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CONTAMINATION ASSESSMENT REPORT ADDENDUM ALPHA-DELTA PIER NS MAYPORT
FL
3/1/1993
ABB ENVIRONMENTAL SERVICES

**CONTAMINATION ASSESSMENT REPORT
ADDENDUM**

**ALPHA-DELTA PIER
NAVAL STATION MAYPORT
MAYPORT, FLORIDA**

UIC: N65928

Contract No. N62467-89-D-0317

Prepared by:

**ABB Environmental Services, Inc.
2590 Executive Center Circle, East
Berkeley Building
Tallahassee, Florida 32301-5001**

AUTHORS

**Allan M. Stodghill
Kelly R. Murray
Michael J. Williams**

Prepared for:

**Department of the Navy, Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, South Carolina 29418**

Carl Loop, Code 1847, Engineer-in-Charge

March 1993

Contamination Assessment Report Addendum
Alpha-Delta Pier
NAVSTA Mayport, Mayport, Florida

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The Alpha-Delta Pier site is located in the southwest part of the Turning Basin at Naval Station (NAVSTA) Mayport, Duval County, Florida. In 1985, it was discovered that a diesel fuel marine (DFM) pipeline valve was broken. The resulting loss of product was estimated to be greater than 500 gallons. The DFM pipeline was repaired and the contaminant source abated. In 1988, free product and water were recovered from a manhole located south of the 1985 pipeline break. The amount of free product recovered is estimated to be between 500 and 1,000 gallons. In January 1993, approximately 50 gallons of free product and water were also removed from the manhole. In the Spring of 1992, 234 tons of petroleum-laden soils were removed from the site as a new potable water pipeline was being installed. The contaminated soil was incinerated. The oil and water mixture from dewatering was separated, and the oil discarded to the oily waste treatment system. The quantity of oily waste treated at the facility is unknown.

In September 1989, a DFM pipeline valve was hit during excavation operations at the west end of Alpha Pier. It was estimated that less than 10 gallons of product was lost. Tests indicated that the petroleum in the excavated soil was both DFM and oily waste.

Structural competency tests were conducted on the Alpha Pier oily waste main pipeline in January 1990. Test results indicated that product loss had occurred and that leaky storm sewers were receiving petroleum from (1) oily waste lines along Alpha Pier, (2) product-laden soil and groundwater along Alpha-Delta Pier, and/or (3) both.

CONTAMINATION ASSESSMENT

As a result of the various product-loss events at the Alpha-Delta Pier site, a contamination assessment (CA) was performed by ABB Environmental Services, Inc. (ABB-ES), from June 1992 through September 1992. The objectives of the CA were to identify petroleum contaminants and their likely sources at the site, assess the degree and extent of petroleum contamination in the soil and groundwater, and recommend feasible actions, if necessary, to attain compliance with State regulations.

Fifty-nine soil gas borings, 24 soil borings, 22 shallow monitoring wells, and 2 deep monitoring wells were completed at the site. Soil gas samples, organic vapor analysis samples, gas chromatograph samples, and soil and groundwater quality samples were collected at the site. Soil and groundwater quality samples were analyzed for petroleum constituents of the used oil analytical group as defined in the Florida Department of Environmental Regulation (FDER) Chapter 17-770, Florida Administrative Code (FAC). Figure 1 shows the location of the monitoring wells and the results of the laboratory analyses.

During the CA investigation a previously unknown area of contamination was detected. Evidence indicates that the D1-2 oily waste riser, a waste receptacle at the Delta Pier, is leaky. This riser has not been in service for the last 3 years; therefore, the contaminant source should be abated.

A Contamination Assessment Report (CAR) was submitted to FDER in December 1992. In January 1993, FDER requested additional information about soil contamination

this Contamination Assessment Report Addendum (CARA), and additional information about soil contamination and line tightness tests is provided.

FINDINGS

- Sediments encountered during drilling operations were mostly fill material. Sediments typically consisted of very fine-grained sand, silt, shell material, and construction debris, such as concrete. Naturally occurring sediments consisted of fine-grained sand and shell beds.
- Only the surficial, unconfined aquifer was encountered during drilling operations. The base of this aquifer was not determined during the field investigation. A literature search indicates that the base of the aquifer is approximately 70 feet below land surface (bls).
- Water in the upper part of the unconfined surficial aquifer is classified as G-II. Generally, over much of the facility, groundwater at depths greater than 40 feet bls becomes brackish and is classified as G-III. At the site, groundwater becomes brackish at depths greater than 50 feet bls.
- Groundwater beneath much of the site was encountered at approximately 4.0 feet bls. At the relict beach ridge, inland of the pier, water was encountered at 17 feet bls.
- The overall direction of groundwater flow is northerly toward the bulkheads and Turning Basin.
- Excessively contaminated soil was detected beneath the Alpha and Delta 1 piers. Excessively contaminated soil is located near and west of the D1-2 oily waste riser and in the vicinity of the 1985 diesel fuel marine pipeline break (Figure 1).
- Contaminants detected in the soil include total recoverable petroleum hydrocarbons, extractable organics, naphthalenes, volatile organic aromatics, petroleum-related tentatively identified compounds, arsenic, barium, chromium, and lead.
- Approximately 2 inches of free product was measured in monitoring well MPT-1406-16. The product appears to be degraded. Free product was not detected in any other monitoring well. Free product was detected in two utility manholes. Both manholes are located between monitoring well MPT-1406-16 and the location of the 1985 diesel fuel marine pipeline break. Free product was measured at 1¾ inches in one manhole and 1½ inches in the other. Free product was not detected in any other manhole.
- Groundwater contaminants identified during the CA investigation include total volatile aromatic hydrocarbons (benzene, ethylbenzene, toluene, and xylenes), polynuclear aromatic hydrocarbons, total naphthalenes (naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene), total recoverable petroleum hydrocarbon, tentatively identified compounds, arsenic, chromium, and lead.

or exceed standards or target levels as established by the FDER include benzene, polynuclear aromatic hydrocarbons, total naphthalenes, and total recoverable petroleum hydrocarbons.

