-15	3/30/98	13:31	X	1						X									NBCA002SSZ405901		
-16 Sport 636-16	3/30/98	13:31	X	1						X									NBCA002SSZ405902		
-17 Sport 636-17	3/30/98	13:36	X	1						X									NBCA002SSZ406001		
-18 Sport 636-18	3/30/98	13:36	X	1						X									NBCA002SSZ406002		
-19 Sport 636-19	3/30/98	13:53	X	1						X									NBCA002SSZ406101		
-20 Sport 636-20	3/30/98	13:53	X	1						X									NBCA002SSZ406102		
-21 Sport 636-21	3/30/98	13:53	X	1						X									NBCA002SSZ406201 m.w.f.		
<del>Sport 636-22</del>	<del>3/30/98</del>	<del>14:15</del>	X	1						X									<del>NBCA002SSZ406202 m.w.f.</del>		
-22 Sport 636-23	3/30/98	14:45	X	1						X									NBCA002SSZ406301		
-23 Sport 636-24	3/30/98	14:45	X	1						X									NBCA002SSZ406302		
-24 Sport 636-25	3/30/98	14:55	X	1						X									NBCA002SSZ406401		
-25 Sport 636-26	3/30/98	14:55	X	1						X									NBCA002SSZ406402		
Relinquished by: P. G. M...		Date: 4-1-98	Time: 1530	Received by: F. O. S...		Relinquished by: F. O. S...		Date: 4/1/98	Time: 1530	Received by: Stephen R. K...											
Relinquished by: Stephen R. Beckler		Date: 4/1/98	Time: 1615	Received by lab by: Denise Francis		Date: 4-1-98	Time: 1615	Remarks:													

White = ple collector    Yellow = file    Pink = with report

# CHAIN OF CUSTODY RECORD

Client Name/Facility Name			SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods																	Remarks
Sport Env Det Chasw			pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method Required	LEAD/PCP METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type			
Collected by/Company	SAMPLE ID	DATE																TIME	WELL	
Sport Env Det Chasw	-26 Sport #636-27	3/30/98	15:08	X						X									NBCA002552406501	
	-27 Sport #636-28	3/30/98	15:08	X						X									NBCA002552406502	
	-28 Sport #636-29	3/31/98	08:35	X						X									NBCA002552406601	
	-29 Sport #636-30	3/31/98	08:40	X						X									NBCA002552406602	
	-30 Sport #636-31	3/31/98	08:50	X						X									NBCA002552406701	
	-31 Sport #636-32	3/31/98	08:55	X						X									NBCA002552406702	
	-32 Sport #636-33	3/31/98	09:00	X						X									NBCA002552406801	
	-33 Sport #636-34	3/31/98	09:04	X						X									NBCA002552406802	
	-34 Sport #636-35	3/31/98	09:09	X						X									NBCA002552406901	
	-35 Sport #636-36	3/31/98	09:13	X						X									NBCA002552406902	
	-36 Sport #636-37	3/31/98	10:25	X						X									NBCA002552407001	
	-37 Sport #636-38	3/31/98	10:35	X						X									NBCA002552407002	
	-38 Sport #636-39	3/31/98	10:45	X						X									NBCA002552407101	
Relinquished by:		Date:	Time:	Received by:		Relinquished by:		Date:	Time:	Received by:										
[Signature]		4-1-98	1530	Fred & [Signature]		Fred & [Signature]		4/1/98	1530	[Signature]										
Relinquished by:		Date:	Time:	Received by lab by:		Date:	Time:	Remarks:												
Stephanie Beckton		4-1-98	16:15	Dionne Francis		4-1-98	16:15													

White = sole collector    Yellow = file    Pink = with report

# CHAIN OF CUSTODY RECORD

Client Name/Facility Name				SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods																	Use F or P in the boxes to indicate whether sample was filtered and/or preserved
Sport Env Det Chasrn				# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type		
SAMPLE ID	DATE	TIME	WELL																	SOIL	
39	Sport 636-40	3-31-98	1100	X							X										NBCA002SSZ407102
40	Sport 636-41	3-31-98	1311	X							X										NBCA002SSZ407201
41	Sport 636-42	3-31-98	1317	X							X										NBCA002SSZ407202
42	Sport 636-43	3-31-98	1323	X							X										NBCA002SSZ407301
43	Sport 636-44	3-31-98	1326	X							X										NBCA002SSZ407302
44	Sport 636-45	3-31-98	1330	X							X										NBCA002SSZ407401
45	Sport 636-46	3-31-98	1336	X							X										NBCA002SSZ407402
46	Sport 636-47	3-31-98	1338	X							X										NBCA002SSZ407501
47	Sport 636-48	3-31-98	1340	X							X										NBCA002SSZ407502
48	Duplicate SPORT 636-49	3-31-98	1107	X							X										NBCA002SSZ407102
49	SPORT 636-50	3-31-98	1403	X							X										NBCA002SSZ822001
50	SPORT 636-51 CFM	3-31-98	14	X							X										NBCA002SSZ822002
50	SPORT 636-52	3-31-98	1407	X							X										NBCA002SSZ822101
Relinquished by:		Date:	Time:	Received by:		Relinquished by:		Date:	Time:	Received by:											
<i>P. M. [Signature]</i>		4-1-98	1530	<i>Fred E. [Signature]</i>		<i>Fred E. [Signature]</i>		4/1/98	1530	<i>Stephano [Signature]</i>											
Relinquished by:		Date:	Time:	Received by lab by:		Date:	Time:	Remarks:													
<i>Stephano [Signature]</i>		4-1-98	16:15	<i>Stephano [Signature]</i>		4/1/98	16:15														

White = collector      Yellow = file      Pink = with report

# CHAIN OF CUSTODY RECORD

Page 5 of 5

Client Name/Facility Name				# OF CONTAINERS	SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods														Remarks	
Collected by/Company					pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide		Coliform - specify type
SAMPLE ID	DATE	TIME			WELL	SOIL	COMP	GRAB												
-51 SPORT 636-53	3-31-98	1431		X						X									NBCA 002552822201	
-52 SPORT 636-54	3-31-98	1429		X						X									NBCA 002552822301	
53 SPORT 636-55	3-31-98	1435		X						X									NBCA 002552822401	
CFM <del>SPORT 636-56</del>				X						X									<del>NBCA 002552822501</del>	
CFM <del>SPORT 636-57</del>				X						X									<del>NBCA 002552822601</del>	
CFM <del>SPORT 636-58</del>				X						X									<del>NBCA 002552822701</del>	
CFM <del>SPORT 636-59</del>				X						X									<del>NBCA 002552822801</del>	
CFM <del>SPORT 636-60</del>				X						X									<del>NBCA 002552822901</del>	
Duplicate CFM <del>SPORT 636-61</del>				X						X									<del>NBCA 002552822901</del>	

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

Relinquished by: <u>E9M</u>	Date: <u>4/1/98</u>	Time: <u>1530</u>	Received by: <u>Fred L. McK...</u>	Relinquished by: <u>Fred L. McK...</u>	Date: <u>4/1/98</u>	Time: <u>1530</u>	Received by: <u>Stephanie Beck...</u>
Relinquished by: <u>Stephanie Beck...</u>	Date: <u>4-1-98</u>	Time: <u>16:15</u>	Received by lab by: <u>Donna Franco</u>	Date: <u>4-1-98</u>	Time: <u>1615</u>	Remarks:	

White = ple collector    Yellow = file    Pink = with report



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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-1  
 Lab ID : 9804024-01  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		21600	66.4	490	ug/kg	2.0	MBL	04/04/98	0124	119394	1

The following prep procedures were performed:  
 TRACE

FGD 04/02/98 1430 119394 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

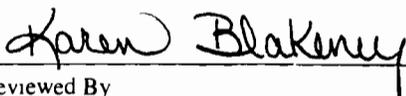
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

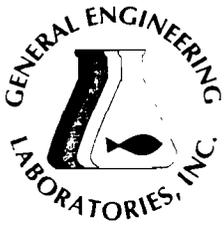
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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.

  
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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-2  
Lab ID : 9804024-02  
Matrix : Soil  
Date Collected : 03/31/98  
Date Received : 04/01/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		27300	65.8	485	ug/kg	2.0	MBL	04/04/98	0129	119394	1

### The following prep procedures were performed:

TRACE

FGD 04/02/98 1430 119394 2

### M = Method

### Method-Description

M 1 EPA 6010A  
M 2 EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

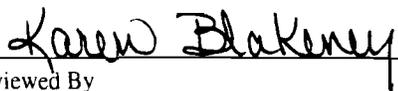
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

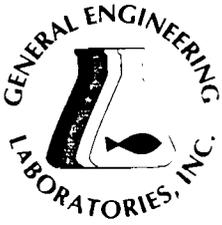
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-3  
 Lab ID : 9804024-03  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		4160000	66.4	490	ug/kg	2.0	MBL	04/04/98	0134	119394	1

**The following prep procedures were performed:**

TRACE

FGD 04/02/98 1430 119394 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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.

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FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-4  
 Lab ID : 9804024-04  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		2580000	66.4	490	ug/kg	2.0	MBL	04/04/98	0140	119394	1

**The following prep procedures were performed:**

TRACE

FGD 04/02/98 1430 119394 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes.**

The qualifiers in this report are defined as follows:

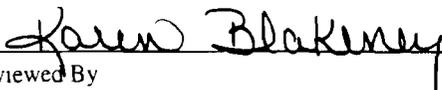
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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.

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## Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-5  
Lab ID : 9804024-05  
Matrix : Soil  
Date Collected : 03/31/98  
Date Received : 04/01/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		3780000	64.5	476	ug/kg	2.0	MBL	04/04/98	0145	119394	1

**The following prep procedures were performed:**

TRACE

FGD 04/02/98 1430 119394 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
M 2 EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

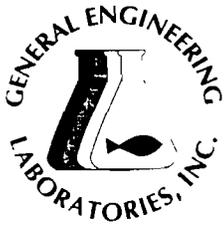
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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## Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-6  
Lab ID : 9804024-06  
Matrix : Soil  
Date Collected : 03/31/98  
Date Received : 04/01/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		6000	66.4	490	ug/kg	2.0	MBL	04/04/98	0201	119394	1

**The following prep procedures were performed:**

TRACE

FGD 04/02/98 1430 119394 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
M 2 EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

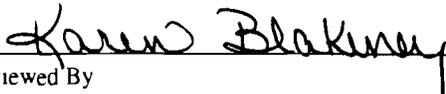
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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.

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\_\_\_\_\_  
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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-7  
 Lab ID : 9804024-07  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		3770	67.1	495	ug/kg	2.0	MBL	04/04/98	0207	119394	1

**The following prep procedures were performed:**

TRACE FGD 04/02/98 1430 119394 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

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

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.

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# GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-8  
 Lab ID : 9804024-08  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		13200	67.1	495	ug/kg	2.0	MBL	04/05/98	1309	119395	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119395 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes:**

The qualifiers in this report are defined as follows.

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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.

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SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 08, 1998

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Sample ID : SPORT0639-9  
 Lab ID : 9804024-09  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		25900	62.2	459	ug/kg	2.0	MBL	04/05/98	1325	119395	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119395 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

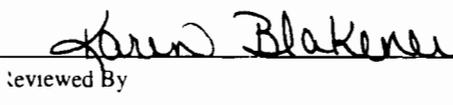
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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Project Description: SUPSHIP-Portsmouth Detachment

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Sample ID : SPORT0639-10  
 Lab ID : 9804024-10  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		5450	63.3	467	ug/kg	2.0	MBL	04/05/98	1330	119395	1

**The following prep procedures were performed:**

TRACE VMM 04/02/98 1300 119395 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes.**

The qualifiers in this report are defined as follows:

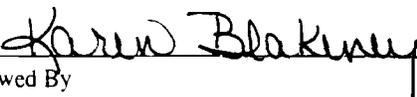
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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Sample ID : SPORT0639-11  
 Lab ID : 9804024-11  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		6360	64.5	476	ug/kg	2.0	MBL	04/05/98	1335	119395	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119395 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes.**

The qualifiers in this report are defined as follows:

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

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

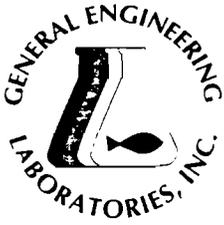
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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Sample ID : SPORT0639-12  
 Lab ID : 9804024-12  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		1140000	62.2	459	ug/kg	2.0	MBL	04/05/98	1341	119395	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119395 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes.**

The qualifiers in this report are defined as follows:

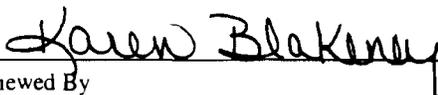
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Sample ID : SPORT0639-13  
 Lab ID : 9804024-13  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		4950000	314	2320	ug/kg	10.	MBL	04/05/98	2151	119395	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119395 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

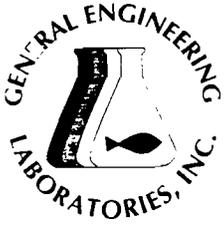
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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Sample ID : SPORT0639-14  
 Lab ID : 9804024-14  
 Matrix : Soil  
 Date Collected : 03/31/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		2010000	64.5	476	ug/kg	2.0	MBL	04/05/98	1351	119395	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119395 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

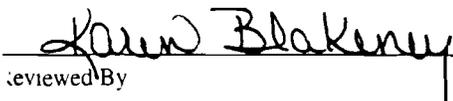
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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Project Description: SUPSHIP-Portsmouth Detachment

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Sample ID : SPORT0639-15  
Lab ID : 9804024-15  
Matrix : Soil  
Date Collected : 03/31/98  
Date Received : 04/01/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		24300	62.8	463	ug/kg	2.0	MBL	04/05/98	1357	119395	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119395 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
M 2 EPA 3050

**Notes:**

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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

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Report Date: April 08, 1998

Page 1 of 1

Sample ID : SPORT0639-16  
Lab ID : 9804024-16  
Matrix : Soil  
Date Collected : 03/31/98  
Date Received : 04/01/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		22300	67.1	495	ug/kg	2.0	MBL	04/05/98	1413	119395	1

**The following prep procedures were performed:**

TRACE

VMM 04/02/98 1300 119395 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
M 2 EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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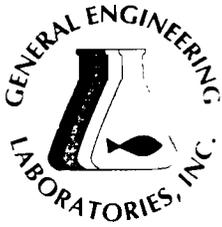
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Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0630-44  
 Lab ID : 9803581-44  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		222000	67.1	495	ug/kg	2.0	MBL	03/28/98	1612	118924	1

The following prep procedures were performed:  
 TRACE

VMM 03/25/98 1500 118924 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes:

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0630-45  
 Lab ID : 9803581-45  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		264000	66.4	490	ug/kg	2.0	MBL	03/28/98	1617	118924	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118924 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

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Sample ID : SPORT0630-46  
 Lab ID : 9803581-46  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		179000	65.2	481	ug/kg	2.0	MBL	03/28/98	1623	118924	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118924 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes:**

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Sample ID : SPORT0630-47  
 Lab ID : 9803581-47  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		28700	65.8	485	ug/kg	2.0	MBL	03/28/98	1639	118924	1

The following prep procedures were performed:

TRACE

VMM 03/25/98 1500 118924 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes:

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Page 1 of 1

Sample ID : SPORT0630-48  
 Lab ID : 9803581-48  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		14600000	3110	23000	ug/kg	100	MBL	03/29/98	1208	118924	1

**The following prep procedures were performed:**

TRACE VMM 03/25/98 1500 118924 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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*Karen Blakeney*  
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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: March 31, 1998

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Sample ID : SPORT0630-49  
 Lab ID : 9803581-49  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		407000	64.5	476	ug/kg	2.0	MBL	03/29/98	1214	118924	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118924 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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.

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.