- Groundwater contamination is located at two areas: (1) in the vicinity and west of the oily waste riser, D1-2; and (2) in the vicinity of the 1985 diesel fuel marine pipeline break. In general, contamination appears to be restricted to the pier areas. At the 1985 diesel fuel marine pipeline break, contamination extends from the bulkhead to approximately 150 feet inland along Maddox Avenue (Figure 1).
- The diesel fuel marine pipeline has been repaired. The oily waste riser has been taken out of service. The sources of contamination have been abated.
- Evidence of contamination was not found during this investigation at a location in the western part of Alpha Pier where a fuel pipeline was damaged.
- A petroleum sheen has been reported in the Turning Basin. The sheen emanates from storm drain discharge water that empties into the basin. Absorbent booms have been placed at these points of discharge.
- There are 25 production and potable water wells in the vicinity of the facility. Five potable water wells at the facility are within a ¼-mile radius of the site. All five wells are greater than 1,000 feet deep and screened in the Floridan aquifer system.
- Hydraulic conductivity (K) values ranged from 9.06 to 33.20 feet per day. The hydraulic gradient (I) was calculated to be 0.007 foot per foot. Based on the K of 21.13 foot per day and I of 0.007, the average linear pore water velocity (V) in the surficial aquifer at the site was calculated to be 0.59 foot per day.
- There is no documentation on the extent of excavation for the 1985 or 1989 DFM valve repairs. It is believed that no soil removal was initiated, and if a fuel/water mixture was encountered, it was disposed of in the oily waste treatment system. It is a policy of NAVSTA Mayport to dispose of any fuel/water mixture encountered during construction in the oily waste system so that it may be reused. The free product recovered from the manhole in the past has been disposed of in this manner. There is now in place a quarterly schedule for checking the manholes and removing any free product. The amount of free product is being measured and recorded. The last removal occurred in January 1993 and was approximately 50 gallons. We believe that between 1,000 and 2,000 gallons of free product have been recovered from the manholes since the valve break occurred. The limits of excavation during a recent water line replacement contract are documented and delineated in Figure A-1-1 (Appendix A-1). There were no OVA readings performed on the soil removed. The contract identified the entire area near the Alpha-Delta Pier as being contaminated and any soil encountered was to be removed and disposed of in accordance with State regulations. Copies of the manifests and incineration statements from the transportation and disposal of this soil (234 tons) are attached as Appendix A-2.

in the oily waste treatment system.

CONCLUSIONS

- The sources of contamination at the Alpha-Delta Pier were a broken pipeline and an oily waste riser. These sources have been abated.
- Soil at the site is excessively contaminated as defined by FDER Chapter 17-770, FAC. Soil contamination is confined to only the upper 4 feet above the water table.
- Groundwater in the unconfined surficial aquifer has been adversely impacted by petroleum constituents and contaminant levels exceed FDER Chapter 17-770, FAC, groundwater cleanup target levels.
- Potable water wells have not been nor are expected to be impacted by contaminants from the Alpha-Delta Pier site.

RECOMMENDATIONS

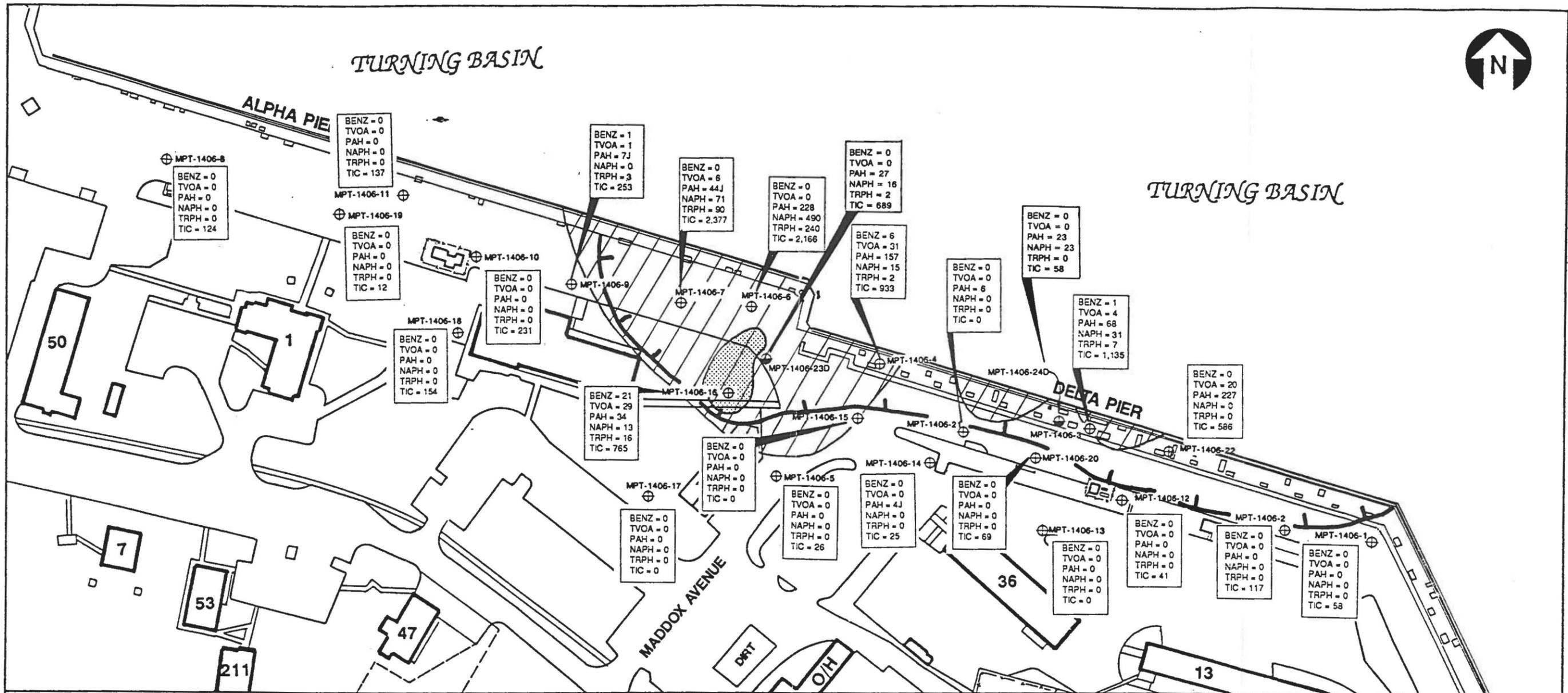
- Monitoring and maintenance of containment booms at points of discharge to the Turning Basin should be continued until a more permanent solution to abating petroleum discharge to the basin can be found.
- Due to the presence of free product and because concentrations of the contaminants in the soil and groundwater beneath the site exceed the FDER Chapter 17-770, FAC, cleanup target levels, ABB Environmental Services recommends that a remedial action plan be prepared to address the contamination and initiate an appropriate course of action.

REMEDIAL ACTIONS

- Since the submittal of the Contamination Assessment Report (CAR) for this site, free product has been recovered from the 1985 diesel fuel pipeline break site. Measures to recover additional free product were implemented in January 1993.
- Absorbent booms have been placed at the points of discharge of the storm sewers.

SPILL CONTAINMENT INITIATIVES

- A pipeline tightness test was performed February 5, 1993, on the entire DFM system. The system was judged to be tight. The next test is scheduled for the first week of July 1993.
- A petroleum products management program is in effect at the facility. This program accounts for all volumes of product handled at the fuel farm and at all piers. Also in place are procedures and action plans to address leaks, spills, and other uncontrolled discharges of petroleum products, as well as emergency remedial plans. NAVSTA Mayport currently operates under accepted procedures detailed in the facility's Spill Prevention Control and Containment (SPCC) Plan.



STATE REGULATORY STANDARDS AND TARGET LEVELS

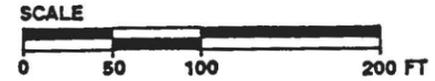
BENZENE	1 (ug/l)
TOTAL VOLATILE ORGANIC AROMATICS	50 (ug/l)
POLYNUCLEAR AROMATIC HYDROCARBONS	10 (ug/l)
TOTAL NAPHTHALENES	100 (ug/l)
TOTAL RECOVERABLE PETROLEUM HYDROCARBONS	5 (mg/l)

LEGEND

⊕ SHALLOW MONITORING WELL LOCATION

BENZ	= BENZENE (ug/l)
TVOA	= TOTAL VOLATILE ORGANIC AROMATICS (ug/l)
PAH	= POLYNUCLEAR AROMATIC HYDROCARBONS (ug/l)
NAPH	= TOTAL NAPHTHALENES (ug/l)
TRPH	= TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (mg/l)
TIC	= TENTATIVELY IDENTIFIED COMPOUNDS (ug/l)

- AREAS OF EXCESSIVELY CONTAMINATED SOILS
- EXTENT OF GROUNDWATER CONTAMINATION, BASED UPON POLYNUCLEAR AROMATIC HYDROCARBONS CONCENTRATIONS OF 10 ug/l OR GREATER
- APPROXIMATE EXTENT OF FREE PRODUCT



**FIGURE 1-1
CONTAMINATION
ASSESSMENT RESULTS**



**CONTAMINATION
ASSESSMENT REPORT
ADDENDUM**
**ALPHA DELTA PIER
NAVAL STATION
MAYPORT, FLORIDA**

APPENDIX A

FDER/SOUTHNAVFACENGCOM Correspondence

March 9, 1993

Florida Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
Attention: Mr. David Clowes

Subject: Meeting with FDER to Discuss Comments
Contamination Assessment Report
Alpha-Delta Pier Site
Naval Station Mayport, Jacksonville, FL

Dear David

On February 18, 1993, Alan Stodghill and I met with Florida Department of Environmental Regulation (FDER) Technical Review Section representatives Jorge Caspary, David Clowes, and Michael Deliz to respond to FDER's comments regarding the Contamination Assessment Report (CAR) submitted for the Alpha - Delta Pier Site at Naval Station (NAVSTA) Mayport. The following is our summary of the discussions that took place during that meeting:

The meeting began at 0912 hours. The purpose of the meeting was primarily to address the comment pertaining to the need for additional soil sample collection and analysis in the areas of the DFM pipeline breaks.

ABB Environmental Services, Inc. (ABB-ES) began by illustrating the soil sampling density around the pipeline breaks. Mr. Clowes stated that FDER was not interested in additional soil samples but needed documentation regarding the product loss from the DFM lines. Types of documentation requested by FDER included manifests for incinerated soil, pipeline tightness test, data stating the amount of product lost, etc. Mr. Clowes stated that ABB-ES must indicate in the CAR that such information had been requested from the facility but that the information was not available. Mr. Stodghill stated that the facility was not able to provide a clear or accurate history of the fuel loss events at the piers.

Mr. Caspary stated that it appeared as if contamination had been defined adequately at the Alpha-Delta Pier site. Mr. Caspary asked if contamination was found. Mr. Clowes responded that contamination had been found at three separate locations. Mr. Caspary noted that he did not see the need for additional soil or groundwater sampling at the site.

Mr. Caspary stated that the CAR was essentially complete. It was decided that the data presented at this meeting would adequately address the FDER's comments. This additional information should be incorporated in a CAR addendum.

Mr. Deliz stated that in the most recent FDER site visit, a fuel sheen could be seen emanating from the storm sewer drains. The oil sheen was spreading out into the turning basin, most notably around the *HMS Britannia*. Mr. Deliz stated that there were no absorbent booms around the mouth of the storm sewer drains. Mr. Deliz wanted to know if the facility was planning to seal the storm drains. ABB-ES stated that sealing the storm drains was a remedial action and had been suggested, but the facility's intentions were unknown at this time. Absorbent booms had been in use during the site investigation.

Mr. Clowes asked if the facility planned pipeline tightness testing in the near future. Mr. Williams presented the testing schedule he had received the previous afternoon from Ms. Mitchell. Mr. Williams also stated that additional testing could be done if requested. Testing is conducted by NAVSTA Mayport fuel depot personnel. Mr. Clowes asked if all the lines could be tested. Mr. Stodghill noted that some of the lines were gravity flow lines and could not be tightness tested. Mr. Stodghill also noted that these ideas were part of our recommendations.

The subject of the meeting changed to other matters and the meeting was concluded at approximately 10:00.

ABB-ES hopes that this summary of the minutes of the February 18th meeting are in keeping with that of FDER. If you have any comments or require additional information or clarification of any of the issues regarding the above meeting, please call.

Sincerely,

ABB ENVIRONMENTAL SERVICES, INC.

Michael J. Williams, P.G.
Principal Scientist

cc: C. Loop
J. Caspary
M. Deliz
A. Stodghill



Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400
Lawton Chiles, Governor
Carol M. Browner, Secretary

January 11, 1993

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

Mr. Carl Loop
Code 18237
Department of the Navy
Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
Post Office Box 10068
Charleston, South Carolina 26411

Dear Mr. Loop:

Department personnel have completed the technical review of the Contamination Assessment Report, Alpha-Delta Pier, NS Mayport. I have enclosed a memorandum addressed to me from Mr. David M. Clowes. It documents our comments on the referenced report.