Reviewed By



QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9803581%

Report Date: March 31, 1998

Page 1 of 1

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
<b>Metals Analysis</b>													
QC495788	BLANK	118922											
Lead						46.4	ug/kg				MBL	03/28/98	1732
QC495793	BLANK	118923											
Lead						58.4	ug/kg				MBL	03/28/98	1641
QC495798	BLANK	118924											
Lead						16.2	ug/kg				MBL	03/29/98	1134
QC495789	LCS	118922											
Lead			131000			133000	ug/kg		101	(77.1 - 116.)	MBL	03/28/98	1738
QC495794	LCS	118923											
Lead			127000			126000	ug/kg		99.6	(77.1 - 116.)	MBL	03/28/98	1647
QC495799	LCS	118924											
Lead			125000			128000	ug/kg		103	(77.1 - 116.)	MBL	03/29/98	1139
QC495791	9803581-20MS	118922											
Lead			49000	5520		36200	ug/kg		62.6	(56.3 - 135.)	MBL	03/28/98	1958
QC495796	9803581-39MS	118923											
Lead			45900	176000		397000	ug/kg		481**	(56.3 - 135.)	MBL	03/28/98	1919
QC495801	9803528-01MS	118924											
Lead			46300	7660		51000	ug/kg		93.6	(56.3 - 135.)	MBL	03/29/98	1156
QC495792	9803581-20MSD	118922											
Lead			49000	5520		42600	ug/kg	19.0	75.3	(0.00 - 34.0)	MBL	03/28/98	2003
QC495797	9803581-39MSD	118923											
Lead			48500	176000		441000	ug/kg	12.6	545	(0.00 - 34.0)	MBL	03/28/98	1925
QC495802	9803528-01MSD	118924											
Lead			46700	7660		52300	ug/kg	2.13	95.6	(0.00 - 34.0)	MBL	03/29/98	1202
QC495790	9803581-20SERIAL	118922											
Lead				5520		5670	ug/kg	2.79			MBL	03/28/98	1953
QC495795	9803581-39SERIAL	118923											
Lead				176000		189000	ug/kg	7.05			MBL	03/30/98	0611
QC495800	9803528-01SERIAL	118924											
Lead				7660		7470	ug/kg	2.44			MBL	03/29/98	1151

Notes

The qualifiers in this report are defined as follows:  
 J indicates presence of analyte < RL (Report Limit)  
 L indicates presence of analyte < DL (Detect Limit)

\* indicates that spike recovery limits do not apply when sample concentration exceeds spike conc by a factor of 4 or more

# CHAIN OF CUSTODY RECORD

9803581

Client Name/Facility Name				SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods														Use F or P in the boxes to indicate whether sample was filtered and/or preserved  CCL 31919  Remarks		
Collected by/Company				# OF CONTAINERS	pH, conductivity	MOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	MVA, TCP METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's		Cyanide	Coliform - specify type
SAMPLE ID	DATE	TIME	WELL SOIL COMP GRAB																	
01 Sport #630-1	3/24/98	09:00	X	1						X										NBCA 002SSZ511101
02 Sport #630-2	3/24/98	09:00	X	1						X										NBCA 002SSZ511201
03 Sport #630-3	3/24/98	09:05	X	1						X										NBCA 002SSZ511301
04 Sport #630-4	3/24/98	09:05	X	1						X										NBCA 002SSZ511401
05 Sport #630-5	3/24/98	09:12	X	1						X										NBCA 002SSZ511501
06 Sport #630-6	3/24/98	09:12	X	1						X										NBCA 002SSZ511601
07 Sport #630-7	3/24/98	09:15	X	1						X										NBCA 002SSZ511701
08 Sport #630-8	3/24/98	09:15	X	1						X										NBCA 002SSZ511801
09 Sport #630-9	3/24/98	09:20	X	1						X										NBCA 002SSZ511901
10 Sport #630-10	3/24/98	09:20	X	1						X										NBCA 002SSZ512001
11 Sport #630-11	3/24/98	09:25	X	1						X										NBCA 002SSZ512101
12 Sport #630-12	3/24/98	09:25	X	1						X										NBCA 002SSZ512201
13 Sport #630-13	3/24/98	09:29	X	1						X										NBCA 002SSZ512301
Relinquished by: <u>Math W. Jaffe</u>		Date: <u>3/24/98</u>	Time: <u>14:15</u>	Received by: <u>U. Washington</u>		Relinquished by: <u>William Washington</u>		Date: <u>3/24/98</u>	Time: <u>1500</u>	Received by: <u>Raymond Reed</u>										
Relinquished by: <u>Raymond Reed</u>		Date: <u>3/24/98</u>	Time: <u>15:30</u>	Received by lab by: <u>Name Unknown</u>		Date: <u>3/24/98</u>	Time: <u>1530</u>	Remarks:												

# CHAIN OF CUSTODY RECORD

Page 2 of 4

Client Name/Facility Name				SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods															Use F or P in the boxes to indicate whether sample was filtered and/or preserved	
Sport Env Det Chasw				# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Remarks
SAMPLE ID	DATE	TIME	WELL																	SOIL
-14	Sport #630-14	3/24/98	09:35	X							X									NBCA002552512401
-15	Sport #630-15	3/24/98	09:35	X							X									NBCA002552512501
-16	Sport #630-16	3/24/98	09:38	X							X									NBCA002552512601
-17	Sport #630-17	3/24/98	09:38	X							X									NBCA002552512701
-18	Sport #630-18	3/24/98	09:43	X							X									NBCA002552512801
-19	Sport #630-19	3/24/98	09:43	X							X									NBCA002552512901
-20	Sport #630-20	3/24/98	09:45	X							X									NBCA002552513001 Duplicate Sample
-21	Sport #630-21	3/24/98	09:45	X							X									NBCA002C52500101 Split Sample
-22	Sport #630-22	3/24/98	09:45	X							X									NBCA002I52500101 Split Sample
-23	Sport #630-23	3/24/98	09:45	X							X									NBCA002I52500201
-24	Sport #630-24	3/24/98	09:53	X							X									NBCA002552513101
-25	Sport #630-25	3/24/98	10:30	X							X									NBCA002552513201
-26	Sport #630-26	3/24/98	10:30	X							X									NBCA002552513301
Relinquished by: <i>Math W. [Signature]</i>				Date: 3/24/98	Time: 14:15	Received by: <i>V. W. [Signature]</i>				Relinquished by: <i>V. W. [Signature]</i>				Date: 3/24/98	Time: 15:00	Received by: <i>Raymond Reed</i>				
Relinquished by: <i>Raymond Reed</i>				Date: 3/24/98	Time: 15:30	Received by lab by: <i>D. [Signature]</i>				Date: 3/24/98	Time: 15:30	Remarks:								

White = sample collector    Yellow = file    Pink = with rep rt

# CHAIN OF CUSTODY RECORD

Client Name/Facility Name Sport Env Det Chasv		SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods											Remarks				
Collected by/Company Sport Env Det Chasv		pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	MUTAGENIC - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables		B/N Extractables	PCB's	Cyanide	Coliform - specify type
SAMPLE ID	DATE												TIME				
-54 Sport 0620-27	3/24/98	10:37	X														NBCA002552513401
-58 Sport 0620-28	3/24/98	14:05	X														NBCA002552513501
-59 Sport 0630-29	3/24/98	10:42	X														NBCA002552513601
-60 Sport 0630-30	3/24/98	10:42	X														NBCA002552513701
-61 Sport 0630-31	3/24/98	10:47	X														NBCA002552513801
-62 Sport 0630-32	3/24/98	10:47	X														NBCA002552513901
-63 Sport 0630-33	3/24/98	10:51	X														NBCA002552514001 514001 m.w.
-64 Sport 0630-34	3/24/98	10:51	X														NBCA002552514101 514101 m.w.
-65 Sport 0630-35	3/24/98	10:56	X														NBCA002552514201
-66 Sport 0630-36	3/24/98	10:56	X														NBCA002552514301 2552514301 m.w.
-67 Sport 0630-37	3/24/98	11:02	X														NBCA002552514401
-68 Sport 0630-38	3/24/98	11:02	X														NBCA002552514501
-69 Sport 0630-39	3/24/98	11:05	X														NBCA002552514601
Relinquished by: Math W. [Signature]		Date: 3/24/98	Time: 14:15	Received by: U. Washington				Relinquished by: U. Washington				Date: 3/24/98	Time: 15:00	Received by: Raymond Reed			
Relinquished by: Raymond Reed		Date: 3/24/98	Time: 15:30	Received by lab by: Dionne Francis				Date: 3/24/98	Time: 15:30	Remarks:							

White = sample collector    Yellow = file    Pink = with report

# CHAIN OF CUSTODY RECORD

Client Name/Facility Name		Collected by/Company				# OF CONTAINERS	SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods														Remarks		
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP		GRAB	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	SEMI-METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's		Cyanide	Caliform - specify type
-40 Sport 0630-40	3/24/98	11:25	X			1							X										NBCA002552514701
-41 Sport 0630-41	3/24/98	11:30	X			1							X										NBCA002552514801
-42 Sport 0630-42	3/24/98	11:14	X			1							X										NBCA002552514901
-43 Sport 0630-43	3/24/98	11:32	X			1							X										NBCA002552515001 Duplicate Sample
-44 Sport 0630-44	3/24/98	11:32	X			1							X										NBCA002552500201 Split Sample
-45 Sport 0630-45	3/24/98	11:32	X			1							X										NBCA002552500301 split Sample
-46 Sport 0630-46	3/24/98	11:32	X			1							X										NBCA002552500401
-47 Sport 0630-47	3/24/98	11:19	X			1							X										NBCA002552515101
-48 Sport 0630-48	3/24/98	11:52	X			1							X										NBCA002552515201
-49 Sport 0630-49	3/24/98	11:42	X			1							X										NBCA002552515301
Relinquished by: <i>Matthew W. Jeff</i>			Date: <i>3/24/98</i>	Time: <i>14:15</i>	Received by: <i>U. Washington</i>			Relinquished by: <i>U. Washington</i>			Date: <i>3/24/98</i>	Time: <i>11:44</i>	Received by: <i>Raymond Reed</i>										
Relinquished by: <i>Raymond Reed</i>			Date: <i>3/24/98</i>	Time: <i>1530</i>	Received by lab by: <i>Donna Francis</i>			Date: <i>3/24/98</i>	Time: <i>1530</i>	Remarks:													



# GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-1  
 Lab ID : 9803642-01  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		182000	62.8	463	ug/kg	2.0	MBL	03/30/98	1552	119057	1

**The following prep procedures were performed:**

TRACE

VMM 03/27/98 1200 119057 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

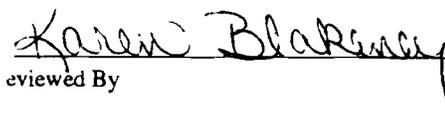
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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.

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.

  
 Reviewed By





# GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-2  
 Lab ID : 9803642-02  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		54900	63.3	467	ug/kg	2.0	MBL	03/30/98	1557	119057	1

**The following prep procedures were performed:**

TRACE

VMM 03/27/98 1200 119057 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

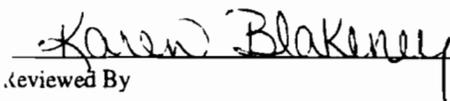
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

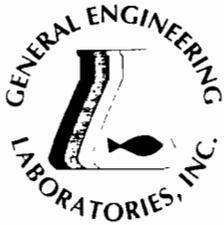
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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 Reviewed By





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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-3  
 Lab ID : 9803642-03  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		68900	64.5	476	ug/kg	2.0	MBL	03/30/98	1603	119057	1

**The following prep procedures were performed:**

TRACE VMM 03/27/98 1200 119057 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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*Karen Blakeney*  
 \_\_\_\_\_  
 Reviewed By





# GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-4  
 Lab ID : 9803642-04  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		171000	64.0	472	ug/kg	2.0	MBL	03/30/98	1609	119057	1

**The following prep procedures were performed:**

TRACE

VMM 03/27/98 1200 119057 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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*Karen Blakeney*  
 Reviewed By





# GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-5  
 Lab ID : 9803642-05  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		11600	62.2	459	ug/kg	2.0	MBL	03/30/98	1615	119057	1

**The following prep procedures were performed:**

TRACE

VMM 03/27/98 1200 119057 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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 Reviewed By





# GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-6  
 Lab ID : 9803642-06  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		353000	67.1	495	ug/kg	2.0	MBL	03/30/98	1620	119057	1

The following prep procedures were performed:

TRACE

VMM 03/27/98 1200 119057 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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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.

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 Reviewed By





# GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-7  
 Lab ID : 9803642-07  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		342000	65.2	481	ug/kg	2.0	MBL	03/30/98	1626	119057	1

The following prep procedures were performed:  
 TRACE

VMM 03/27/98 1200 119057 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes:

The qualifiers in this report are defined as follows:

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

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.

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.

Karen Blakeney  
 Reviewed By





# GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-8  
 Lab ID : 9803642-08  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		7340	62.2	459	ug/kg	2.0	MBL	03/30/98	1632	119057	1

The following prep procedures were performed:  
 TRACE

VMM 03/27/98 1200 119057 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

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

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.

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-9  
 Lab ID : 9803642-09  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		7770	62.8	463	ug/kg	2.0	MBL	03/30/98	1649	119057	1

**The following prep procedures were performed:**

TRACE

VMM 03/27/98 1200 119057 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

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

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-10  
 Lab ID : 9803642-10  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		1240000	64.0	472	ug/kg	2.0	MBL	03/30/98	1655	119057	1

The following prep procedures were performed:  
 TRACE

VMM 03/27/98 1200 119057 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

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

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

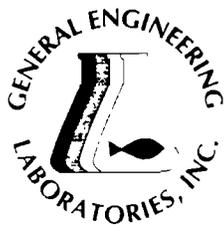
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-11  
 Lab ID : 9803642-11  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		1530000	62.2	459	ug/kg	2.0	MBL	03/30/98	1701	119057	1

**The following prep procedures were performed:**

TRACE

VMM 03/27/98 1200 119057 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

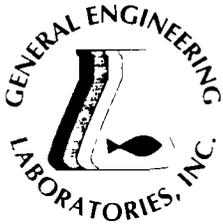
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-12  
 Lab ID : 9803642-12  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		2470000	66.4	490	ug/kg	2.0	MBL	03/30/98	1707	119057	1

The following prep procedures were performed:  
 TRACE

VMM 03/27/98 1200 119057 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes:

The qualifiers in this report are defined as follows:

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

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

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 01, 1998

Page 1 of 1

Sample ID : SPORT0632-13  
 Lab ID : 9803642-13  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		444000	67.8	500	ug/kg	2.0	MBL	03/30/98	1712	119057	1

**The following prep procedures were performed:**

TRACE VMM 03/27/98 1200 119057 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

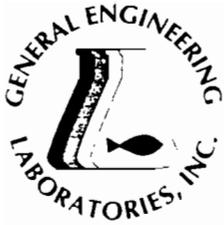
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FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 06, 1998

Page 1 of 1

Sample ID : SPORT0632-14  
 Lab ID : 9803642-14  
 Matrix : Soil  
 Date Collected : 03/25/98  
 Date Received : 03/26/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		553000	664	4900	ug/kg	10.	MBL	04/03/98	0932	119312	1

The following prep procedures were performed:  
 TRACE

FGD 04/01/98 1600 119312 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes.

The qualifiers in this report are defined as follows:

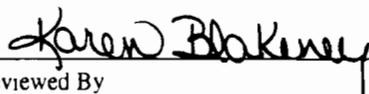
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 any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

  
 Reviewed By



QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9803642%

Report Date: April 06, 1998

Page 2 of 2

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
------------------	------	-------	-----	--------	------	----	-------	------	------	-------	---------	------	------

Notes:

The qualifiers in this report are defined as follows:

J indicates presence of analyte < RL (Report Limit)

U indicates presence of analyte < DL (Detect Limit)

n/a indicates that spike recovery limits do not apply when  
sample concentration exceeds spike conc by a factor of 4 or more

NPWC 7197

General Engineering Laboratories, Inc.  
 2040 Savage Road  
 Charleston, South Carolina 29407  
 P.O. Box 30712  
 Charleston, South Carolina 29417  
 (803) 556-8171

# CHAIN OF CUSTODY RECORD

9803642

Page 1 of 4

Client Name/Facility Name		SAMPLE ANALYSIS REQUIRED (X) - use remarks area to specify specific compounds or methods										Use F or P in the boxes to indicate whether sample was filtered and/or preserved						
Sport Env Det Chas N												CCL 31964						
Collected by/Company		# OF CONTAINERS	pH	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method Required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Remarks
SAMPLE ID	DATE																	
-01	Sport 0632-1	3/25/98	08:50	X					X									NBCA002SSZ615401
-02	Sport 0632-2	3/25/98	08:50	X					X									NBCA002SSZ615501
-03	Sport 0632-3	3/25/98	08:59	X					X									NBCA002SSZ615601
-04	Sport 0632-4	3/25/98	09:10	X					X									NBCA002SSZ615701
-05	Sport 0632-5	3/25/98	09:10	X					X									NBCA002SSZ615801
-06	Sport 0632-6	3/25/98	09:10	X					X									NBCA002SSZ615901
-07	Sport 0632-7	3/25/98	09:13	X					X									NBCA002SSZ616001
-08	Sport 0632-8	3/25/98	09:18	X					X									NBCA002SSZ616101
-09	Sport 0632-9	3/25/98	09:18	X					X									NBCA002SSZ616201
-10	Sport 0632-10	3/25/98	09:18	X					X									NBCA002SSZ616301
-11	Sport 0632-11	3/25/98	09:25	X					X									NBCA002SSZ616401
-12	Sport 0632-12	3/25/98	09:28	X					X									NBCA002SSZ616501
-13	Sport 0632-13	3/25/98	09:43	X					X									NBCA002SSZ616601
Relinquished by: <i>Math W. Jeff</i>		Date: 3/26/98	Time: 13:37	Received by: <i>W.R. Hiers, Jr.</i>		Relinquished by: <i>W.R. Hiers, Jr.</i>		Date: 3/26/98	Time: 1531	Received by: <i>Stephano Beledon</i>								
Relinquished by: <i>Stephano Beledon</i>		Date: 3/26/98	Time: 1600	Received by lab by: <i>Deanne Francis</i>		Date: 3/26/98	Time: 1600	Remarks:										

White = sampl collector    Yellow = file    Pink = with report

# CHAIN OF CUSTODY RECORD

Client Name/Facility Name Sport ENV Det Chasrn							SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods																	Use F or P in the boxes to indicate whether sample was filtered and/or preserved
Collected by/Company Sport ENV Det Chasrn							# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	LEAD, COPPER, METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Colliform - specify type	Remarks	
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB																		
-14	Sport 0632-14	3/25/98	09:48	X			1																	NBCA002SSZ616701
-15	Sport 0632-15	3/25/98	09:32	X			1																	NBCA002SSZ616801
-16	Sport 0632-16	3/25/98	09:32	X			1																	NBCA002SSZ616901
-17	Sport 0632-17	3/25/98	09:43	X			1																	NBCA002SSZ617001
-18	Sport 0632-18	3/25/98	09:53	X			1																	NBCA002SSZ617101
-19	Sport 0632-19	3/25/98	09:53	X			1																	NBCA002SSZ617201
-20	Sport 0632-20	3/25/98	10:03	X			1																	NBCA002SSZ617301
-21	Sport 0632-21	3/25/98	10:21	X			1																	NBCA002SSZ617401
-22	Sport 0632-22	3/25/98	14:40	X			1																	NBCA002SSZ617501
-23	Sport 0632-23	3/25/98	14:40	X			1																	NBCA002SSZ617601
-24	Sport 0632-24	3/25/98	10:21	X			1																	NBCA002SSZ617701
-25	Sport 0632-25	3/25/98	10:21	X			1																	NBCA002SSZ617801
-26	Sport 0632-26	3/25/98	10:00	X			1																	NBCA002SSZ617901
Relinquished by: <i>Matthew W. Jeff</i>			Date: 3/26/98	Time: 1337	Received by: <i>W.R. Hiery, Jr.</i>			Relinquished by: <i>W.R. Hiery, Jr.</i>			Date: 3/26/98	Time: 1531	Received by: <i>Stephano Dalcin</i>											
Relinquished by: <i>Stephano Dalcin</i>			Date: 3/26/98	Time: 1600	Received by lab by: <i>Dorine Thomas</i>			Date: 3/26/98	Time: 1600	Remarks:														

White = sample collector    Yellow = file    Pink = with report

# CHAIN OF CUSTODY RECORD

Client Name/Facility Name Sport Env Det Chasn		Collected by/Company Sport Env Det Chasn				# OF CONTAINERS	SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods																	Use F or P in the boxes to indicate whether sample was filtered and/or preserved	Remarks
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP		GRAB	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	LEAD, PCB METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type			
-27	Sport 0632-27	3/25/98	14:45	X			1						X												NBCA002SSZ618001
-28	Sport 0632-28	3/25/98	14:55	X			1						X												NBCA002SSZ618101
-29	Sport 0632-29	3/25/98	14:55	X			1						X												NBCA002SSZ618201
-30	Sport 0632-30	3/25/98	09:29	X			1						X												NBCA002SSZ618301
-31	Sport 0632-31	3/25/98	09:40	X			1						X												NBCA002SSZ618401
-32	Sport 0632-32	3/25/98	09:52	X			1						X												NBCA002SSZ618501
-33	Sport 0632-33	3/25/98	09:32	X			1						X												NBCA002SSZ618601
-34	Sport 0632-34	3/25/98	09:40	X			1						X												NBCA002SSZ618701
-35	Sport 0632-35	3/25/98	10:01	X			1						X												NBCA002SSZ618801
-36	Sport 0632-36	3/25/98	10:16	X			1						X												NBCA002SSZ618901
-37	Sport 0632-37	3/25/98	10:10	X			1						X												NBCA002SSZ619001
-38	Sport 0632-38	3/25/98	10:33	X			1						X												NBCA002SSZ619101
-39	Sport 0632-39	3/25/98	10:49	X			1						X												NBCA002SSZ619201
Relinquished by: <i>Math w. Jeff</i>		Date: 3/26/98	Time: 1337	Received by: <i>W.R. Hiery, Jr.</i>		Date: 3/26/98	Time: 1531	Received by: <i>Stephano Beletan</i>																	
Relinquished by: <i>Stephano Beletan</i>		Date: 3/20/98	Time: 1600	Received by lab by: <i>Junie Franco</i>		Date: 3/26/98	Time: 1600	Remarks: <i>3/26/98</i>																	

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0630-1  
 Lab ID : 9803581-01  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		142000	62.8	463	ug/kg	2.0	MBL	03/28/98	1744	118922	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118922 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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TN	02934	02934

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: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPOR0636-1  
 Lab ID : 9804023-01  
 Matrix : Soil  
 Date Collected : 03/27/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		6640	65.2	481	ug/kg	2.0	MBL	04/03/98	1818	119392	1

**The following prep procedures were performed:**

TRACE

FGD 04/02/98 1630 119392 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

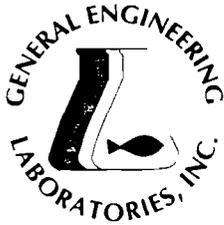
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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.

  
 Reviewed By





# GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

### Laboratory Certifications

STATE	GEL	EPI
FL	ES7156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPORTO636-2  
 Lab ID : 9804023-02  
 Matrix : Soil  
 Date Collected : 03/27/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		12400	65.2	481	ug/kg	2.0	MBL	04/03/98	1824	119392	1

**The following prep procedures were performed:**

TRACE

FGD 04/02/98 1630 119392 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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 Reviewed By





# GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPORO636-3  
 Lab ID : 9804023-03  
 Matrix : Soil  
 Date Collected : 03/27/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		14700	65.2	481	ug/kg	2.0	MBL	04/03/98	1829	119392	1

**The following prep procedures were performed:**

TRACE FGD 04/02/98 1630 119392 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes.**

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: April 07, 1998

Page 1 of 1

Sample ID : SPOR0636-4  
 Lab ID : 9804023-04  
 Matrix : Soil  
 Date Collected : 03/27/98  
 Date Received : 04/01/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		7570	63.3	467	ug/kg	2.0	MBL	04/03/98	1834	119392	1

**The following prep procedures were performed:**

TRACE

FGD 04/02/98 1630 119392 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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 Reviewed By



# SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S8-82017  
 Received: 10 APR 98  
 Reported: 20 APR 98

Mr. Fred McLean  
 Environmental Detachment Charleston  
 1899 N. Hobson Avenue  
 N. Charleston, SC 29405-2106

Client PO. No.: CNS117230C007

Project: N00193-97-M-1208/SA-27  
 Sampled By: Client  
 Code: 154880420

## REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED				
82017-1	98SAV002-1	03-25-98/1003				
82017-2	98SAV002-2	03-25-98/1003				
82017-3	98SAV002-3	03-26-98/1111				
82017-4	98SAV002-4	03-26-98/1111				
82017-5	98SAV002-5	03-30-98/1353				
PARAMETER		82017-1	82017-2	82017-3	82017-4	82017-5
Lead (6010)						
Lead, mg/kg dw		130	160	77	61	2.0
Preparation Date		04.13.98	04.13.98	04.13.98	04.13.98	04.13.98
Date Analyzed		04.14.98	04.14.98	04.14.98	04.14.98	04.14.98
Dilution factor		1.0	1.0	1.0	1.0	1.0
Batch ID		0413A	0413A	0413A	0413A	0413A
Percent Solids		82	82	83	86	62

# SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S8-82017  
Received: 10 APR 98  
Reported: 20 APR 98

Mr. Fred McLean  
Environmental Detachment Charleston  
1899 N. Hobson Avenue  
N. Charleston, SC 29405-2106

Client PO. No.: CNS117230C007

Project: N00193-97-M-1208/SA-27  
Sampled By: Client  
Code: 154880420

## REPORT OF RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED				
82017-6	98SAV002-6	03-30-98/1353				
82017-7	98SAV002-7	03-31-98/1100				
82017-8	98SAV002-8	03-31-98/1015				
82017-9	98SAV002-9	04-01-98/1500				
82017-10	98SAV002-10	04-01-98/1324				
PARAMETER		82017-6	82017-7	82017-8	82017-9	82017-10
Lead (6010)						
Lead, mg/kg dw		1.5	88	2100	10	4.4
Preparation Date		04.13.98	04.13.98	04.13.98	04.13.98	04.13.98
Date Analyzed		04.14.98	04.14.98	04.15.98	04.14.98	04.14.98
Dilution factor		1.0	1.0	5.0	1.0	1.0
Batch ID		0413A	0413A	0413A	0413A	0413A
Percent Solids		63	84	86	83	87

**SL SAVANNAH LABORATORIES**  
**& ENVIRONMENTAL SERVICES, INC.**

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Page 3

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	
82017-11	98SAV002-11	04-01-98/1020	
82017-12	98SAV002-12	04-01-98/0835	
PARAMETER		82017-11	82017-12
Lead (6010)			
Lead, mg/kg dw		9.7	6.3
Preparation Date		04.13.98	04.13.98
Date Analyzed		04.14.98	04.14.98
Dilution factor		1.0	1.0
Batch ID		0413A	0413A
Percent Solids		87	86

**SL SAVANNAH LABORATORIES**  
**& ENVIRONMENTAL SERVICES, INC.**

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

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Client PO. No.: CNS117230C007

Project: N00193-97-M-1208/SA-27  
 Sampled By: Client  
 Code: 154880420

REPORT OF RESULTS

Page 4

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED		
82017-13	Method Blank			
82017-14	Lab Control Standard % Recovery			
82017-15	LCS Accuracy Control Limit (%R)			
PARAMETER		82017-13	82017-14	82017-15
Lead (6010)				
Lead, mg/kg dw		<0.50	106 %	75-125 %
Preparation Date		04.13.98	---	---
Date Analyzed		04.14.98	---	---
Dilution factor		1.0	---	---
Batch ID		0413A	---	---

Methods: EPA SW-846



Michael J. Salum, Project Manager

Final Page Of Report

# SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC

- 102 LaRoche Avenue, Savannah, GA 31404
- 2846 Industrial Plaza Drive, Tallahassee, FL 32301
- 414 SW 12th Avenue, Deerfield Beach, FL 33442
- 900 Lakeside Drive, Mobile, AL 36693
- 6712 Benjamin Road, Suite 100, Tampa, FL 33634
- 100 Alpha Drive, Suite 110, Destrehan, LA 70047

- Phone: (912) 354-7858 Fax: (912) 352-0165
- Phone: (904) 878-3994 Fax: (904) 878-9504
- Phone: (954) 421-7400 Fax: (954) 421-2584
- Phone: (334) 666-6633 Fax: (334) 666-6696
- Phone: (813) 885-7427 Fax: (813) 885-7049
- Phone: (504) 764-1100 Fax: (504) 725-1163

## ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Mike SALUM/Abbie PAGE

PROJECT REFERENCE <b>N00193-97-M-1208</b>	PROJECT NO <b>S-2</b>	PO NUMBER <b>CNS 117230C007</b>	MATRIX TYPE	REQUIRED ANALYSES	PAGE 1	OF 1
--	--------------------------	------------------------------------	-------------	-------------------	--------	------

PROJECT LOC (State) <b>S.C.</b>	SAMPLER(s) NAME <b>M. Wheeler</b>	PHONE <b>803-743-2821 ext 126</b>	FAX <b>803-743-9413</b>	
------------------------------------	--------------------------------------	--------------------------------------	----------------------------	--

CLIENT NAME <b>SPORTS VORT CUMSN</b>	CLIENT PROJECT MANAGER <b>Tom Kizer / Fred M-Lean</b>
---	--

CLIENT ADDRESS (CITY, STATE, ZIP) <b>1899 NORTH HOBSON AVE., BLDG. 30 NORTH CHARLESTON, S.C. 29405</b>
---

SAMPLE	SL NO.	SAMPLE IDENTIFICATION	AQUEOUS (WATER)	SOLID OR SEMISOLID	NONAQUEOUS LIQUID (oil solvent, etc)	AIR	ICP-LEAD ONLY	STANDARD REPORT DELIVERY <input checked="" type="checkbox"/>	EXPEDITED REPORT DELIVERY (surcharge) <input type="checkbox"/>	Date Due
--------	--------	-----------------------	-----------------	--------------------	--------------------------------------	-----	---------------	--	--	----------

DATE	TIME	SL NO.	SAMPLE IDENTIFICATION	AQUEOUS (WATER)	SOLID OR SEMISOLID	NONAQUEOUS LIQUID (oil solvent, etc)	AIR	ICP-LEAD ONLY	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/25/99	1003		98SAV002-1	x				1		NBCA002IS260010
3/25/99	1003		98SAV002-2	x				1		NBCA002IS2600201
3/26/99	1111		98SAV002-3	x				1		NBCA002IS2600301
3/26/99	1111		98SAV002-4	x				1		NBCA002IS2600401
3/30/99	1353		98SAV002-5	x				1		NBCA002IS2400102
5/30/99	1353		98SAV002-6	x				1		NBCA002IS2400202
3/31/99	1100		98SAV002-7	x				1		NBCA002IS24007102
3/31/99	1015		98SAV002-8	x				1		NBCA002IS2009501
4/1/99	1500		98SAV002-9	x				1		NBCA002IS2800101
4/1/99	1324		98SAV002-10	x				1		NBCA002IS27019901
4/1/99	1020		98SAV002-11	x				1		NBCA002IS22802401
4/1/99	0835		98SAV002-12	x				1		NBCA002IS28022601
				x				1		

RELINQUISHED BY (SIGNATURE) <i>Michael P. Wheeler</i>	DATE 4/8/99	TIME 1500	RELINQUISHED BY (SIGNATURE) <i>Fred &amp; Mike</i>	DATE 4/9/99	TIME 1600	RELINQUISHED BY (SIGNATURE)	DATE	TIME
RECEIVED BY (SIGNATURE) <i>Fred &amp; Mike</i>	DATE 4/8/99	TIME 1500	RECEIVED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME

### LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>C. Vasquez</i>	DATE 4/10/99	TIME 9:28	CUSTODY INTACT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	CUSTODY SEAL NO.	SL LOG NO. 58-82017	LABORATORY REMARKS:
--	-----------------	--------------	---	------------------	------------------------	---------------------

**SL SAVANNAH LABORATORIES**  
**& ENVIRONMENTAL SERVICES, INC.**

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S8-82282  
 Received: 23 APR 98  
 Reported: 04 MAY 98

Mr. Mike Wheeler  
 Environmental Detachment Charleston  
 1899 N. Hobson Avenue  
 N. Charleston, SC 29405-2106

Client PO. No.: CNS117230C007

Project: N00193-97-M-1208/S-2  
 Sampled By: Client  
 Code: 12058056

REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
82282-1	98-SAV004-1	04-21-98/1402
PARAMETER	82282-1	
Lead (6010)		
Lead, mg/kg dw		2400
Preparation Date		04.24.98
Date Analyzed		05.01.98
Dilution factor		10.0
Batch ID		0424C
Percent Solids		79

LOG NO: S8-82282  
 Received: 23 APR 98  
 Reported: 04 MAY 98

Mr. Mike Wheeler  
 Environmental Detachment Charleston  
 1899 N. Hobson Avenue  
 N. Charleston, SC 29405-2106

Client PO. No.: CNS117230C007

Project: N00193-97-M-1208/S-2  
 Sampled By: Client  
 Code: 12058056

Page 2

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
82282-2	98SAV004-2	04-21-98/1500
PARAMETER	82282-2	
Semivolatile Organics (8270)		
Naphthalene, ug/kg dw		<330
Acenaphthylene, ug/kg dw		<330
Acenaphthene, ug/kg dw		610
Fluorene, ug/kg dw		<330
Phenanthrene, ug/kg dw		<330
Anthracene, ug/kg dw		<330
Fluoranthene, ug/kg dw		<330
Pyrene, ug/kg dw		<330
Chrysene, ug/kg dw		<330
Benzo(a)anthracene, ug/kg dw		<330
Benzo(b)fluoranthene, ug/kg dw		<330
Benzo(k)fluoranthene, ug/kg dw		<330
Benzo(a)pyrene, ug/kg dw		<330
Indeno(1,2,3-cd)pyrene, ug/kg dw		<330
Dibenzo(a,h)anthracene, ug/kg dw		<330
Benzo(g,h,i)perylene, ug/kg dw		<330
2-Methylnaphthalene, ug/kg dw		<330
Surrogate-2FBP		50 %
Surrogate-NBZ		44 %
Surrogate-TPH		59 %
Date Extracted		04.27.98
Date Analyzed		05.02.98
Dilution factor		1.0
Batch ID		0427D

**SL SAVANNAH LABORATORIES**  
**& ENVIRONMENTAL SERVICES, INC.**

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S8-82282  
 Received: 23 APR 98  
 Reported: 04 MAY 98

Mr. Mike Wheeler  
 Environmental Detachment Charleston  
 1899 N. Hobson Avenue  
 N. Charleston, SC 29405-2106

Client PO. No.: CNS117230C007

Project: N00193-97-M-1208/S-2  
 Sampled By: Client  
 Code: 12058056

Page 3

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
82282-2	98SAV004-2	04-21-98/1500
PARAMETER	82282-2	
Percent Solids		99

**SL SAVANNAH LABORATORIES**  
**& ENVIRONMENTAL SERVICES, INC.**

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S8-82282  
 Received: 23 APR 98  
 Reported: 04 MAY 98

Mr. Mike Wheeler  
 Environmental Detachment Charleston  
 1899 N. Hobson Avenue  
 N. Charleston, SC 29405-2106

Client PO. No.: CNS117230C007

Project: N00193-97-M-1208/S-2  
 Sampled By: Client  
 Code: 12058056

Page 4

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED		
82282-3	Method Blank			
82282-4	Lab Control Standard % Recovery			
82282-5	LCS Accuracy Control Limit (%R)			
PARAMETER		82282-3	82282-4	82282-5
Lead (6010)				
Lead, mg/kg dw		<0.50	100 %	75-125 %
Preparation Date		04.24.98	---	---
Date Analyzed		04.26.98	---	---
Dilution factor		1.0	---	---
Batch ID		0424C	---	---

LOG NO: S8-82282  
 Received: 23 APR 98  
 Reported: 04 MAY 98

Mr. Mike Wheeler  
 Environmental Detachment Charleston  
 1899 N. Hobson Avenue  
 N. Charleston, SC 29405-2106

Client PO. No.: CNS117230C007

Project: N00193-97-M-1208/S-2  
 Sampled By: Client  
 Code: 12058056

REPORT OF RESULTS

Page 5

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED		
82282-3	Method Blank			
82282-4	Lab Control Standard % Recovery			
82282-5	LCS Accuracy Control Limit (%R)			
PARAMETER		82282-3	82282-4	82282-5
Semivolatile Organics (8270)				
Naphthalene, ug/kg dw		<330	---	---
Acenaphthylene, ug/kg dw		<330	---	---
Acenaphthene, ug/kg dw		<330	59 %	28-102 %
Fluorene, ug/kg dw		<330	---	---
Phenanthrene, ug/kg dw		<330	---	---
Anthracene, ug/kg dw		<330	---	---
Fluoranthene, ug/kg dw		<330	---	---
Pyrene, ug/kg dw		<330	65 %	18-136 %
Chrysene, ug/kg dw		<330	---	---
Benzo(a)anthracene, ug/kg dw		<330	---	---
Benzo(b)fluoranthene, ug/kg dw		<330	---	---
Benzo(k)fluoranthene, ug/kg dw		<330	---	---
Benzo(a)pyrene, ug/kg dw		<330	---	---
Indeno(1,2,3-cd)pyrene, ug/kg dw		<330	---	---
Dibenzo(a,h)anthracene, ug/kg dw		<330	---	---
Benzo(g,h,i)perylene, ug/kg dw		<330	---	---
2-Methylnaphthalene, ug/kg dw		<330	---	---
Surrogate-2FBP		47 %	53 %	24-118 %
Surrogate-NBZ		42 %	56 %	12-125 %
Surrogate-TPH		58 %	54 %	18-153 %
Date Extracted		04.27.98	---	---
Date Analyzed		05.02.98	---	---
Dilution factor		1.0	---	---
Batch ID		0427D	---	---

# SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

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Client PO. No.: CNS117230C007

Project: N00193-97-M-1208/S-2  
Sampled By: Client  
Code: 12058056

Page 6

## REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
82282-3	Method Blank	
82282-4	Lab Control Standard % Recovery	
82282-5	LCS Accuracy Control Limit (%R)	
PARAMETER		82282-3      82282-4      82282-5

Methods: EPA SW-846



Michael J. Salum Project Manager

Final Page Of Report





# GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0608-1  
 Lab ID : 9803538-01  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		16800	65.8	485	ug/kg	2.0	MBL	03/28/98	2037	118920	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118920 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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

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

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.