If I can be of any further assistance with this matter, please contact me at 904/488-0190.

Sincerely,
Eric S. Nuzie
Eric S. Nuzie
Federal Facilities Coordinator

ESN/bb

Enclosure

cc: David M. Clowes
Brian Cheary
Lynn Griffin
John Mitchell
Jerry Young
James Hudson
Kevin Gartland



To: _____	Location: _____
From: _____	Class: _____

Interoffice Memorandum

TO: Eric S. Nuzie, Federal Facilities Coordinator
Bureau of Waste Cleanup

THROUGH: James J. Crane, P.G. III/Administrator *JJC*
Technical Review Section

~~Tim J. Bahr, Professional Geologist II~~ *B*
Technical Review Section

FROM: David M. Clowes, Environmental Specialist II *DMC*
Technical Review Section

DATE: January 5, 1993

SUBJECT: Contamination Assessment Report (CAR) of Alpha-Delta
Pier, dated November 1992, U.S. Naval Station
Mayport, Mayport, Florida.

I have reviewed the above referenced document dated December, 1992 (received December 17, 1992). The document will adequately meet the contamination assessment requirements of Rules 17-770, Florida Administrative Code (F.A.C), once the following information is submitted:

1. Please submit a copy of the line tightness tests in accordance with Chapter 17-761, F.A.C. to establish the structural integrity of the current product storage/distribution system.
2. Documentation (field observations and measurements, volumes, shipping manifest, sampling/analysis results, etc.) regarding the soil Initial Remedial Action (IRA) that was performed (1985 & 1990 fuel spills) should be provided. This documentation should include a map showing the approximate limits of the excavations and the locations of the soil samples, along with a table with the OVA readings used to determine the extent of contaminated soil. Depending on the available documentation, supplemental soil assessment in accordance with Rule 17-770.200(2), F.A.C., and the Department's May 1992 "Guidelines for Assessment and Remediation of Petroleum Contaminated Soils" may be required.
3. Please submit another copy of the chain of custody form. The

January 5, 1993

Page Two

Please provide the results of the supplemental assessment to the Technical Review Section within sixty (60) days of receipt of this request. If additional time is needed, a time extension request should be submitted, in accordance with Section 17-770 (6), F.A.C.

CONTAMINATION ASSESSMENT REPORT OF ALPHA-DELTA PIER
NAVSTA Mayport, Mayport, Florida

COMMENT 1: Please submit a copy of the line tightness tests in accordance with Chapter 17-761, Florida Administrative Code (FAC) to establish the structural integrity of the current product storage/distribution system.

RESPONSE 1: The Naval Supply Center Fuel Farm performs the tightness test on the pipeline at least twice a year and more if situations arise that require it. The tank is gauged before and after the system is pressurized to determine if there has been any loss of product. The test pressurizes the system to 90 pounds per square inch (psi), and it is held at that pressure for a minimum of 1 hour. The time, weather conditions, and ambient temperature are documented at the time of the test. The last test was performed February 5, 1993, and was judged tight; the next test is scheduled for the first week of July. Per the recent Alternate Procedures Agreement between FDER and the Navy, the tanks that supply fuel to NAVSTA Mayport are classified as Cut and Cover tanks and, as such, fall under 17-762 regulation, not 17-761. This piping is bulk product piping and is subject to annual tightness testing under this rule, a requirement which is currently met.

COMMENT 2: Documentation (field observations and measurements, volumes, shipping manifest, sampling/analysis results, etc.) regarding the soil Initial Remedial Action (IRA) that was performed (1985 and 1990 fuel spills) should be provided. This documentation should include a map showing the approximate limits of the excavations and the locations of the soil samples, along with a table with the OVA readings used to determine the extent of contaminated soil. Depending on the available documentation, supplemental soil assessment in accordance with Rule 17-770.200(2), FAC, and the Department's May 1992 *Guidelines for Assessment and Remediation of Petroleum Contaminated Soils* may be required.

RESPONSE 2: There is no documentation on the extent of excavation for the 1985 or 1989 DFM valve repairs. It is believed that no soil removal was initiated, and if a fuel/water mixture was encountered, it was disposed of in the oily waste treatment system. It is a policy of NAVSTA Mayport to dispose of any fuel/water mixture encountered during construction in the oily waste system so that it may be reused. The free product recovered from the manhole in the past has been disposed of in this manner. There is now in place a quarterly schedule for checking the manholes and removing any free product. The amount of free product is being measured and recorded. The last removal occurred in January 1993 and was approximately 50 gallons. We believe that between 1,000 and 2,000 gallons of free product have been recovered from the manholes since the valve break occurred. The limits of excavation during a recent water line replacement contract are documented and delineated in Figure A-1-1 (Appendix A-1). There were no OVA readings performed on the soil removed. The contract identified the entire area near the Alpha-Delta pier as being contaminated and any soil encountered was to be removed and disposed of in accordance with State regulations. Copies of the manifests and incineration statements from the transportation and disposal of this soil (234 tons) are attached as Appendix A-2. 18,000 gallons of the fuel/water mixture from dewatering was disposed of in the oily waste treatment system.

included with the report is illegible.