  
 Reviewed By





# GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: March 31, 1998

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Sample ID : SPORT0608-2  
 Lab ID : 9803538-02  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		2290	62.8	463	ug/kg	2.0	MBL	03/28/98	2042	118920	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118920 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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 North Charleston, South Carolina 29405-2106

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Report Date: March 31, 1998

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Sample ID : SPORT0608-3  
 Lab ID : 9803538-03  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		4840	67.1	495	ug/kg	2.0	MBL	03/28/98	2047	118920	1

**The following prep procedures were performed:**

TRACE VMM 03/26/98 1500 118920 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

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 North Charleston, South Carolina 29405-2106

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Project Description: SUPSHIP-Portsmouth Detachment

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Sample ID : SPORT0608-4  
 Lab ID : 9803538-04  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		5230	62.2	459	ug/kg	2.0	MBL	03/28/98	2053	118920	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118920 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

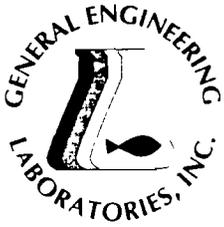
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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Sample ID : SPORT0608-5  
 Lab ID : 9803538-05  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		5270	67.1	495	ug/kg	2.0	MBL	03/28/98	2058	118920	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118920 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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Sample ID : SPORT0608-6  
 Lab ID : 9803538-06  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		69700	65.2	481	ug/kg	2.0	MBL	03/28/98	2103	118920	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118920 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes:**

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Sample ID : SPORT0608-7  
 Lab ID : 9803538-07  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		19100	62.8	463	ug/kg	2.0	MBL	03/28/98	2109	118920	1

**The following prep procedures were performed:**

TRACE VMM 03/26/98 1500 118920 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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Sample ID : SPORT0608-8  
Lab ID : 9803538-08  
Matrix : Soil  
Date Collected : 03/23/98  
Date Received : 03/23/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		5300	62.2	459	ug/kg	2.0	MBL	03/28/98	2114	118920	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118920 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
M 2 EPA 3050

**Notes:**

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Sample ID : SPORT0608-9  
 Lab ID : 9803538-09  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		4610	67.8	500	ug/kg	2.0	MBL	03/28/98	2130	118920	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118920 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

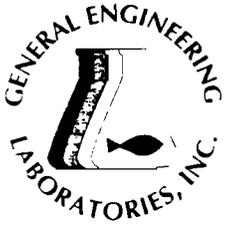
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: March 31, 1998

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Sample ID : SPORT0608-10  
 Lab ID : 9803538-10  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		12400	67.1	495	ug/kg	2.0	MBL	03/28/98	2136	118920	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118920 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

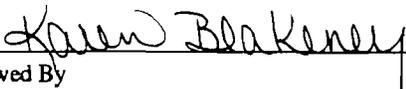
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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Sample ID : SPORT0608-11  
 Lab ID : 9803538-11  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		5560	65.8	485	ug/kg	2.0	MBL	03/28/98	2141	118920	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118920 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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Sample ID : SPORT0608-12  
 Lab ID : 9803538-12  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		4370	67.1	495	ug/kg	2.0	MBL	03/28/98	2146	118920	1

**The following prep procedures were performed:**

TRACE VMM 03/26/98 1500 118920 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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Sample ID : SPORT0608-13  
 Lab ID : 9803538-13  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		3660	62.8	463	ug/kg	2.0	MBL	03/28/98	2152	118920	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118920 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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

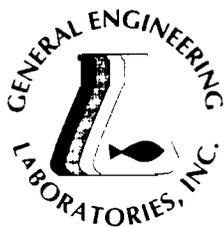
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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Sample ID : SPORT0608-14  
 Lab ID : 9803538-14  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		5210	66.4	490	ug/kg	2.0	MBL	03/28/98	2157	118920	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118920 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

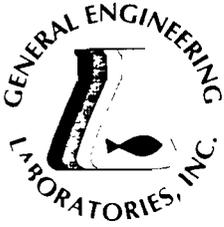
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Sample ID : SPORT0608-15  
 Lab ID : 9803538-15  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		4480	63.3	467	ug/kg	2.0	MBL	03/28/98	2202	118920	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118920 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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Sample ID : SPORT0608-16  
 Lab ID : 9803538-16  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		687000	64.0	472	ug/kg	2.0	MBL	03/28/98	2208	118920	1

**The following prep procedures were performed:**

TRACE VMM 03/26/98 1500 118920 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

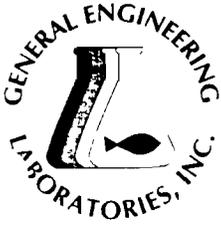
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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*Karen Blakeney*  
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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

**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: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

**Sample ID** : SPORT0608-17  
**Lab ID** : 9803538-17  
**Matrix** : Soil  
**Date Collected** : 03/23/98  
**Date Received** : 03/23/98  
**Priority** : Routine  
**Collector** : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		5010	66.4	490	ug/kg	2.0	MBL	03/28/98	2214	118920	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118920 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

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NC	233	
SC	10120	10582
TN	02934	02934

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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

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Sample ID : SPORT0608-18  
 Lab ID : 9803538-18  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		3260	64.0	472	ug/kg	2.0	MBL	03/28/98	2219	118920	1

The following prep procedures were performed:  
 TRACE

VMM 03/26/98 1500 118920 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes:

The qualifiers in this report are defined as follows:

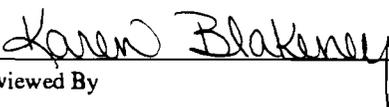
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

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Sample ID : SPORT0608-19  
 Lab ID : 9803538-19  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		43700	65.2	481	ug/kg	2.0	MBL	03/28/98	2236	118920	1

The following prep procedures were performed:  
 TRACE

VMM 03/26/98 1500 118920 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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

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

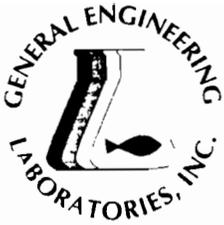
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0608-20  
 Lab ID : 9803538-20  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		4380	65.8	485	ug/kg	2.0	MBL	03/28/98	2241	118920	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118920 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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Report Date: March 31, 1998

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Sample ID : SPORT0608-21  
 Lab ID : 9803538-21  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		13800	64.0	472	ug/kg	2.0	MBL	03/27/98	1732	118921	1

**The following prep procedures were performed:**

TRACE VMM 03/26/98 1500 118921 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: March 31, 1998

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Sample ID : SPORT0608-22  
 Lab ID : 9803538-22  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		8550	62.8	463	ug/kg	2.0	MBL	03/27/98	1738	118921	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118921 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0608-23  
 Lab ID : 9803538-23  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		9480	64.5	476	ug/kg	2.0	MBL	03/27/98	1744	118921	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118921 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

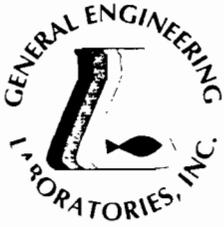
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NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0608-24  
 Lab ID : 9803538-24  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		5380	65.8	485	ug/kg	2.0	MBL	03/27/98	1749	118921	1

The following prep procedures were performed:  
 TRACE

VMM 03/26/98 1500 118921 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0608-25  
 Lab ID : 9803538-25  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		4590	64.5	476	ug/kg	2.0	MBL	03/27/98	1755	118921	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118921 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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 North Charleston, South Carolina 29405-2106

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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0608-26  
 Lab ID : 9803538-26  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		23600	63.3	467	ug/kg	2.0	MBL	03/27/98	1801	118921	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118921 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Sample ID : SPORT0608-27  
 Lab ID : 9803538-27  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		6810	62.8	463	ug/kg	2.0	MBL	03/27/98	1807	118921	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118921 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

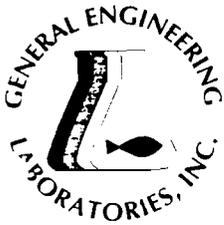
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Report Date: March 31, 1998

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Sample ID : SPORT0608-28  
 Lab ID : 9803538-28  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		220000	66.4	490	ug/kg	2.0	MBL	03/27/98	1813	118921	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118921 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

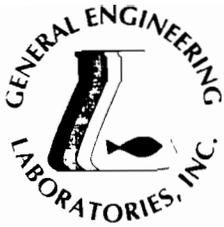
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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

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Sample ID : SPORT0608-29  
 Lab ID : 9803538-29  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		1900000	63.3	467	ug/kg	2.0	MBL	03/27/98	1832	118921	1

The following prep procedures were performed:

TRACE

VMM 03/26/98 1500 118921 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

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Sample ID : SPORT0608-30  
 Lab ID : 9803538-30  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		356000	65.8	485	ug/kg	2.0	MBL	03/27/98	1838	118921	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118921 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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.

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0608-31  
 Lab ID : 9803538-31  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		841000	64.0	472	ug/kg	2.0	MBL	03/27/98	1844	118921	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118921 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

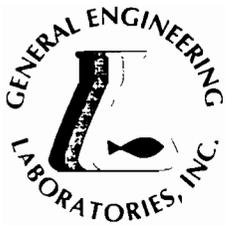
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 1899 North Hobson Ave.  
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0608-32  
 Lab ID : 9803538-32  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		4220	65.8	485	ug/kg	2.0	MBL	03/27/98	1850	118921	1

The following prep procedures were performed:  
 TRACE

VMM 03/26/98 1500 118921 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes:

The qualifiers in this report are defined as follows:

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

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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0608-33  
 Lab ID : 9803538-33  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		6020	62.2	459	ug/kg	2.0	MBL	03/27/98	1856	118921	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118921 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0608-34  
 Lab ID : 9803538-34  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		6820	64.5	476	ug/kg	2.0	MBL	03/27/98	1902	118921	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118921 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

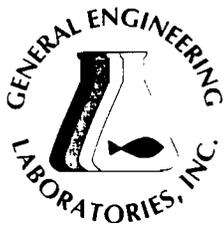
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0608-35  
 Lab ID : 9803538-35  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		7020	64.5	476	ug/kg	2.0	MBL	03/27/98	1908	118921	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118921 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0608-36  
 Lab ID : 9803538-36  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		8140	65.8	485	ug/kg	2.0	MBL	03/27/98	1913	118921	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118921 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

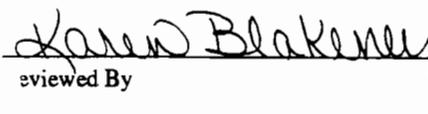
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0608-37  
 Lab ID : 9803538-37  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		1560	66.4	490	ug/kg	2.0	MBL	03/27/98	1919	118921	1

**The following prep procedures were performed:**

TRACE VMM 03/26/98 1500 118921 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

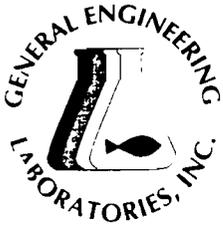
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TN	02934	02934

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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0608-38  
 Lab ID : 9803538-38  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		7690	65.8	485	ug/kg	2.0	MBL	03/27/98	1925	118921	1

The following prep procedures were performed:

TRACE

VMM 03/26/98 1500 118921 2

### M = Method

### Method-Description

M 1	EPA 6010A
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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

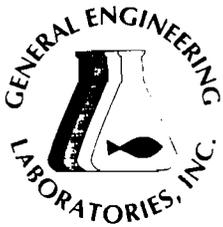
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SC	10120	10582
TN	02934	02934

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0608-39  
 Lab ID : 9803538-39  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		9160	63.3	467	ug/kg	2.0	MBL	03/27/98	1942	118921	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118921 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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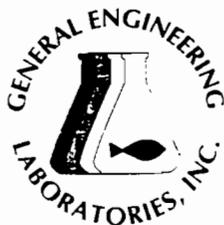
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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0608-40  
 Lab ID : 9803538-40  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		9770	67.1	495	ug/kg	2.0	MBL	03/27/98	1948	118921	1

**The following prep procedures were performed:**

TRACE

VMM 03/26/98 1500 118921 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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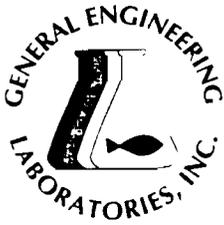
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TN	02934	02934

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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0608-41  
 Lab ID : 9803538-41  
 Matrix : Soil  
 Date Collected : 03/23/98  
 Date Received : 03/23/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		7320	64.5	476	ug/kg	2.0	MBL	03/28/98	1654	118923	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118923 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
 M 2 EPA 3050

**Notes:**

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*Karen Blakeney*  
 \_\_\_\_\_  
 Reviewed By



QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9803538%

Report Date: March 31, 1998

Page 1 of 1

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
<b>Metals Analysis</b>													
QC495778	BLANK	118920											
Lead						19.3	ug/kg				MBL	03/28/98	2025
QC495783	BLANK	118921											
Lead						118	ug/kg				MBL	03/27/98	1719
QC495793	BLANK	118923											
Lead						58.4	ug/kg				MBL	03/28/98	1641
QC495779	LCS	118920											
Lead			134000			130000	ug/kg		97.2	(77.1 - 116.)	MBL	03/28/98	2030
QC495784	LCS	118921											
Lead			124000			108000	ug/kg		86.9	(77.1 - 116.)	MBL	03/27/98	1725
QC495794	LCS	118923											
Lead			127000			126000	ug/kg		99.6	(77.1 - 116.)	MBL	03/28/98	1647
QC495781	9803538-20MS	118920											
Lead			50000	4390		56100	ug/kg		103	(56.3 - 135.)	MBL	03/28/98	2252
QC495786	9803538-40MS	118921											
Lead			47600	9770		132000	ug/kg		256**	(56.3 - 135.)	MBL	03/27/98	2000
QC495796	9803581-39MS	118923											
Lead			45900	176000		397000	ug/kg		481**	(56.3 - 135.)	MBL	03/28/98	1919
QC495782	9803538-20MSD	118920											
Lead			49000	4390		52900	ug/kg	4.28	99.0	(0.00 - 34.0)	MBL	03/28/98	2257
QC495787	9803538-40MSD	118921											
Lead			46700	9770		49600	ug/kg	99.9**	85.3	(0.00 - 34.0)	MBL	03/27/98	2005
QC495797	9803581-39MSD	118923											
Lead			48500	176000		441000	ug/kg	12.6	545	(0.00 - 34.0)	MBL	03/28/98	1925
QC495780	9803538-20SERIAL	118920											
Lead				4390		4480	ug/kg	2.09			MBL	03/28/98	2246
QC495785	9803538-40SERIAL	118921											
Lead				9770		10600	ug/kg	8.48			MBL	03/27/98	1954
QC495795	9803581-39SERIAL	118923											
Lead				176000		189000	ug/kg	7.05			MBL	03/30/98	0611

Notes

The qualifiers in this report are defined as follows:  
 J indicates presence of analyte < RL (Report Limit)  
 U indicates presence of analyte < DL (Detect Limit)

J indicates that spike recovery limits do not apply when sample concentration exceeds spike conc by a factor of 4 or more

NWOC.00197

General Engineering Laboratories, Inc.  
 2040 Savage Road  
 Charleston, South Carolina 29407  
 P.O. Box 30712  
 Charleston, South Carolina 29417  
 (803) 556-8171

# CHAIN OF CUSTODY RECORD

9803538

Page 1 of 4

Client Name/Facility Name		SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods											Use F or P in the boxes to indicate whether sample was filtered and/or preserved					
SPORT ENV DET CHASW													←					
Collected by/Company		# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Remarks
SPORT ENV DET CHASW																		
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB												
-01	SPORT 608-1	3/23/98	10:25	x			1											NBCA002SSZ201401
-02	SPORT 608-2	3/23/98	10:25	x			1											NBCA002SSZ201501
-03	SPORT 608-3	3/23/98	10:25	x			1											NBCA002SSZ201601
-04	SPORT 608-4	3/23/98	10:25	x			1											NBCA002SSZ201701
-05	SPORT 608-5	3/23/98	10:25	x			1											NBCA002SSZ201801
-06	SPORT 608-6	3/23/98	10:40	x			1											NBCA002SSZ201901
-07	SPORT 608-7	3/23/98	10:40	x			1											NBCA002SSZ202001
-08	SPORT 608-8	3/23/98	10:40	x			1											NBCA002SSZ202101
-09	SPORT 608-9	3/23/98	10:40	x			1											NBCA002SSZ202201
-10	SPORT 608-10	3/23/98	10:40	x			1											NBCA002SSZ202301
-11	SPORT 608-11	3/23/98	11:05	x			1											NBCA002SSZ202401
-12	SPORT 608-12	3/23/98	11:05	x			1											NBCA002SSZ202501
-13	SPORT 608-13	3/23/98	11:05	x			1											NBCA002SSZ202601
Relinquished by: <i>Math W. [Signature]</i>		Date: 3/23/98	Time: 1570	Received by: <i>J. B. [Signature]</i>		Date: 3/23/98	Time: 1515	Relinquished by: <i>J. B. [Signature]</i>		Date: 3/23/98	Time: 1615	Remarks:						
Relinquished by: <i>[Signature]</i>		Date: 3/23/98	Time: 1615	Received by lab by: <i>Karen Blakemey</i>		Date: 3/23/98	Time: 1615											

White = sample collector    Yell w = file    Pink = with report

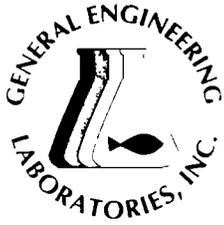
# CHAIN OF CUSTODY RECORD

Client Name/Facility Name		SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods										Use F or P in the boxes to indicate whether sample was filtered and/or preserved						
SPORTS JUDICIAL CHAMBER												←						
Collected by/Company		# OF CONTAINERS	pH. conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS Specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Remarks
SAMPLE ID	DATE																	
-14	SPORT 6608-14	3/23/98	11:05															NBCA002SSZ202701
-15	SPORT 6608-15	3/23/98	11:05															NBCA002SSZ202801
-16	SPORT 6608-16	3/23/98	11:35															NBCA002SSZ202901
-17	SPORT 6608-17	3/23/98	11:35															NBCA002SSZ203001
-18	SPORT 6608-18	3/23/98	11:35															NBCA002SSZ203101
-19	SPORT 6608-19	3/23/98	11:45															NBCA002SSZ203201
-20	SPORT 6608-20	3/23/98	13:10															NBCA002SSZ203301
-21	SPORT 6608-21	3/23/98	13:10															split sample Duplicate sample NBCA002CSZ200101
-22	SPORT 6608-22	3/23/98	13:25															split sample NBCA002ISZ200101
-23	SPORT 6608-23	3/23/98	13:25															split sample NBCA002ISZ200201
-24	SPORT 6608-24	3/23/98	13:30															NBCA002SSZ203401
-25	SPORT 6608-25	3/23/98	13:30															NBCA002SSZ203501
-26	SPORT 6608-26	3/23/98	13:30															NBCA002SSZ203601
Relinquished by: <i>[Signature]</i>		Date: 3/23/98	Time: 1510	Received by: <i>[Signature]</i>				Relinquished by: <i>[Signature]</i>				Date: 3/23/98	Time: 1515	Received by: <i>[Signature]</i>				
Relinquished by: <i>[Signature]</i>		Date: 3/23/98	Time: 1615	Received by lab by: Karen Blakemey				Date: 3/23/98	Time: 1615	Remarks:								

White = sample collector      Yellow = file      Pink = with report







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NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: March 31, 1998

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Sample ID : SPORT0630-2  
 Lab ID : 9803581-02  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		16000	67.1	495	ug/kg	2.0	MBL	03/28/98	1749	118922	1

**The following prep procedures were performed:**

TRACE VMM 03/25/98 1500 118922 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

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Sample ID : SPORT0630-3  
 Lab ID : 9803581-03  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		243000	65.8	485	ug/kg	2.0	MBL	03/28/98	1755	118922	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118922 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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 North Charleston, South Carolina 29405-2106

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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

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Sample ID : SPORT0630-4  
 Lab ID : 9803581-04  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		5720	66.4	490	ug/kg	2.0	MBL	03/28/98	1800	118922	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118922 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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cc: NPWC00197

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Sample ID : SPORT0630-5  
 Lab ID : 9803581-05  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		6280	65.8	485	ug/kg	2.0	MBL	03/28/98	1805	118922	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118922 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

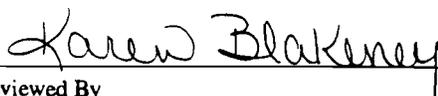
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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Contact: Mr. Bill Hiers

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cc: NPWC00197

Report Date: March 31, 1998

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Sample ID : SPORT0630-6  
 Lab ID : 9803581-06  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		6860	63.3	467	ug/kg	2.0	MBL	03/28/98	1811	118922	1

**The following prep procedures were performed:**

TRACE VMM 03/25/98 1500 118922 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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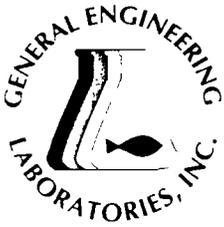
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*Karen Blakeney*  
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cc: NPWC00197

Report Date: March 31, 1998

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Sample ID : SPORT0630-7  
 Lab ID : 9803581-07  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		3460000	66.4	490	ug/kg	2.0	MBL	03/28/98	1816	118922	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118922 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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cc: NPWC00197

Report Date: March 31, 1998

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Sample ID : SPORT0630-8  
 Lab ID : 9803581-08  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		89600	67.1	495	ug/kg	2.0	MBL	03/28/98	1821	118922	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118922 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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cc: NPWC00197

Report Date: March 31, 1998

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Sample ID : SPORT0630-9  
 Lab ID : 9803581-09  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		1640000	67.1	495	ug/kg	2.0	MBL	03/28/98	1837	118922	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118922 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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TN	02934	02934

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

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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

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Sample ID : SPORT0630-10  
 Lab ID : 9803581-10  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		82000	65.8	485	ug/kg	2.0	MBL	03/28/98	1843	118922	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118922 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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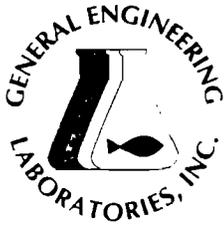
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Page 1 of 1

Sample ID : SPORT0630-11  
 Lab ID : 9803581-11  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		5400	65.2	481	ug/kg	2.0	MBL	03/28/98	1848	118922	1

The following prep procedures were performed:

TRACE

VMM 03/25/98 1500 118922 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

#### Notes:

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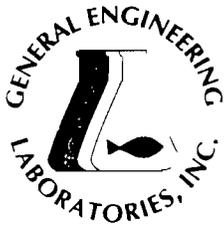
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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

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Sample ID : SPORT0630-12  
 Lab ID : 9803581-12  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		78800	65.8	485	ug/kg	2.0	MBL	03/28/98	1853	118922	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118922 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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cc: NPWC00197

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Page 1 of 1

Sample ID : SPORT0630-13  
 Lab ID : 9803581-13  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		7590	64.0	472	ug/kg	2.0	MBL	03/28/98	1859	118922	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118922 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: March 31, 1998

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Sample ID : SPORT0630-14  
 Lab ID : 9803581-14  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		9330	67.1	495	ug/kg	2.0	MBL	03/28/98	1904	118922	1

**The following prep procedures were performed:**

TRACE VMM 03/25/98 1500 118922 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

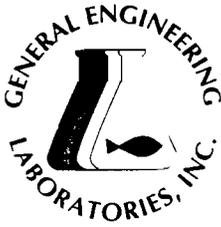
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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

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Sample ID : SPORT0630-15  
 Lab ID : 9803581-15  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		205000	66.4	490	ug/kg	2.0	MBL	03/28/98	1910	118922	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118922 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0630-16  
Lab ID : 9803581-16  
Matrix : Soil  
Date Collected : 03/24/98  
Date Received : 03/24/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		29400	62.2	459	ug/kg	2.0	MBL	03/28/98	1915	118922	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118922 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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Project Description: SUPSHIP-Portsmouth Detachment

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Sample ID : SPORT0630-17  
 Lab ID : 9803581-17  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		195000	67.1	495	ug/kg	2.0	MBL	03/28/98	1920	118922	1

The following prep procedures were performed:

TRACE

VMM 03/25/98 1500 118922 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes:

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Sample ID : SPORT0630-18  
 Lab ID : 9803581-18  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		4900	67.8	500	ug/kg	2.0	MBL	03/28/98	1926	118922	1

The following prep procedures were performed:  
 TRACE

VMM 03/25/98 1500 118922 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

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

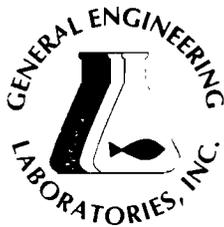
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0630-19  
 Lab ID : 9803581-19  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		191000	62.2	459	ug/kg	2.0	MBL	03/28/98	1942	118922	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118922 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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The qualifiers in this report are defined as follows:

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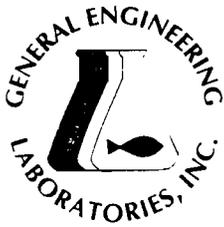
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Sample ID : SPORT0630-20  
 Lab ID : 9803581-20  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		5520	65.2	481	ug/kg	2.0	MBL	03/28/98	1947	118922	1

The following prep procedures were performed:  
 TRACE

VMM 03/25/98 1500 118922 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

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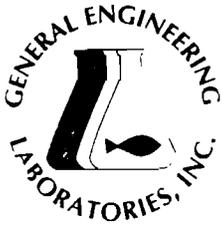
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 North Charleston, South Carolina 29405-2106

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Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0630-21  
 Lab ID : 9803581-21  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		4430000	63.3	467	ug/kg	2.0	MBL	03/28/98	1700	118923	1

The following prep procedures were performed:  
 TRACE

VMM 03/25/98 1500 118923 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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TN	02934	02934

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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0630-22  
 Lab ID : 9803581-22  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		1610000	62.8	463	ug/kg	2.0	MBL	03/28/98	1706	118923	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118923 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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**Project Description:** SUPSHIP-Portsmouth Detachment

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Sample ID : SPORT0630-23  
 Lab ID : 9803581-23  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		1700000	66.4	490	ug/kg	2.0	MBL	03/28/98	1711	118923	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118923 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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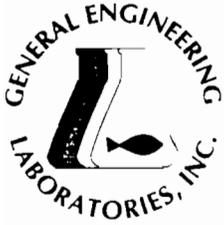
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Sample ID : SPORT0630-24  
 Lab ID : 9803581-24  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		18500	67.1	495	ug/kg	2.0	MBL	03/28/98	1717	118923	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118923 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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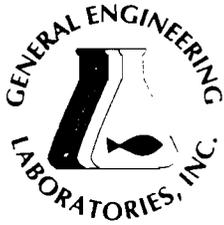
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Sample ID : SPORT0630-25  
 Lab ID : 9803581-25  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		4010000	67.8	500	ug/kg	2.0	MBL	03/28/98	1723	118923	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118923 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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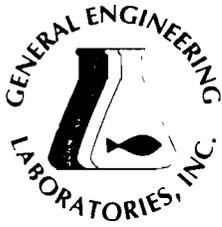
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Sample ID : SPORT0630-26  
 Lab ID : 9803581-26  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		1670000	66.4	490	ug/kg	2.0	MBL	03/29/98	1235	118923	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118923 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

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Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: March 31, 1998

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Sample ID : SPORT0630-27  
 Lab ID : 9803581-27  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		451000	63.3	467	ug/kg	2.0	MBL	03/29/98	1240	118923	1

The following prep procedures were performed:

TRACE

VMM 03/25/98 1500 118923 2

### M = Method

### Method-Description

M 1	EPA 6010A
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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

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

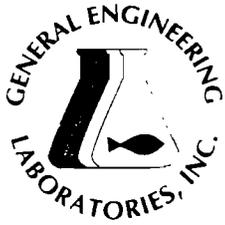
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: March 31, 1998

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Sample ID : SPORT0630-28  
 Lab ID : 9803581-28  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		1920000	67.1	495	ug/kg	2.0	MBL	03/29/98	1246	118923	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118923 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

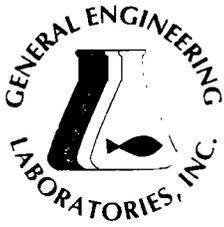
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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

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Sample ID : SPORT0630-29  
 Lab ID : 9803581-29  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		623000	62.8	463	ug/kg	2.0	MBL	03/28/98	1758	118923	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118923 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

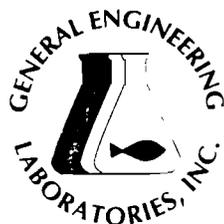
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 North Charleston, South Carolina 29405-2106

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Sample ID : SPORT0630-30  
 Lab ID : 9803581-30  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		1200000	311	2300	ug/kg	10.	MBL	03/30/98	0717	118923	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118923 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

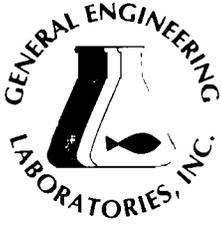
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Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: March 31, 1998

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Sample ID : SPORT0630-31  
 Lab ID : 9803581-31  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead	U	10.2	66.4	490	ug/kg	2.0	MBL	03/28/98	1809	118923	1

The following prep procedures were performed:  
 TRACE

VMM 03/25/98 1500 118923 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

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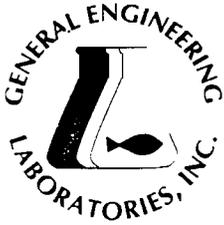
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 North Charleston, South Carolina 29405-2106

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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0630-32  
 Lab ID : 9803581-32  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		933000	64.0	472	ug/kg	2.0	MBL	03/28/98	1815	118923	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118923 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0630-33  
 Lab ID : 9803581-33  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		108000	65.8	485	ug/kg	2.0	MBL	03/28/98	1821	118923	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118923 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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*Karen Blakeney*  
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North Charleston, South Carolina 29405-2106

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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0630-34  
Lab ID : 9803581-34  
Matrix : Soil  
Date Collected : 03/24/98  
Date Received : 03/24/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		661000	62.8	463	ug/kg	2.0	MBL	03/29/98	1256	118923	1

### The following prep procedures were performed:

TRACE

VMM 03/25/98 1500 118923 2

### M = Method

### Method-Description

M 1 EPA 6010A  
M 2 EPA 3050

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North Charleston, South Carolina 29405-2106

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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0630-35  
Lab ID : 9803581-35  
Matrix : Soil  
Date Collected : 03/24/98  
Date Received : 03/24/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		422000	63.3	467	ug/kg	2.0	MBL	03/28/98	1832	118923	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118923 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
M 2 EPA 3050

**Notes:**

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SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0630-36  
 Lab ID : 9803581-36  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		75900	66.4	490	ug/kg	2.0	MBL	03/28/98	1838	118923	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118923 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0630-37  
 Lab ID : 9803581-37  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		1170000	62.8	463	ug/kg	2.0	MBL	03/28/98	1844	118923	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118923 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Page 1 of 1

Sample ID : SPORT0630-38  
 Lab ID : 9803581-38  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		558000	62.2	459	ug/kg	2.0	MBL	03/28/98	1901	118923	1

**The following prep procedures were performed:**

TRACE VMM 03/25/98 1500 118923 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

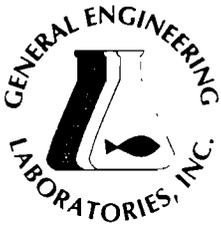
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Sample ID : SPORT0630-39  
 Lab ID : 9803581-39  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		176000	62.2	459	ug/kg	2.0	MBL	03/28/98	1907	118923	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118923 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

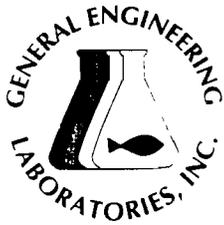
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Report Date: March 31, 1998

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Sample ID : SPORT0630-40  
Lab ID : 9803581-40  
Matrix : Soil  
Date Collected : 03/24/98  
Date Received : 03/24/98  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		10100	63.3	467	ug/kg	2.0	MBL	03/28/98	1551	118924	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118924 2

**M = Method**

**Method-Description**

M 1 EPA 6010A  
M 2 EPA 3050

**Notes:**

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: March 31, 1998

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Sample ID : SPORT0630-41  
 Lab ID : 9803581-41  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		77300	67.1	495	ug/kg	2.0	MBL	03/28/98	1556	118924	1

The following prep procedures were performed:

TRACE

VMM 03/25/98 1500 118924 2

### M = Method

### Method-Description

M 1	EPA 6010A
M 2	EPA 3050

### Notes:

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# GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0630-42  
 Lab ID : 9803581-42  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		55900	62.2	459	ug/kg	2.0	MBL	03/28/98	1601	118924	1

**The following prep procedures were performed:**

TRACE

VMM 03/25/98 1500 118924 2

**M = Method**

**Method-Description**

M 1	EPA 6010A
M 2	EPA 3050

**Notes:**

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1998

Page 1 of 1

Sample ID : SPORT0630-43  
 Lab ID : 9803581-43  
 Matrix : Soil  
 Date Collected : 03/24/98  
 Date Received : 03/24/98  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		110000	63.3	467	ug/kg	2.0	MBL	03/28/98	1607	118924	1

The following prep procedures were performed:

TRACE

VMM 03/25/98 1500 118924 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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

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

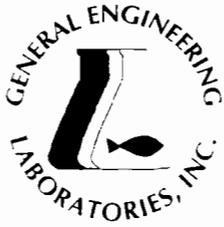
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 1899 North Hobson Ave.  
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 12, 1999

Page 1 of 1

Sample ID 99SPORT0145-1  
 Lab ID 9904052-01  
 Matrix TCLP  
 Date Collected 04/01/99  
 Date Received 04/01/99  
 Priority Routine  
 Collector Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		19100	15.9	50.0	ug/l	10	MBL	04/08/99	1700	146110	1

**The following prep procedures were performed:**

TCLP Prep for Metals JJ 04/05/99 1620 145975 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 1311

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Reviewed By



QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9904052%

Report Date: April 12, 1999

Page 1 of 1

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
<b>Metals Analysis</b>													
QC599797	BLANK	146110											
Lead						-0.523	ug/l				MBL	04/08/99	1627
QC599798	BLANK	146110											
Lead						-1.33	ug/l				MBL	04/08/99	1632
QC599799	BLANK	146110											
Lead						0.689	ug/l				MBL	04/08/99	1637
QC599800	LCS	146110											
Lead			5000			5730	ug/l			115** (89.3 - 114.)	MBL	04/08/99	1643

Notes:

The qualifiers in this report are defined as follows:

J indicates presence of analyte < RL (Report Limit)

U indicates presence of analyte < DL (Detect Limit)

n/a indicates that spike recovery limits do not apply when  
sample concentration exceeds spike conc by a factor of 4 or more

NPWC 00197

General Engineering Laboratories, Inc.  
 2040 Savage Road  
 Charleston, South Carolina 29497  
 P.O. Box 30712  
 Charleston, South Carolina 29417  
 (803) 556-8171

# CHAIN OF CUSTODY RECORD

099040521

Page 1 of 1

Client Name/Facility Name			SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods										Use F or P in the boxes to indicate whether sample was filtered and/or preserved							
SPORT ENV DETCHASN													39408							
Collected by/Company			# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coalform - specify type	LEAD TCLP	Remarks
SAMPLE ID	DATE	TIME																		
01 99SPORT 145-1	04-01-99	1512	X																X	NBCA 002 V002 CONCRETE SAMPLE
(A large diagonal line is drawn across the remaining rows of the table.)																				