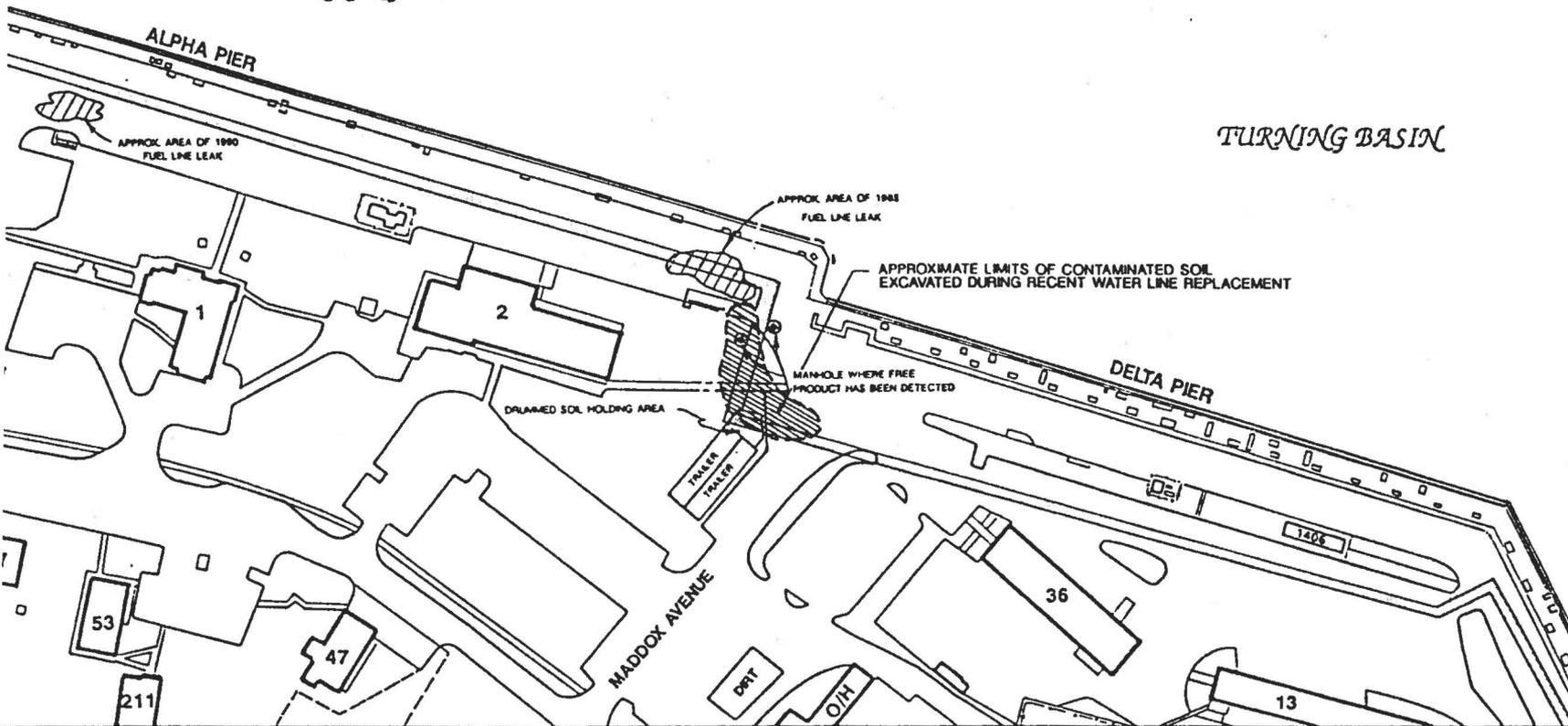
RESPONSE 3: As requested, legible copies of the chain of custody records for the laboratory analytical data are included as Attachment B.

APPENDIX A-1

**Approximate Limits of Contaminated Soil
Excavated During Recent Water Line Replacement**

TURNING BASIN

TURNING BASIN



LEGEND

-  APPROX LOCATION OF KNOWN FUEL LEAKS
-  NEWLY INSTALLED POTABLE WATER LINE
-  MANHOLE COVER

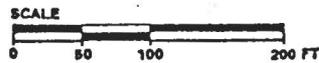


FIGURE A-1-1

KNOWN FUEL SPILL LOC.



**CONTAMINATION
ASSESSMENT
ADDENDUM
ALPHA DELTA
NAVAL STATION
MAYPORT, FL**

APPENDIX A-2

**Contaminated Soil Transportation
and Disposal Documentation**

3. Generator's Name and Mailing Address United States Navy / RO ICC
ATTN Michael Davenport
Code #4214, Naval Station, Mayport, FL. 32228

Truck # 180

Navy's Div

4. Generator's Phone (904) 241-6730

5. Transporter 1 Company Name
Pritchett Trucking Co

6. US EPA ID Number
N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Anderson Columbia Environmental
Plant #7, 6599 SR 218
Maxville, FL. 32234

10. US EPA ID Number
AO. 10-91939

A. Transporter's Phone 1-496-2630

B. Transporter's Phone

C. Facility's Phone

904-289-7135

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total Quantity

14. Unit Wt/Vol

a. Petroleum Contaminated Soil

001 DT . . 2.4 CY

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

Anderson Columbia
Env # 7601

15. Special Handling Instructions and Additional Information

Soil from Alpha and Delta Piers

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

CHERYLL MITCHELL

Signature

[Signature]

Month Day Year

03/26/92

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Michael E Gordon

Signature

[Signature]

Month Day Year

03/26/92

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

GENERATOR

TRANSPORTER

FACILITY

TO:

ANDERSON COLUMBIA
PLANT # 7
DAVENPORT FL. 32234

CUSTOMER ANDERSON COLUMBIA ENVIR.
UNITED STATES NAVY/ROTCC
JOB #7601

ACCOUNT #	AMIX	TRUCK #	TONS
43		32	
T #	7601		
ID #	6		

0000000001

NAME:NAVY
NAME:CONT. SOIL
TRUCK ID:180

LOSS : 73300 LB
WRE : 22900 LB
NET WT: 30400 LB 25.20 TONS

USN Dirt

CUM THIS PJT 25.20 TONS
CUM THIS TRUCK 25.20 TONS

SALEMAN

Cher, C. R...

Mike Gordon

RECEIVED BY

LOAD INSP

Thank You

3. Generator's Name and Mailing Address: *United States Navy / ROICC*

ATTN Michael Davenport
Code #4214, Naval Station, Mayport, FL 32228

4. Generator's Phone *(904) 241-6730*

Track # 20

Navy's Dirt
Load # 2

5. Transporter 1 Company Name

Pritchett Trucking Co.

6. US EPA ID Number

N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Anderson Columbia Environmental
Plant #7, 6599 SR 218
Maxville, FL 32234

10. US EPA ID Number

AC 10-91939

A. Transporter's Phone *1-496-2630*

B. Transporter's Phone

C. Facility's Phone

904-289-7135

11. Waste Shipping Name and Description

a. *Petroleum Contaminated Soil*

12. Containers

No. Type

001 DT

13. Total Quantity

24 CY

14. Unit Wt/V

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

Anderson Columbia
Env. # 7601

15. Special Handling Instructions and Additional Information

Soil from Alpha and Delta Piers

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

CHARL C MITCHELL

Signature

Charl C Mitchell

Month Day Year

10 3 26 92

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

WARREN LEE

Signature

Warren Lee

Month Day Year

10 3 26 92

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

GENERATOR

TRANSPORTER

FACILITY

TO:

ANDERSON COLUMBIA

CUSTOMER ANDERSON COLUMBIA ENVIR.
UNITED STATES NAVY/ROTCC

PLANT # 7

JOB # 7601

ACCOUNT	FL. MIX	TRUCK	TONS
03143	AM	03726732	

0000000002

IT #: 7601

NAME: NAVY
NAME: CONT. SOIL
TRUCK ID: 20

ID #: 6

IT # : 7

GROSS : 72540 LB

TARE : 23300 LB

NET WT: 49240 LB 24.62 TONS

WGT THIS PJT 49.82 TONS

WGT THIS TRUCK 24.62 TONS

255N Dirt

SALESMAN

Cher...