Relinquished by: <i>Tom L. Hunter</i>	Date: 4/1/99	Time: 1523	Received by: <i>W.R. Hieron, Jr.</i>	Relinquished by: <i>W.R. Hieron, Jr.</i>	Date: 4/1/99	Time: 1538	Received by: <i>Stephano Berlecke</i>
Relinquished by: <i>Stephano Berlecke</i>	Date: 4-1-99	Time: 1610	Received by lab by: <i>P. W. Vauer</i>	Date: 4-1-99	Time: 1615	Remarks:	

White = sample collector    Yellow = file    Pink = with report



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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc. NPWC00197

Report Date: May 08, 1999

Page 1 of 1

Sample ID : 99SPORT0165-1  
 Lab ID : 9905060-01  
 Matrix : TCLP  
 Date Collected : 05/04/99  
 Date Received : 05/04/99  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		352	15.9	50.0	ug/l	10	AME	05/07/99	1208	148355	1

**The following prep procedures were performed:**

TCLP Prep for Metals JJ 05/04/99 2010 148309 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 1311

**Notes.**

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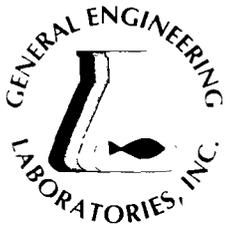
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 North Charleston, South Carolina 29405-2106

Contact. Mr. Bill Hiers

Project Description. SUPSHIP-Portsmouth Detachment

cc NPWC00197

Report Date: May 08, 1999

Page 1 of 1

Sample ID 99SPORT0165-2  
 Lab ID 9905060-02  
 Matrix TCLP  
 Date Collected 05/04/99  
 Date Received 05/04/99  
 Priority Rush  
 Collector Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		234	15.9	50.0	ug/l	10.	AME	05/07/99	1213	148355	1

### The following prep procedures were performed:

TCLP Prep for Metals

JJ 05/04/99 2010 148309 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 1311

### Notes:

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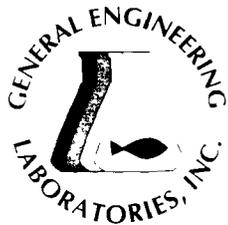
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TN	02934	02934

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 08, 1999

Page 1 of 1

Sample ID 99SPO0165-3  
 Lab ID 9905060-03  
 Matrix TCLP  
 Date Collected 05/04/99  
 Date Received 05/04/99  
 Priority Rush  
 Collector Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead	J	39.1	15.9	50.0	ug/l	10.	AME	05/07/99	1218	148355	1

**The following prep procedures were performed:**

TCLP Prep for Metals

JJ 05/04/99 2010 148309 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 1311

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SC	10120	10582
TN	02934	02934

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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. NPWC00197

Report Date: May 08, 1999

Page 1 of 1

Sample ID 99SPORT0165-4  
 Lab ID : 9905060-04  
 Matrix : TCLP  
 Date Collected : 05/04/99  
 Date Received : 05/04/99  
 Priority Rush  
 Collector Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead	J	17.5	15.9	50.0	ug/l	10	AME	05/07/99	1224	148355	1

**The following prep procedures were performed:**

TCLP Prep for Metals JJ 05/04/99 2010 148309 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 1311

**Notes**

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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc NPWC00197

Report Date: May 08, 1999

Page 1 of 1

Sample ID : 99SPORT0165-5  
 Lab ID : 9905060-05  
 Matrix : TCLP  
 Date Collected : 05/04/99  
 Date Received : 05/04/99  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		279	15.9	50.0	ug/l	10	AME	05/07/99	1229	148355	1

**The following prep procedures were performed:**

TCLP Prep for Metals JJ 05/04/99 2010 148309 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 1311

**Notes:**

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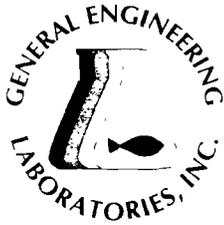
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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc. NPWC00197

Report Date: May 08, 1999

Page 1 of 1

Sample ID : 99SPORT0165-6  
 Lab ID : 9905060-06  
 Matrix : TCLP  
 Date Collected : 05/04/99  
 Date Received : 05/04/99  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead	U	ND	15.9	50.0	ug/l	10	AME	05/07/99	1235	148355	1

### The following prep procedures were performed:

TCLP Prep for Metals JJ 05/04/99 2010 148309 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 1311

### Notes:

The qualifiers in this report are defined as follows:

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9905060%

Report Date: May 08, 1999

Page 1 of 1

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
<b>Metals Analysis</b>													
QC608485	BLANK	148355											
Lead						11.6	ug/l				ame	05/07/99	1137
QC608486	BLANK	148355											
Lead						16.0	ug/l				ame	05/07/99	1142
QC608487	BLANK	148355											
Lead						1.64	ug/l				ame	05/07/99	1148
QC608488	LCS	148355											
Lead			5000			5290	ug/l		106	(89.3 - 114.)	ame	05/07/99	1153
QC608489	LCS DUP	148355											
Lead			5000			5270	ug/l	0.528	105	(0.00 - 20.0)	ame	05/07/99	1159
QC608650	9905060-06MS	148355											
Lead			5000	12.6		5240	ug/l		105		ame	05/07/99	1312
QC608651	9905060-06MSD	148355											
Lead			5000	12.6		5220	ug/l	0.496	104		ame	05/07/99	1317

Notes:

The qualifiers in this report are defined as follows:

J indicates presence of analyte < RL (Report Limit)

U indicates presence of analyte < DL (Detect Limit)

n/a indicates that spike recovery limits do not apply when  
sample concentration exceeds spike conc by a factor of 4 or more

NPWC 00197

9905060%

General Engineering Laboratories, Inc  
 2040 Savage Road  
 Charleston, South Carolina 29407  
 P.O. Box 30712  
 Charleston, South Carolina 29417  
 (803) 556-8171

**CHAIN OF CUSTODY RECORD**

Page 1 of 1

**3 DAY TURNAROUND**

Client Name/Facility Name		SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods														Use F or P in the boxes to indicate whether sample was filtered and/or preserved				
SPORTENV DETCHASN		# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	TELP LEAD	Remarks	
Collected by/Company	SPORTENV DETCHASN																			
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB														
1-99	SPORTO 165-1	5-4-99	0932																X	NBCA002V003ZN3
2-99	SPORTO 165-2	5-4-99	0945																X	NBCA002V004ZN5
3-99	SPORTO 165-3	5-4-99	1403																X	NBCA002V005ZN5
4-99	SPORTO 165-4	5-4-99	1028																X	NBCA002V006ZN5
5-99	SPORTO 165-5	5-4-99	0956																X	NBCA002V007ZN5
6-99	SPORTO 165-6	5-4-99	1116																X	NBCA002V008ZN5
Relinquished by:		Date:	Time:	Received by:		Date:	Time:	Received by:												
<i>[Signature]</i>		5-4-99	1506	W.R. Hiers, Jr.		5/4/99	1527	—												
Relinquished by:		Date:	Time:	Received by lab by:		Date:	Time:	Remarks:												
—		—	—	Ry - P. But		5/4/99	1527													

White = sample collector    Yellow = file    Pink = with rep rt



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

Contact: Mr Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc NPWC00197

Report Date: July 10, 1999

Page 1 of 1

Sample ID 99SPORT0215-1  
 Lab ID 9907171-01  
 Matrix Soil  
 Date Collected 07/07/99  
 Date Received 07/07/99  
 Priority Rush  
 Collector Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		250000	141	232	ug/kg	5 0	JSS	07/09/99	1052	152846	1

### The following prep procedures were performed:

ICP Mass Spec

AJM 07/08/99 1930 152846 2

### MI = Method

### Method-Description

M 1 SW 846 6020  
 M 2 EPA 3050

### Notes

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc NPWC00197

Report Date: July 10, 1999

Page 1 of 1

Sample ID 99SPORT0215-2  
 Lab ID 9907171-02  
 Matrix Soil  
 Date Collected 07/07/99  
 Date Received 07/07/99  
 Priority Rush  
 Collector Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		657000	144	238	ug/kg	5.0	JSS	07/09/99	1058	152846	1

### The following prep procedures were performed:

ICP Mass Spec

AJM 07/08/99 1930 152846 2

### M = Method

### Method-Description

M 1 SW 846 6020  
 M 2 EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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

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.

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, Elise Hanson at 843-556-8171

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# GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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

Reference: NPWC00197

Report Date: July 10, 1999

Page 1 of 1

Sample ID	99SPORT0215-3
Lab ID	9907171-03
Matrix	Soil
Date Collected	07/07/99
Date Received	07/07/99
Priority	Rush
Collector	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		128000	139	230	ug/kg	5.0	JSS	07/09/99	1104	152846	1

#### The following prep procedures were performed:

ICP Mass Spec

AJM 07/08/99 1930 152846 2

#### M = Method

#### Method-Description

M 1	SW 846 6020
M 2	EPA 3050

#### Notes:

The qualifiers in this report are defined as follows

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

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

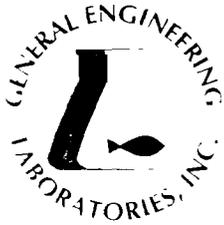
U indicates that the analyte was not detected at a concentration greater than the detection limit

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## Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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 NPWC00197

Report Date: July 10, 1999

Page 1 of 1

Sample ID: 99SPORT0215-4  
 Lab ID: 9907171-04  
 Matrix: Soil  
 Date Collected: 07/07/99  
 Date Received: 07/07/99  
 Priority: Rush  
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		257000	143	236	ug/kg	5.0	JSS	07/09/99	1111	152846	1

**The following prep procedures were performed:**

ICP Mass Spec

AJM 07/08/99 1930 152846 2

**M = Method**

**Method-Description**

M 1 SW 846 6020  
 M 2 EPA 3050

**Notes**

The qualifiers in this report are defined as follows.

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9907171%

Report Date: July 10, 1999

Page 1 of 1

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
<b>Metals Analysis</b>													
QC626090	BLANK	152846											
Lead						-25.8	ug/kg				JSS	07/09/99	1039
QC626091	LCS	152846											
Lead			142000			170000	ug/kg		120	(-)	JSS	07/09/99	1045
QC626093	9907171-04MS	152846											
Lead			49500	257000		350000	ug/kg		n/a		JSS	07/09/99	1123
QC626094	9907171-04MSD	152846											
Lead			48500	257000		115000	ug/kg		n/a		JSS	07/09/99	1129
QC626092	9907171-04SERIAL	152846											
Lead				257000		250000	ug/kg	2.98			JSS	07/09/99	1117

Notes:

The qualifiers in this report are defined as follows:

J indicates presence of analyte < RL (Report Limit)

U indicates presence of analyte < DL (Detect Limit)

n/a indicates that spike recovery limits do not apply when  
sample concentration exceeds spike conc by a factor of 4 or more

940-1711

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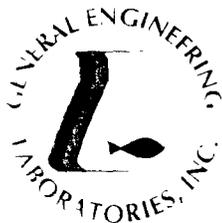
# CHAIN OF CUSTODY RECORD

— 3 DAY TURNAROUND —

Page 1 of 1

Client Name/Facility Name SPORTENYDETC HASN							SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods																	Use F or P in the boxes to indicate whether sample was filtered and/or preserved
Collected by/Company SPORTENYDETC HASN							# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Pb ICP	Remarks
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB																		
01 99SPORT 215-1	7-7-99	1049	X	X		1															X	NBCA φφ 2 SS 281 φ1		
02 99SPORT 215-2	7-7-99	0930	X	X		1															X	NBCA φφ 2 SS 282 φ1		
03 99SPORT 215-3	7-7-99	1100	X	X		1															X	NBCA φφ 2 SS 283 φ1		
04 99SPORT 215-4	7-7-99	1149	X	X		1															X	NBCA φφ 2 SS 284 φ1		
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p>Relinquished by: <i>J. L. Suter</i> Date: 7-7-99 Time: 1245 Received by: <i>W. K. Hiers, Jr.</i> Date: 7/7/99 Time: 1514</p> <p>Relinquished by: <i>Stephen Beckwith</i> Date: 7/7/99 Time: 1550 Received by: <i>Francis</i> Date: 7/7/99 Time: 1550</p> </div>																								

White = sample collector    Yellow = file    Pink = with report



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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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 NPWC00197

Report Date: July 13, 1999

Page 1 of 1

Sample ID 99SPORT0224-1  
 Lab ID 9907277-01  
 Matrix Soil  
 Date Collected 07/09/99  
 Date Received 07/09/99  
 Priority Rush  
 Collector Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		71400	152	250	ug/kg	5.0	JSS	07/12/99	1944	153104	1

### The following prep procedures were performed:

ICP Mass Spec

FGD 07/12/99 1930 153104 2

### M = Method

### Method-Description

M 1 SW 846 6020  
 M 2 EPA 3050

### Notes

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9907277%

Report Date: July 13, 1999

Page 1 of 1

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
<b>Metals Analysis</b>													
QC627143	BLANK	153104											
Lead						-26.3	ug/kg				JSS	07/12/99	1932
QC627144	LCS	153104											
Lead			135000			135000	ug/kg		100	(70.0 - 120.)	JSS	07/12/99	1938
QC627146	9907277-01MS	153104											
Lead			5000	71400		131000	ug/kg		n/a		JSS	07/12/99	1956
QC627147	9907277-01MSD	153104											
Lead			5000	71400		97200	ug/kg		n/a		JSS	07/12/99	2002
QC627145	9907277-01SERIAL	153104											
Lead				71400		65500	ug/kg	8.64			JSS	07/12/99	1950

Notes:

The qualifiers in this report are defined as follows:

J indicates presence of analyte < RL (Report Limit)

U indicates presence of analyte < DL (Detect Limit)

n/a indicates that spike recovery limits do not apply when  
sample concentration exceeds spike conc by a factor of 4 or more

3 Day Turnaround  
 NPWC00197

# CHAIN OF CUSTODY RECORD

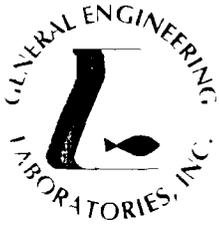
99072777

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Client Name/Facility Name				SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods																Use F or P in the boxes to indicate whether sample was filtered and/or preserved			
SPORT ENV DET CHASN																							
Collected by/Company				# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Pb ICP	Remarks		
SAMPLE ID	DATE	TIME	WELL																			SOIL	COMP
01 99SPORT 224-1	7-9-99	1136	X	X	1																	41297	NBCA 224-1
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p>Use F or P in the boxes to indicate whether sample was filtered and/or preserved</p> </div>																							
Relinquished by: J.S. Swartz				Date: 7/9/99	Time: 1242	Received by: Dorian Washington				Relinquished by: Dorian Washington				Date: 7/9/99	Time: 1350	Received by:							
Relinquished by:				Date:	Time:	Received by lab by: Dorian Washington				Date: 7/9/99	Time: 1350	Remarks:											

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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 NPWC00197

Report Date: July 15, 1999

Page 1 of 1

Sample ID	99SPORT0226-1
Lab ID	9907358-01
Matrix	Soil
Date Collected	07/13/99
Date Received	07/13/99
Priority	Rush
Collector	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		29200	141	232	ug/kg	5.0	JSS	07/15/99	0110	153237	1

### The following prep procedures were performed:

ICP Mass Spec FGD 07/13/99 1530 153237 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	EPA 3050

### Notes

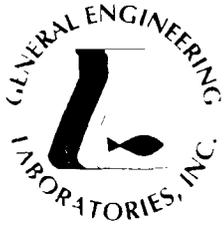
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# GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: July 15, 1999

Page 1 of 1

Sample ID	99SPORT0226-2
Lab ID	9907358-02
Matrix	Soil
Date Collected	07/13/99
Date Received	07/13/99
Priority	Rush
Collector	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		16600	139	230	ug/kg	5 0	JSS	07/15/99	0117	153237	1

**The following prep procedures were performed:**

ICP Mass Spec

FGD 07/13/99 1530 153237 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	EPA 3050

**Notes:**

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: July 15, 1999

Page 1 of 1

Sample ID	99SPORT0226-3
Lab ID	9907358-03
Matrix	Soil
Date Collected	07/13/99
Date Received	07/13/99
Priority	Rush
Collector	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		8150	152	250	ug/kg	5.0	JSS	07/15/99	0124	153237	1

**The following prep procedures were performed:**

ICP Mass Spec FGD 07/13/99 1530 153237 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

Acc: NPWC00197

Lab Sample ID: 9907358%

Report Date: July 16, 1999

Page 1 of 1

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
<b>Metals Analysis</b>													
QC627648	BLANK	153237											
Lead							-54.5 ug/kg				JSS	07/15/99	0138
QC627649	LCS	153237											
Lead			124000			141000	ug/kg		114	(70.0 - 120.)	JSS	07/15/99	0103
QC627651	9907358-03MS	153237											
Lead			4950	8150		14300	ug/kg		125**	(67.3 - 122.)	JSS	07/15/99	0145
QC627652	9907358-03MSD	153237											
Lead			5000	8150		12500	ug/kg	34.9**	87.6	(0.00 - 23.2)	JSS	07/15/99	0152
QC627650	9907358-03SERIAL	153237											
Lead				8150		9260	ug/kg	12.8			JSS	07/15/99	0131

Notes:

The qualifiers in this report are defined as follows.