RECEIVED BY

W Lee

LOAD INSP

Thank You

WASTE MANIFEST

3. Generator's Name and Mailing Address *United States Navy / ROICL*
Attn: Michael Davenport
 Code # *4214, Naval Station, Mayport, FL 32228*
 4. Generator's Phone *(904) 241-6730*

Truck # ~~30~~ 352
Navy's Dirt
Load # 3

5. Transporter 1 Company Name
Pritchett Trucking Co.
 6. US EPA ID Number
N/A

7. Transporter 2 Company Name
 8. US EPA ID Number

9. Designated Facility Name and Site Address
Anderson Columbia Environmental
Plant # 7, 6599 SR 218
Maxville, FL 32234
 10. US EPA ID Number
AO 10-96939

A. Transporter's Phone
 B. Transporter's Phone *1-496-2630*
 C. Facility's Phone
904-289-7135

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. <i>Petroleum Contaminated Soil</i>	<i>φ.φ.1</i>	<i>DT</i>	<i>2.4</i>	<i>CY</i>
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above
Anderson Columbia
Env # 7601

15. Special Handling Instructions and Additional Information
Soil from Alpha + Delta Piers

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name *CHEVY L. MITCHELL* Signature *Chevy L. Mitchell* Month *03* Day *26* Year *92*

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name *Bob Baker* Signature *Bob Baker* Month *03* Day *26* Year *92*

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

GENERATOR

TRANSPORTER

FACILITY

PERSON COLUMBIA
UNIT # 7

CUSTOMER ANDERSON COLUMBIA EMVIR.
UNITED STATES NAVY/ROTCC

QUANTITY	FL. MIX	TRUCK	TONS
10703	AM	0372673E	
#:7601			
#:6			

JOB #7601

0000000003

NAME:NAVY
NAME:CONT. SOIL
TRUCK ID:352

ISS : 75300 LB
WE : 23000 LB
WT: 52300 LB 26.15 TONS

SUM THIS PJT 75.97 TONS
SUM THIS TRUCK 26.15 TONS

OPERMAN

Cheryl Riggs

USN Dirt
Bob Baker

RECEIVED BY

AD INSP

Thank You

WASTE MANIFEST

004

of ENO 101A

3. Generator's Name and Mailing Address *United States Navy / ROICC
ATTN Michael Davenport
Code #4214, Naval Station, Mayport, FL 32228*

*Truck #302
Navy's Dirt
Load #4*

4. Generator's Phone *(904) 241-6730*

5. Transporter 1 Company Name
Pritchett Trucking Co

6. US EPA ID Number
N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
*Anderson Columbia Environmental
Plant #7, 6599 SR 218
Maxville, FL 32234*

10. US EPA ID Number

AO 10-91939

A. Transporter's Phone
B. Transporter's Phone *1-496-2630*
C. Facility's Phone
904-289-7135

11. Waste Shipping Name and Description

12. Containers	13. Total Quantity	14. Unit Wt/Vol
<i>001</i>	<i>DT</i>	<i>24 CY</i>

a. *Petroleum Contaminated Soil*

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above
*Anderson Columbia
Env. # 7601*

15. Special Handling Instructions and Additional Information

Soil from Alfa and Delta Piers

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name
CHEYLL MITCHELL

Signature
Cheyll Mitchell

Month Day Year
03 26 92

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name
Robert G. Baker

Signature
Robert G. Baker

Month Day Year
03 26 92

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

GENERATOR

TRANSPORTER

FACILITY

TO:

ANDERSON COLUMBIA
PLANT # 7

CUSTOMER ANDERSON COLUMBIA ENVIR.
UNITED STATES NAVY/ROTCC

ACCOUNT	FL. MIX	TRUCK	TONS
10322	AM	03726792	

JOB #7601

0000000004

JT #: 7601

NAME: NAVY

RD #: 6

NAME: CONT. SOIL

IT # : 7

TRUCK ID: 353

ROSS : 92220 LB

ARE : 24500 LB

ET WT: 57720 LB 28.86 TONS

USN Dirt

CCUM THIS PJT 104.93 TONS

CCUM THIS TRUCK 28.86 TONS

CALEMAN

Cheryl Resp

Roll H. B. Jr

RECEIVED BY

QAD INSP

Thank You

WASTE MANIFEST

3. Generator's Name and Mailing Address **UNITED STATES NAVY / ROZCL**
 Attn: Michael Davenport
 Code # 4214, Naval Station, Mayport, FL 32228
 4. Generator's Phone (904) 241-6730

Truck # 356
 Navy's Dirt
 Load # 5

5. Transporter 1 Company Name **Pritchett Trucking Co.**
 6. US EPA ID Number **N/A**

7. Transporter 2 Company Name
 8. US EPA ID Number

9. Designated Facility Name and Site Address **Anderson Columbia Environmental**
Plant #7, 6549 SR 218
Maxville, FL 32234
 10. US EPA ID Number **A.O. 10-919.39**

A. Transporter's Phone
 B. Transporter's Phone **1-496-2630**
 C. Facility's Phone **904-289-7135**

11. Waste Shipping Name and Description

12. Containers	13. Total Quantity	14. Unit Wt/Vol
No. Type		

a. **Petroleum Contaminated Soil**

	φφ.1 DT	2.4 CY
--	----------------	---------------

b.

--	--	--

c.

--	--	--

d.

--	--	--

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above
Anderson Columbia
Env. # 7601

15. Special Handling Instructions and Additional Information
Soil from Alfa and Delta Piers

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name
CHEYL L. MITCHELL

Signature

Month Day Year
10 32 1992

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name
Gregory Alan Shaw

Signature

Month Day Year
10 32 1992

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

GENERATOR

TRANSPORTER

FACILITY

TO:

ANDERSON COLUMBIA
CONT # 7

CUSTOMER ANDERSON COLUMBIA EMVIA,
UNITED STATES NAVY/ROTCC

5600	FL. MIX	2234 TRUCK	TONS
11:19 AM			

TRUCK #7601

0000000005

TRUCK # : 7601
CONT # : 6
TRUCK # : 7

NAME: NAVY
NAME: CONT. SOIL
TRUCK ID: 356

WEIGHT : 82560 LB
DRE : 27800 LB
NET WT : 54760 LB 27.38 TONS

USN Dirt

TOTAL THIS PJT : 132.21 TONS
TOTAL THIS TRUCK : 27.38 TONS

SALEMAN

[Signature]
RECEIVED BY

LOAD INSP

Thank You

WASTE MANIFEST

3. Generator's Name and Mailing Address **United States Navy / ROICC**
ATTN: MICHAEL DWENPORT
CODE # 4214, NAVAL STATION, MAYPORT, FL 32228

4. Generator's Phone ()

Truck # 20
Navy's Bort
Load # 6

5. Transporter 1 Company Name **PRITCHELL TRUCKING Co.**

6. US EPA ID Number **N/A.**

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address **Anderson Columbia Environmental Plant #7, 6599 SR 218 Maxville, FL 32234**

10. US EPA ID Number **1A0.10.-94939.**

A. Transporter's Phone
 B. Transporter's Phone **1-496-2630**
 C. Facility's Phone **904-289-7135**

11. Waste Shipping Name and Description

12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
--------------------	------	--------------------	-----------------

a. **Petroleum Contaminated Soil**

04	10T	2.4	CY
-----------	------------	------------	-----------

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above
Anderson Columbia
Env. # 7601

15. Special Handling Instructions and Additional Information
Soil from Alpha and Delta Piers

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name
CHOUY L. MITCHELL

Signature
Chouy L. Mitchell

Month Day Year
03 | 26 | 92

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name
Warren Lee

Signature
Warren Lee

Month Day Year
03 | 26 | 92

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

GENERATOR

TRANSPORTER

FACILITY

0:

PERSON COLUMBIA
ANT # 7
XVILLE FL. 32234

CUSTOMER ANDERSON COLUMBIA ENVIA,
UNITED STATES NAVY/ROTCC
JOB #7601

COUNT	PMIX	037A06K/92	TONS
T # : 7601			
D # : 6			
T # :			

0000000006

NAME:NAVY
NAME:CONT. SOIL
TRUCK ID:20

OSS : 80220 LB
RE : 23300 LB
T WT: 36920 LB 28.46 TONS

USN Dirt

CUM THIS PJT 160.67 TONS
CUM THIS TRUCK 53.08 TONS

ALEMAN

AD INSP

[Handwritten signature]

[Handwritten signature]

RECEIVED BY

Thank You

WASTE MANIFEST

3. Generator's Name and Mailing Address *U.S. Navy / ROTEC*
ATTN Michael Davenport
 4. Generator's Phone () *Code # 4214, Naval Station Mayport FL 32228*

Truck # 180
Navy's Drift
Load # ?

5. Transporter 1 Company Name *Pritchett Trucking Co* 6. US EPA ID Number *N/A*

7. Transporter 2 Company Name 8. US EPA ID Number

9. Designated Facility Name and Site Address *Anderson Columbia Environmental*
Plant #1 6599 SR 218
Mauleville FL 32234 10. US EPA ID Number *A.O. 1.0-9.1.9.3.9*

A. Transporter's Phone
 B. Transporter's Phone *1-496-2630*
 C. Facility's Phone *904-289-7135*

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. <i>Petroleum contaminated soil</i>	<i>1</i>	<i>D.T</i>	<i>25</i>	<i>CY</i>
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above
Anderson Columbia
Env. # 7601

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name *CHERYL L. MITCHELL* Signature *Cheryl L. Mitchell* Month *3* Day *26* Year *92*

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name *Michael E Gordon* Signature *Michael E Gordon* Month *3* Day *26* Year *92*

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

GENERATOR

TRANSPORTER

FACILITY

WASTE MANIFEST

3. Generator's Name and Mailing Address **U.S. Navy, ROICC**
ATTN Michael Davenport
Code #4214, Naval Station, Mayport Fl 32228
 4. Generator's Phone ()

Truck # **353**
 Ray's Dirt
 Load # **✓**

5. Transporter 1 Company Name **Pritchett Trucking Co** 6. US EPA ID Number **N/A**

7. Transporter 2 Company Name 8. US EPA ID Number

9. Designated Facility Name and Site Address **Anderson Columbia Environmental**
Plant #7 6599 SR 218
Maxville Fl 32234 10. US EPA ID Number **AD.10.9.1.9.3.9.**

A. Transporter's Phone **1-496-2630**
 B. Transporter's Phone
 C. Facility's Phone **904-289-7135**

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. Petroleum contaminated soil	6	OT	25	CY
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above
Anderson, Columbia
ENV # 7601

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name **CHERYL L. MITCHELL** Signature *[Signature]* Month **3** Day **26** Year **92**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **Robert G. Baker** Signature *[Signature]* Month **3** Day **26** Year **92**

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

GENERATOR

TRANSPORTER

FACILITY

OLD TO:

ANDERSON COLUMBIA
 PLANT # 7
 MAXVILLE FL. 32234

CUSTOMER ANDERSON COLUMBIA EMVIA,
 UNITED STATES NAVY/ROTCC
 JOB #7601

ACCOUNT #	PMIX	TRUCK #	TONS
43		03	
PJT #: 7601			
PRD #: 6			
PIT # :		7	

0000000000

NAME: NAVY
 NAME: CONT. SOIL
 TRUCK ID: 353

GROSS : 81440 LB
 TARE : 24500 LB
 NET WT: 56940 LB

28.47 TONS

Ray's Dirt

ACCUM THIS PJT 217.74 TONS
 ACCUM THIS TRUCK 57.33 TONS

SCALEMAN

Ray Smith

Robert

LOAD INSP

RECEIVED BY

Thank You

3. Generator's Name and Mailing Address *U.S. Navy / KOICC*
ATTN: Michael Davenport
code #4214, Naval Station, Mayport Fl. 32228

Truck # 352
Roy's Dirt
Load # 9

4. Generator's Phone ()

5. Transporter 1 Company Name
Pritchett Trucking Co

6. US EPA ID Number
N/A

Board Broken on
trailer by Loader

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Anderson Columbia Environmental
Plant #2, 6599 SR 218
Maxville Fla. 32234

10. US EPA ID Number
AD 10-91939

A. Transporter's Phone
B. Transporter's Phone *1-496-2630*
C. Facility's Phone
904-289-7135

11. Waste Shipping Name and Description

12. Containers
No. Type 13. Total Quantity 14. Unit Wt/Vol

a. *Petroleum Contaminated Soil*

4.01 DT 2.5 CY

b.