J indicates presence of analyte < RL (Report Limit)

U indicates presence of analyte < DL (Detect Limit)

n/a indicates that spike recovery limits do not apply when  
sample concentration exceeds spike conc by a factor of 4 or more





# GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: July 19, 1999

Page 1 of 1

Sample ID: 99SPORT0228-01  
 Lab ID: 9907446-01  
 Matrix: Soil  
 Date Collected: 07/14/99  
 Date Received: 07/14/99  
 Priority: Rush  
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		3740	150	248	ug/kg	5.0	JSS	07/16/99	2018	153408	1

### The following prep procedures were performed:

ICP Mass Spec FGD 07/15/99 1600 153408 2

### M = Method

### Method-Description

M 1: SW 846 6020  
 M 2: EPA 3050

### Notes

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- F 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
- Q indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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NC	233	
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SC	10120	10582
TN	02934	02934

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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

CC NPWC00197

Report Date July 19, 1999

Page 1 of 1

Sample ID: 99SPORT0228-02  
 Lab ID: 9907446-02  
 Matrix: Soil  
 Date Collected: 07/14/99  
 Date Received: 07/14/99  
 Priority: Rush  
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		6570	152	250	ug/kg	5.0	JSS	07/16/99	2024	153408	1

**The following prep procedures were performed:**

ICP Mass Spec FGD 07/15/99 1600 153408 2

**M = Method**

**Method-Description**

M 1: SW 846 6020  
 M 2: EPA 3050

**Notes**

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

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NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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 NPWC00197

Report Date: July 19, 1999

Page 1 of 1

Sample ID: 99SPORT0228-03  
 Lab ID: 9907446-03  
 Matrix: Soil  
 Date Collected: 07/14/99  
 Date Received: 07/14/99  
 Priority: Rush  
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		6640	149	245	ug/kg	5.0	JSS	07/16/99	2031	153408	1

### The following prep procedures were performed:

ICP Mass Spec

FGD 07/15/99 1600 153408 2

### M = Method

### Method-Description

M1: SW 846 6020  
 M2: EPA 3050

### Notes

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

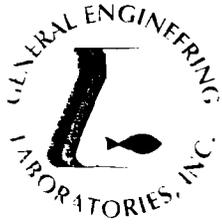
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: July 19, 1999

Page 1 of 1

Sample ID 99SPORT0228-04  
 Lab ID 9907446-04  
 Matrix Soil  
 Date Collected 07/14/99  
 Date Received 07/14/99  
 Priority Rush  
 Collector Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		7470	149	245	ug/kg	5 0	JSS	07/16/99	2038	153408	1

### The following prep procedures were performed:

ICP Mass Spec

FGD 07/15/99 1600 153408 2

### MI = Method

### Method-Description

M 1 SW 846 6020  
 M 2 EPA 3050

### Notes

The qualifiers in this report are defined as follows:

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

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

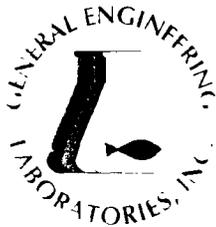
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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, Elise Hanson at 843-556-8171

Reviewed By





# GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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 NPWC00197

Report Date: July 19, 1999

Page 1 of 1

Sample ID	99SPORT0228-05
Lab ID	9907446-05
Matrix	Soil
Date Collected	07/14/99
Date Received	07/14/99
Priority	Rush
Collector	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		565000	144	238	ug/kg	5.0	JSS	07/16/99	2044	153408	1

**The following prep procedures were performed:**

ICP Mass Spec

FGD 07/15/99 1600 153408 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

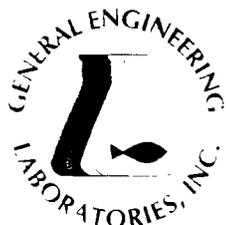
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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# GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: July 19, 1999

Page 1 of 1

Sample ID	99SPORT0228-06
Lab ID	9907446-06
Matrix	Soil
Date Collected	07/14/99
Date Received	07/14/99
Priority	Rush
Collector	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		6070	143	236	ug/kg	5.0	JSS	07/16/99	2050	153408	1

**The following prep procedures were performed:**

ICP Mass Spec

FGD 07/15/99 1600 153408 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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.

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# GENERAL ENGINEERING LABORATORIES

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## Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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 NPWC00197

Report Date: July 19, 1999

Page 1 of 1

Sample ID	99SPORT0228-07
Lab ID	9907446-07
Matrix	Soil
Date Collected	07/14/99
Date Received	07/14/99
Priority	Rush
Collector	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		4020	149	245	ug/kg	5.0	JSS	07/16/99	2056	153408	1

### The following prep procedures were performed:

ICP Mass Spec FGD 07/15/99 1600 153408 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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

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

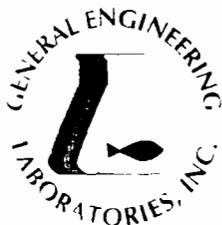
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: July 19, 1999

Page 1 of 1

Sample ID	99SPORT0228-08
Lab ID	9907446-08
Matrix	Soil
Date Collected	07/14/99
Date Received	07/14/99
Priority	Rush
Collector	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		6750	139	230	ug/kg	5.0	JSS	07/16/99	2120	153408	1

**The following prep procedures were performed:**

ICP Mass Spec

FGD 07/15/99 1600 153408 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	EPA 3050

Notes.

The qualifiers in this report are defined as follows:

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## Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: July 19, 1999

Page 1 of 1

Sample ID	99SPORT0228-09
Lab ID	9907446-09
Matrix	Soil
Date Collected	07/14/99
Date Received	07/14/99
Priority	Rush
Collector	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		3270	152	250	ug/kg	5.0	JSS	07/16/99	2126	153408	1

### The following prep procedures were performed:

ICP Mass Spec

FGD 07/15/99 1600 153408 2

### M = Method

### Method-Description

M 1	SW 846 6020
M 2	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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 NPWC00197

Report Date: July 19, 1999

Page 1 of 1

Sample ID 99SPORT0228-10  
Lab ID 9907446-10  
Matrix Soil  
Date Collected 07/14/99  
Date Received 07/14/99  
Priority Rush  
Collector Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		11600	150	248	ug/kg	5 0	JSS	07/16/99	2132	153408	1

### The following prep procedures were performed:

ICP Mass Spec

FGD 07/15/99 1600 153408 2

### M = Method

### Method-Description

M 1 SW 846 6020  
M 2 EPA 3050

### Notes

The qualifiers in this report are defined as follows:

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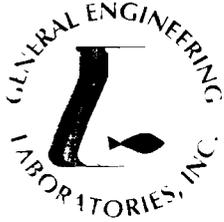
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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# GENERAL ENGINEERING LABORATORIES

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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 NPWC00197

Report Date: July 19, 1999

Page 1 of 1

Sample ID	99SPORT0228-11
Lab ID	9907446-11
Matrix	Soil
Date Collected	07/14/99
Date Received	07/14/99
Priority	Rush
Collector	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		9770	141	232	ug/kg	5.0	JSS	07/16/99	2138	153408	1

**The following prep procedures were performed:**

ICP Mass Spec

FGD 07/15/99 1600 153408 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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

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Reviewed By



QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9907446%

Report Date: July 19, 1999

Page 1 of 1

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
<b>Metals Analysis</b>													
QC628242	BLANK	153408											
Lead						-16.5	ug/kg				JSS	07/16/99	2006
QC628243	LCS	153408											
Lead			127000			123000	ug/kg		96.7	(70.0 - 120.)	JSS	07/16/99	2012
QC628245	9907446-11MS	153408											
Lead			4630	9770		12600	ug/kg		60.8**	(67.3 - 122.)	JSS	07/16/99	2144
QC628246	9907446-11MSD	153408											
Lead			4630	9770		12200	ug/kg	12.8	53.5	(0.00 - 23.2)	JSS	07/16/99	2150
QC628244	9907446-11SERIAL	153408											
Lead				9770		8690	ug/kg	11.6			JSS	07/16/99	2144

Notes:

The qualifiers in this report are defined as follows:

J indicates presence of analyte < RL (Report Limit)

U indicates presence of analyte < DL (Detect Limit)

n/a indicates that spike recovery limits do not apply when  
sample concentration exceeds spike conc by a factor of 4 or more





# GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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 NPWC00197

Report Date: July 20, 1999

Page 1 of 1

Sample ID 99SPORT0232-01  
 Lab ID 9907548-01  
 Matrix Soil  
 Date Collected 07/16/99  
 Date Received 07/16/99  
 Priority Rush  
 Collector Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		94200	152	250	ug/kg	5.0	AME	07/19/99	2222	153683	1

### The following prep procedures were performed:

ICP Mass Spec

FGD 07/19/99 1730 153683 2

### M = Method

### Method-Description

M 1 SW 846 6020  
 M 2 EPA 3050

### Notes

The qualifiers in this report are defined as follows

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

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.

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 in accordance with General Engineering Laboratories  
 standard operating procedures. Please direct  
 any questions to your Project Manager, Elise Hanson at 843-556-8171

Reviewed By





# GENERAL ENGINEERING LABORATORIES

*Testing - Analysis - Consulting - Environmental Services*

## Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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

NC NPWC00197

Report Date: July 20, 1999

Page 1 of 1

Sample ID: 99SPORT0232-02  
Lab ID: 9907548-02  
Matrix: Soil  
Date Collected: 07/16/99  
Date Received: 07/16/99  
Priority: Rush  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		2550	147	243	ug/kg	5.0	AME	07/19/99	2228	153683	1

### The following prep procedures were performed:

ICP Mass Spec

FGD 07/19/99 1730 153683 2

### M = Method

### Method-Description

M 1: SW 846 6020  
M 2: EPA 3050

### Notes

The qualifiers in this report are defined as follows

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

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

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

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

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, Elise Hanson at 843-556-8171

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# GENERAL ENGINEERING LABORATORIES

TESTING AND ANALYSIS SERVICES FOR THE ENVIRONMENT

### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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

Job: NPWC00197

Report Date: July 20, 1999

Page 1 of 1

Sample ID: 99SPORT0232-03  
 Lab ID: 9907548-03  
 Matrix: Soil  
 Date Collected: 07/16/99  
 Date Received: 07/16/99  
 Priority: Rush  
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		5990	142	234	ug/kg	5.0	AME	07/19/99	2234	153683	1

### The following prep procedures were performed:

ICP Mass Spec

FGD 07/19/99 1730 153683 2

### M = Method

### Method-Description

M 1: SW 846 6020  
 M 2: EPA 3050

### Notes

The qualifiers in this report are defined as follows:

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# GENERAL ENGINEERING LABORATORIES

Meeting & Analysis Services with a Division of GEI Group, Inc.

### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: July 20, 1999

Page 1 of 1

Sample ID: 99SPORT0232-04  
 Lab ID: 9907548-04  
 Matrix: Soil  
 Date Collected: 07/16/99  
 Date Received: 07/16/99  
 Priority: Rush  
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		2730	142	234	ug/kg	5.0	AME	07/19/99	2241	153683	1

### The following prep procedures were performed:

ICP Mass Spec

FGD 07/19/99 1730 153683 2

### M = Method

### Method-Description

M 1: SW 846 6020  
 M 2: EPA 3050

### Notes

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# GENERAL ENGINEERING LABORATORIES

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## Laboratory Certifications

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FL	E87156/87294	E87472/87458
NC	233	
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SC	10120	10582
TN	02934	02934

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

Ref: NPWC00197

Report Date: July 20, 1999

Page 1 of 1

Sample ID: 99SPORT0232-05  
 Lab ID: 9907548-05  
 Matrix: Soil  
 Date Collected: 07/16/99  
 Date Received: 07/16/99  
 Priority: Rush  
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		2920	150	248	ug/kg	5.0	AME	07/19/99	2247	153683	1

**The following prep procedures were performed:**

ICP Mass Spec FGD 07/19/99 1730 153683 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	EPA 3050

**Notes:**

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# GENERAL ENGINEERING LABORATORIES

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FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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

Job: NPWC00197

Report Date: July 20, 1999

Page 1 of 1

Sample ID: 99SPORT0232-06  
 Lab ID: 9907548-06  
 Matrix: Soil  
 Date Collected: 07/16/99  
 Date Received: 07/16/99  
 Priority: Rush  
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		3400	146	241	ug/kg	5.0	AME	07/19/99	2253	153683	1

**The following prep procedures were performed:**

ICP Mass Spec

FGD 07/19/99 1730 153683 2

**M = Method**

**Method-Description**

M 1 SW 846 6020  
 M 2 EPA 3050

**Notes**

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

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, Elise Hanson at 843-556-8171

Reviewed By



QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

Acc: NPWC00197

Lab. Sample ID: 9907548%

Report Date: July 20, 1999

Page 1 of 1

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
<b>Metals Analysis</b>													
QC629323	BLANK	153683											
Lead							-41.8 ug/kg				AME	07/19/99	2210
QC629324	LCS	153683											
Lead			132000				120000 ug/kg		90.8	(70.0 - 120.)	AME	07/19/99	2216
QC629326	9907548-06MS	153683											
Lead			4810	3400			8620 ug/kg		109	(67.3 - 122.)	AME	07/19/99	2324
QC629327	9907548-06MSD	153683											
Lead			4810	3400			8470 ug/kg	2.94	105	(0.00 - 23.2)	AME	07/19/99	2331
QC629325	9907548-06SERIAL	153683											
Lead				3400			3290 ug/kg	3.16			AME	07/19/99	2259

Notes

The qualifiers in this report are defined as follows

F indicates presence of analyte < RL (Report Limit)

D indicates presence of analyte < DL (Detect Limit)

na indicates that spike recovery limits do not apply when

sample concentration exceeds spike conc by a factor of 4 or more

14PW00197

Three day turn around

General Engineering & Services, Inc  
2040 Savage Road  
Charleston, South Carolina 29407  
P.O. Box 30712  
Charleston, South Carolina 29417  
(803) 556-8171

### CHAIN OF CUSTODY RECORD

Page 1 of 1

99075481

Client Name/Facility Name		SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods														Use F or P in the boxes to indicate whether sample was filtered and/or preserved									
SPORTEN V DET CHASN																<div style="font-size: 2em; text-align: center;">41479</div> <div style="text-align: center;">Remarks</div>									
Collected by/Company																									
SPORTEN V DET CHASN																									
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method Required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	R/N Extractables	PCB's	Cyanide	Coliform - specify type	Pb	ICP	Remarks
01 99SPORTO232-01	7-16-99	0724	X	X			1																X		NBCA 2 299 21
02 99SPORTO232-02	7-16-99	0733	X	X			1																X		NBCA 2 300 21
03 99SPORTO232-03	7-16-99	0810	X	X			1																X		NBCA 2 301 21
04 99SPORTO232-04	7-16-99	0818	X	X			1																X		NBCA 2 302 21
05 99SPORTO232-05	7-16-99	0823	X	X			1																X		NBCA 2 303 21
06 99SPORTO232-06	7-16-99	0829	X	X			1																X		NBCA 2 304 21
																							NOTE: SAMPLES PRESERVED @ 4°C		
Relinquished by: <i>J.L. Smith</i>		Date: 7-16-99	Time: 1247	Received by: <i>Dirvin Washington</i>		Relinquished by: <i>Dirvin Washington</i>		Date: 7/16/99	Time: 1520	Received by:															
Relinquished by:		Date:	Time:	Received by lab by: <i>Mustafa</i>		Date: 7/16/99	Time: 1520	Remarks:																	

White = sample collector    Yellow = file    Pink = with report



# GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow

### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: July 22, 1999

Page 1 of 1

Sample ID	99SPORT0233-01
Lab ID	9907648-01
Matrix	Soil
Date Collected	07/20/99
Date Received	07/20/99
Priority	Rush
Collector	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		105000	147	243	ug/kg	5.0	AME	07/21/99	1537	153834	1

**The following prep procedures were performed:**

ICP Mass Spec

AJM 07/20/99 1800 153834 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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

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.

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, Elise Hanson at 843-556-8171.

Reviewed By





# GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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

Ref: NPWC00197

Report Date: July 22, 1999

Page 1 of 1

Sample ID 99SPORT0233-02  
 Lab ID 9907648-02  
 Matrix Soil  
 Date Collected 07/20/99  
 Date Received 07/20/99  
 Priority Rush  
 Collector Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		33300	150	248	ug/kg	5.0	AME	07/21/99	1543	153834	1

**The following prep procedures were performed:**

ICP Mass Spec

AJM 07/20/99 1800 153834 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	EPA 3050

**Notes:**

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

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FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: July 22, 1999

Page 1 of 1

Sample ID	99SPORT0233-03
Lab ID	9907648-03
Matrix	Soil
Date Collected	07/20/99
Date Received	07/20/99
Priority	Rush
Collector	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		8450	147	243	ug/kg	5.0	AME	07/21/99	1549	153834	1

**The following prep procedures were performed:**

ICP Mass Spec

AJM 07/20/99 1800 153834 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	EPA 3050

**Notes:**

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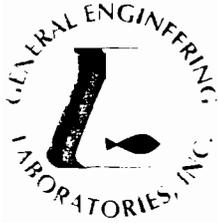
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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. NPWC00197

Report Date: July 22, 1999

Page 1 of 1

Sample ID	99SPORT0233-04
Lab ID	9907648-04
Matrix	Soil
Date Collected	07/20/99
Date Received	07/20/99
Priority	Rush
Collector	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		13100	150	248	ug/kg	5.0	AME	07/21/99	1555	153834	1

**The following prep procedures were performed:**

ICP Mass Spec AJM 07/20/99 1800 153834 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	EPA 3050

**Notes:**

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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. NPWC00197

Report Date: July 22, 1999

Page 1 of 1

Sample ID	99SPORT0233-05
Lab ID	9907648-05
Matrix	Soil
Date Collected	07/20/99
Date Received	07/20/99
Priority	Rush
Collector	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		4050	150	248	ug/kg	5 0	AME	07/21/99	1602	153834	1

**The following prep procedures were performed:**

ICP Mass Spec

AJM 07/20/99 1800 153834 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	EPA 3050

**Notes:**

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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: NPWC00197

Report Date: July 22, 1999

Page 1 of 1

Sample ID 99SPORT0233-06  
 Lab ID 9907648-06  
 Matrix Soil  
 Date Collected 07/20/99  
 Date Received 07/20/99  
 Priority Rush  
 Collector Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		4100	152	250	ug/kg	5.0	AME	07/21/99	1628	153834	1

**The following prep procedures were performed:**

ICP Mass Spec

AJM 07/20/99 1800 153834 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	EPA 3050

**Notes:**

The qualifiers in this report are defined as follows:

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## Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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 NPWC00197

Report Date: July 22, 1999

Page 1 of 1

Sample ID 99SPORT0233-07  
 Lab ID 9907648-07  
 Matrix Soil  
 Date Collected 07/20/99  
 Date Received 07/20/99  
 Priority Rush  
 Collector Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		2940	147	243	ug/kg	5 0	AME	07/21/99	1634	153834	1

**The following prep procedures were performed:**

ICP Mass Spec

AJM 07/20/99 1800 153834 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	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.

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

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Reviewed By





# GENERAL ENGINEERING LABORATORIES

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## Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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 NPWC00197

Report Date: July 22, 1999

Page 1 of 1

Sample ID	99SPORT0233-08
Lab ID	9907648-08
Matrix	Soil
Date Collected	07/20/99
Date Received	07/20/99
Priority	Rush
Collector	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		3400	144	238	ug/kg	5.0	AME	07/21/99	1640	153834	1

**The following prep procedures were performed:**

ICP Mass Spec

AJM 07/20/99 1800 153834 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	EPA 3050

**Notes**

The qualifiers in this report are defined as follows:

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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.

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# GENERAL ENGINEERING LABORATORIES

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## Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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 NPWC00197

Report Date: July 22, 1999

Page 1 of 1

Sample ID 99SPORT0233-09  
Lab ID 9907648-09  
Matrix Soil  
Date Collected 07/20/99  
Date Received 07/20/99  
Priority Rush  
Collector Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		8450	152	250	ug/kg	5.0	AME	07/21/99	1646	153834	1

### The following prep procedures were performed:

ICP Mass Spec

AJM 07/20/99 1800 153834 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	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.

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

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Reviewed By



QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9907648%

Report Date: July 22, 1999

Page 1 of 1

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
<b>Metals Analysis</b>													
QC629975	BLANK	153834											
Lead							-56.5 ug/kg					AME	07/21/99 1525
QC629976	LCS	153834											
Lead			135000				139000 ug/kg		103	(70.0 - 120.)		AME	07/21/99 1531
QC629977	9907648-09MS	153834											
Lead			4760	8450			20500 ug/kg		253**	(67.3 - 122.)		AME	07/21/99 1659
QC629978	9907648-09MSD	153834											
Lead			4760	8450			27200 ug/kg	43.6**	393	(0.00 - 23.2)		AME	07/21/99 1705
QC630545	9907648-09SERIAL	153834											
Lead				8450			8140 ug/kg	3.78				AME	07/21/99 1659

Notes:

The qualifiers in this report are defined as follows:

J indicates presence of analyte < RL (Report Limit)

U indicates presence of analyte < DL (Detect Limit)

n/a indicates that spike recovery limits do not apply when

sample concentration exceeds spike conc by a factor of 4 or more

NPWC00197

3-DAY-TURN

9907648%

General Engineering Laboratories, Inc.  
2040 Savage Road  
Charleston, South Carolina 29407  
P.O. Box 30712  
Charleston, South Carolina 29417  
(803) 556-8171

# CHAIN OF CUSTODY RECORD

Page 1 of 1

**RUSH!**

Client Name/Facility Name			SAMPLE ANALYSIS REQUIRED (X) - use remarks area to specify specific compounds or methods														Use F or P in the boxes to indicate whether sample was filtered and/or preserved								
SPORTEN UDET (HASN)																	41479								
Collected by/Company																	Remarks								
SPORTEN UDET (HASN)																									
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method Required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Ph	ICP	
01 99SPORT 233-01	7/20/99	0823	X	X			1																X		NBCA 002 SB 315 01
02 99SPORT 233-02	7/20/99	0828	X	X			1																X		NBCA 002 SB 306 0-201
03 99SPORT 233-03	7/20/99	0837	X	X			1																X		NBCA 002 SB 307 01
04 99SPORT 233-04	7/20/99	0847	X	X			1																X		NBCA 002 SB 308 01
05 99SPORT 233-05	7/20/99	0856	X	X			1																X		NBCA 002 SB 309 01
06 99SPORT 233-06	7/20/99	0859	X	X			1																X		NBCA 002 SB 310 01
07 99SPORT 233-07	7/20/99	0810	X	X			1																X		NBCA 002 SB 311 01
08 99SPORT 233-08	7/20/99	0805	X	X			1																X		NBCA 002 SB 312 01
09 99SPORT 233-09	7/20/99	0803	X	X			1																X		NBCA 002 SB 313 01
																							NOTE: SAMPLES PRESERVED @ 4°C.		
Relinquished by: <i>[Signature]</i>			Date: 7/20/99	Time: 1119	Received by: <i>W.R. Hiery, Jr.</i>			Relinquished by: <i>W.R. Hiery, Jr.</i>			Date: 7/20/99	Time: 1311	Received by: _____												
Relinquished by: _____			Date: _____	Time: _____	Received by lab by: <i>[Signature]</i>			Date: 7/20/99	Time: 1311	Remarks: _____															

White = sample collector    Yellow = file    Pink = with report



# GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a commitment for tomorrow

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: NPWC00197

Report Date: July 29, 1999

Page 1 of 1

Sample ID: 99SPORT0234-01  
Lab ID: 9907815-01  
Matrix: Soil  
Date Collected: 07/20/99  
Date Received: 07/21/99  
Priority: Routine  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		1200	29.4	50.0	ug/kg	1.0	JSS	07/29/99	2305	154407	1

**The following prep procedures were performed:**

ICP Mass Spec

AJM 07/27/99 1545 154407 2

**M = Method**

**Method-Description**

M 1 SW 846 6020  
M 2 EPA 3050

**Notes**

The qualifiers in this report are defined as follows:

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

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.

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

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, Elise Hanson at 843-556-8171.

Reviewed By



QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

Job: NPWC00197

Lab Sample ID: 9907815%

Report Date: July 29, 1999

Page 1 of 1

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
<b>Metals Analysis</b>													
QC632284	BLANK	154407											
Lead						11.8	ug/kg				JSS	07/28/99	2253
QC632285	LCS	154407											
Lead			125000			143000	ug/kg		114	(70.0 - 120.)	JSS	07/28/99	2305
QC632290	LCS	154407											
Lead			131000			157000	ug/kg		120	(70.0 - 120.)	JSS	07/29/99	0056
QC632291	LCS	154407											
Lead			134000			150000	ug/kg		112	(70.0 - 120.)	JSS	07/29/99	0103
QC632292	LCS	154407											
Lead			130000			156000	ug/kg		120	(70.0 - 120.)	JSS	07/29/99	0110
QC632293	LCS	154407											
Lead			130000			153000	ug/kg		117	(70.0 - 120.)	JSS	07/29/99	0117
QC632287	9907815-01MS	154407											
Lead			4900	1200		9020	ug/kg		160**	(67.3 - 122.)	JSS	07/28/99	2317
QC632288	9907815-01MSD	154407											
Lead			4810	1200		8390	ug/kg	6.65	149	(0.00 - 23.2)	JSS	07/28/99	2323
QC632286	9907815-01SERIAL	154407											
Lead				1200		5160	ug/kg	124			JSS	07/28/99	2311

Notes:

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U indicates presence of analyte < DL (Detect Limit)

n/a indicates that spike recovery limits do not apply when

sample concentration exceeds spike conc by a factor of 4 or more

NPWC00197

99078159

General Engineering Lab  
2040 Savage Road  
Charleston, South Carolina 29407  
PO Box 30712  
Charleston, South Carolina 29417  
(803) 556-8171

# CHAIN OF CUSTODY RECORD

— 3 DAY TURNAROUND —

Page 1 of 1

Client Name/Facility Name		SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods										Use F or P in the boxes to indicate whether sample was filtered and/or preserved								
SPORTENYDETCHASN												←								
Collected by/Company		# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	PB	ICP	Remarks
SAMPLE ID	DATE																			
1-99SPORT 0231-d1	7/20/99	1448																	X	NBCA #2 5B314 #1
NOTE: SAMPLE PRESERVED @ 4°C.																				
Relinquished by:		Date:	Time:	Received by:		Relinquished by:		Date:	Time:	Received by:										
<i>[Signature]</i>		7/20/99	1520	W.R. Thiers, Jr.		W.R. Thiers, Jr.		7/21/99	1457	[Signature]										
Relinquished by:		Date:	Time:	Received by lab by:		Date:	Time:	Remarks:												
<i>[Signature]</i>		7/21/99	1130	[Signature]		7/21/99	1130													

White = sample collector    Yellow = file    Pink = with report



# GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow

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 NPWC00197

Report Date: July 29, 1999

Page 1 of 1

Sample ID 99SPORT0236-01  
Lab ID 9907721-01  
Matrix Soil  
Date Collected 07/22/99  
Date Received 07/22/99  
Priority Routine  
Collector Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Lead		3140	144	238	ug/kg	5.0	AME	07/27/99	1536	154163	1

### The following prep procedures were performed:

ICP Mass Spec

AJM 07/23/99 1915 154163 2

### M = Method

### Method-Description

M 1 SW 846 6020  
M 2 EPA 3050

### Notes

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

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, Elise Hanson at 843-556-8171

Reviewed By



QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

Case: NPWC00197

Lab Sample ID: 9907721%

Report Date: July 29, 1999

Page 1 of 1

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
<b>Metals Analysis</b>													
QC631258	BLANK	154163											
Lead						2.50	ug/kg				AME	07/27/99	1524
QC631259	LCS	154163											
Lead			135000			131000	ug/kg		96.8	(70.0 - 120.0)	AME	07/27/99	1530
QC631261	9907721-01MS	154163											
Lead			4950	3150		9120	ug/kg		121	(67.3 - 122.0)	AME	07/27/99	1548
QC631262	9907721-01MSD	154163											
Lead			4550	3150		7900	ug/kg	14.4	104	(0.00 - 23.2)	AME	07/27/99	1555
QC631260	9907721-01SERIAL	154163											
Lead				3150		4290	ug/kg	30.7			AME	07/27/99	1542

Notes:

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U indicates presence of analyte < DL (Detect Limit)

n/a indicates that spike recovery limits do not apply when sample concentration exceeds spike conc by a factor of 4 or more

NPWC00197

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 Charleston, South Carolina 29417  
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# CHAIN OF CUSTODY RECORD

Page 1 of 1

99077212

Client Name/Facility Name				SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods																	Remarks	
Collected by/Company				# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method Required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Pb ICP		
SAMPLE ID	DATE	TIME	WELL SOIL COMP GRAB																			
SPORT 236-01	7/22/99	0721	X X	1																	X	41554 Remarks NACA 2.58 315 41
<del>SPORT 234-01</del>																						
*NOTE: SAMPLE PRESERVED @ 4°C.																						
Relinquished by: <i>[Signature]</i>		Date: 7-22-99	Time: 0802	Received by: W. R. Hiers, Jr.		Relinquished by: W. R. Hiers, Jr.		Date: 7/22/99	Time: 0900	Received by: _____												
Relinquished by: _____		Date: _____	Time: _____	Received by lab by: P. Hiers		Date: 7/22/99	Time: 09:00	Remarks: _____														

White = sample collector    Yell w = file    Pink = with report



# GENERAL ENGINEERING LABORATORIES

1002 ... ..

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

NC NPWC00197

Report Date: August 03, 1999

Page 1 of 1

Sample ID 99SPORT0229-01  
 Lab ID 9907E02-01  
 Matrix Soil  
 Date Collected 07/29/99  
 Date Received 07/29/99  
 Priority Rush  
 Collector Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		8670	154	490	ug/kg	20	AME	07/30/99	1902	154840	1

### The following prep procedures were performed:

TRACE

AJM 07/30/99 1230 154840 2

### M = Method

### Method-Description

M1 EPA 6010B  
 M2 EPA 3050

### Notes

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in accordance with General Engineering Laboratories

standard operating procedures. Please direct

any questions to your Project Manager, Elise Hanson at 843-556-8171

  
 \_\_\_\_\_  
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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 NPWC00197

Report Date August 03, 1999

Page 1 of 1

Sample ID 99SPORT0229-02  
 Lab ID 9907E02-02  
 Matrix Soil  
 Date Collected 07/29/99  
 Date Received 07/29/99  
 Priority Rush  
 Collector Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		3680	147	467	ug/kg	20	AME	07/30/99	1908	154840	1

The following prep procedures were performed:  
 TRACE

AJM 07/30/99 1230 154840 2

### M = Method

### Method-Description

M 1 EPA 6010B  
 M 2 EPA 3050

### Notes

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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

Project: NPWC00197

Report Date: August 03, 1999

Page 1 of 1

Sample ID: 99SPORT0229-03  
 Lab ID: 9907E02-03  
 Matrix: Soil  
 Date Collected: 07/29/99  
 Date Received: 07/29/99  
 Priority: Rush  
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		18200	157	500	ug/kg	2.0	AME	07/30/99	1914	154840	1

**The following prep procedures were performed:**

TRACE

AJM 07/30/99 1230 154840 2

**M = Method**

**Method-Description**

M 1: EPA 6010B  
 M 2: EPA 3050

**Notes:**

The qualifiers in this report are defined as follows

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

Job: NPWC00197

Lab. Sample ID: 9907E02%

Report Date: August 03, 1999

Page 1 of 1

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
<b>Metals Analysis</b>													
QC634028	BLANK	154840											
Lead							45.7 ug/kg					AME 07/30/99	1740
QC634032	9907DF5-02DUP	154840		78400		13700	ug/kg	140				AME 07/30/99	1809
QC634029	LCS	154840											
Lead			125000			142000	ug/kg		114	(80.4 - 117.)		AME 07/30/99	1746
QC634030	LCS DUP	154840											
Lead			124000			142000	ug/kg	0.795	115	(0.00 - 20.1)		AME 07/30/99	1752
QC634031	9907DF5-02MS	154840											
Lead			46300	78400		63500	ug/kg		-32.2**	(70.6 - 123.)		AME 07/30/99	1820
QC634054	SERIAL	154840											
Lead				13700		17700	ug/kg	25.4				AME 07/30/99	1814

Notes:

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NPWC00197

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 Charleston, South Carolina 29417  
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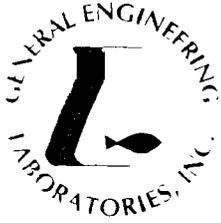
**CHAIN OF CUSTODY RECORD**

9907ED21

Page 1 of 1

Client Name/Facility Name SPORTENV DETCHASN				# OF CONTAINERS	SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods																Use F or P in the boxes to indicate whether sample was filtered and/or preserved  <div style="font-size: 2em; text-align: center;">41725</div>
Collected by/Company SPORTENV DETCHASN					pH. conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	PB ICP	
SAMPLE ID	DATE	TIME	WELL SOIL COMP GRAB																		
01 99SPORT0229-01	7-29-99	13:10	X X	1																X	NBCA 002 SB 316 01
02 99SPORT0229-02	7-29-99	13:14	X X	1																X	NBCA 002 SB 317 01
03 99SPORT0229-03	7-29-99	13:18	X X	1																X	NBCA 002 SB 318 01
NOTE: SAMPLES PRESERVED @ 4°C																					
Relinquished by: <i>[Signature]</i>				Date: 7/29/99	Time: 13:49	Received by: <i>[Signature]</i>				Relinquished by: <i>[Signature]</i>				Date: 7/29/99	Time: 1:45	Received by: <i>[Signature]</i>					
Relinquished by: <i>[Signature]</i>				Date: 7/29/99	Time: 1604	Received by lab by: <i>[Signature]</i>				Date: 7/29/99	Time: 1604	Remarks:									

White = sample collector    Yellow = file    Pink = with rep rt



# GENERAL ENGINEERING LABORATORIES

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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 NPWC00197

Report Date: August 10, 1999

Page 1 of 1

Sample ID	99SPORT0239-01
Lab ID	9908073-01
Matrix	Soil
Date Collected	08/03/99
Date Received	08/03/99
Priority	Routine
Collector	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		2240	157	500	ug/kg	2.0	MBL	08/09/99	1753	155259	1

**The following prep procedures were performed:**

TRACE

AJM 08/05/99 1545 155259 2

**M = Method**

**Method-Description**

M 1	EPA 6010B
M 2	EPA 3050

**Notes.**

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Reviewed By





# GENERAL ENGINEERING LABORATORIES

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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: NPWC00197

Report Date: August 10, 1999

Page 1 of 1

Sample ID	99SPORT0239-02
Lab ID	9908073-02
Matrix	Soil
Date Collected	08/03/99
Date Received	08/03/99
Priority	Routine
Collector	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		1810	157	500	ug/kg	2.0	MBL	08/09/99	1759	155259	1

**The following prep procedures were performed:**

TRACE

AJM 08/05/99 1545 155259 2

**M = Method**

**Method-Description**

M 1	EPA 6010B
M 2	EPA 3050

**Notes**

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Reviewed By





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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

Job: NPWC00197

Report Date: August 10, 1999

Page 1 of 1

Sample ID 99SPORT0239-03  
Lab ID 9908073-03  
Matrix Soil  
Date Collected 08/03/99  
Date Received 08/03/99  
Priority Routine  
Collector Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		2130	143	455	ug/kg	2.0	MBL	08/09/99	1805	155259	1

**The following prep procedures were performed:**

TRACE

AJM 08/05/99 1545 155259 2

**M = Method**

**Method-Description**

M 1 EPA 6010B  
M 2 EPA 3050

**Notes**

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Reviewed By



QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

Acc: NPWC00197

Lab. Sample ID: 9908073%

Report Date: August 10, 1999

Page 1 of 1

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
<b>Metals Analysis</b>													
QC635721	BLANK	155259											
Lead						229	ug/kg					MBL	08/09/99 1737
QC635722	LCS	155259											
Lead			1280000			138000	ug/kg		10.8**	(80.4 - 117.)		MBL	08/09/99 1743
QC635724	9908115-06MS	155259											
Lead			49500	20900		69000	ug/kg		37.4	(70.6 - 123.)		MBL	08/09/99 1913
QC635725	9908115-06MSD	155259											
Lead			48500	20900		70500	ug/kg	5.09	91.9	(0.00 - 20.3)		MBL	08/09/99 1920
QC635723	9908115-06SERIAL	155259											
Lead				20900		21300	ug/kg	1.84				MBL	08/09/99 1907

Notes:

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U indicates presence of analyte < DL (Detect Limit)

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NPWC00197

General Engineering Laboratories, Inc.  
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 Charleston, South Carolina 29407  
 P.O. Box 30712  
 Charleston, South Carolina 29417  
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# CHAIN OF CUSTODY RECORD

99080731

Page 1 of 1

Client Name/Facility Name		Collected by/Company		WELL	SOIL	COMP	GRAB	# OF CONTAINERS	SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods																	Remarks
SPORTEN VDE TCHASN		SPORTEN VDE TCHASN							pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Pb ICP		
97	SPORT 237-d1	08/03/99	1039	X	X			1														X	NBCA 2 SB 319 d2			
629	SPORT 239-d2	08/03/99	1047	X	X			1														X	NBCA 2 SB 320 d2			
639	SPORT 239-d3	08/03/99	1100	X	X			1														X	NBCA 2 SB 321 d2			
NOTE: SAMPLES PRESERVED @ 4°C																										

Relinquished by: Barry Lee Date: 8/3/99 Time: 1500 Received by: W. B. Thiers, Jr  
 Relinquished by: Stephenie Bettel Date: 8/3/99 Time: 1545 Received by lab by: BRAND  
 Relinquished by: W. K. Thiers, Jr Date: 8/3/99 Time: 1528 Received by: Stephenie Bettel

WH Sample collector Yellow = file Pink = with report