.

c.

.

d.

.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above
Anderson Columbia
Env. # 7601

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name
CHRYL L MITCHELL

Signature
Cheryl Mitchell

Month Day Year
3 26 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name
Bob Baker

Signature
Bob Baker

Month Day Year
5 26 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19

GENERATOR

TRANSPORTER

FACILITY

RECEIVED
APR 5 1992
ENVIRONMENTAL

O:

PERSON COLUMBIA
ANT # 7
XVILLE FL. 32234

CUSTOMER ANDERSON COLUMBIA EMVIA.
UNITED STATES NAVY/ROTCC
JOB #7601

COUNT	PMIX	TRUCK #	TONS
3		32	
T #	7601		
D #	6		
T #			

0000000009

NAME:NAVY
NAME:CONT. SOIL
TRUCK ID:352

OSS : 73220 LB
RE : 23000 LB
T WT: 50220 LB 25.11 TONS

Ray's Dirt

CUM THIS PJT 242.85 TONS
CUM THIS TRUCK 51.26 TONS

SALEMAN _____
DAD INSP _____
Clayton _____
Bob Baker _____
RECEIVED BY

Thank You

APPENDIX B

Chain of Custody Records



**WADSWORTH/ALERT
LABORATORIES**
Sampling, testing, mobile labs

5910 Brockhurst Pkwy
Suite H
Tampa, FL 33610

(813) 621-0784
Fax (813) 623-6021

Chain of Custody Receipt

Record #

08

ABB-ES
(s) *Kusha*
A. Stodghill

Project Name / Location

Mayport

Project #:

07515-40

No. OF CONTAINERS

Parameter

Remarks

Date	Time	MATRIX	Sample Location	No. OF CONTAINERS	VOC-624/Hex	PAH-BNH,625	METALS- Pb, Ag, Cd, Cr, Ni, Hg	TRPH-TEPH/Hex	Parameter	Remarks
07-15	1000	Water	npt-1406-fb2	7	3	2	1	1		
07-15	1020	Water	npt-1406-9	7	3	2	1	1		HOT SAMPLE
07-15	1050	Water	npt-1406-7	7	3	2	1	1		May be <u>Hot!</u>
07-15	1110	Water	npt-1406-6	7	3	2	1	1		May be <u>Hot!</u>
07-15	1210	Water	npt-1406-dup3	7	3	2	1	1		<u>HOT</u>
07-15	1230	Water	MS-1	1		1				from npt-140
07-15	1230	Water	MSD-1	1		1				
07-15	1230	Water	MS-2	1		1				from npt-140
07-15	1230	Water	MSD-2	1		1				
07-15	1245	Water	npt-1406-14	7	3	2	1	1		HOT SAMPLE

Total Containers

46

Number of Coolers in Shipment

4

Bail

To:

Ilan M. Stodghill

Additional Comments:

Transfer Number	Item Number(s)	Relinquished By / Company	Accepted By / Company	Date
1			<i>[Signature]</i> WAD	7-16
2				
3				
4				
5				
6				



LABORATORIES
Sampling, testing, mobile labs

5910 Dickerson Road
Suite 11
Tampa, FL 33610

(813) 621-0734
Fax (813) 623-6021

0

ABB-ES
Client(s)
Tubco
A. Stodghill

Project Name / Location
Mayport
Project #:
07515-40

No. of CONTAINERS

Parameter

Remark

Date	Time	MATRIX	Sample Location	No. of CONTAINERS	VOC - 624/HCL	PAH - BNA, 1020	METALS - As, Cd, Cr, Pb, Hg	TRPH - TRPH/HCL	EDS	Parameter	Remark
07-14	1700	Water	rlpt-1406-17	7	3	2	1	1			
07-14	1720	Water	rlpt-1406-5	7	3	2	1	1			
07-14	1750	Water	rlpt-1406-13	7	3	2	1	1			
07-14	1750	Water	rlpt-1406-dup1	7	3	2	1	1			
07-14	1820	Water	rlpt-1406-22	7	3	2	1	1			
07-14	1855	Water	field blk.	7	3	2	1	1			
07-15	0750	Water	rlpt-1406-21	7	3	2	1	1			
07-15	0820	Water	rlpt-1406-20	7	3	2	1	1			
07-15	0835	Water	rlpt-1406-4	7	3	2	1	1			HOT SAMPLE
07-15	0850	Water	rlpt-1406-3	7	3	2	1	1			May be Extra
07-15	0950	Water	rlpt-1406-dup2	7	3	2	1	1			HOT

Total Containers **77**

Number of Coolers in Shipment **4**

Port To:
Allan H. Stodghill

Additional Comments:

Transfer Number	Item Number(s)	Relinquished By / Company	Accepted By / Company
1			<i>[Signature]</i>
2			
3			
4			
5			
6			

Original Accompanies Shipment

Project Name / Location				No. Of CONTAINERS	Parameter										Remarks	
Date	Time	MATRIX	Sample Location		VOC-1024/HCE	PAH-BNA/125	METALS-10, Cd, Cr, Pb, /	TRPH-TRPH/HCE	EDB							
Project #: 07515-40																
13	1250	water	Eg Blk.	7	3	2	1	1								ALL SAMPLES ARE GR
13	1405	water	mpt-1406-1	7	3	2	1	1								
13	1500	water	mpt-1406-2	7	3	2	1	1								
13	1525	water	mpt-1406-12	7	3	2	1	1								
13	1555	water	mpt-1406-13	7	3	2	1	1								
13	1625	water	mpt-1406-14	7	3	2	1	1								

Total Containers **42**

Number of Coolers in Shipment **3**

Bailers

Notes: 5 + 2/1/11

Comments:	Transfer Number	Item Number(s)	Relinquished By / Company	Accepted By / Company	Date
	1				
	2				
	3				
	4				
	5				
	6				

ENVIRONMENTAL				Project Name / Location	No. Of CONTAINERS	Parameter						Remarks
Date	Time	MATRIX	Sample Location	Project #:		VOC -	PAH -	METALS -	TRPH -	EDB -	BANK -	
4.11.11					DT515-4D							
4.11.11	11:22	SOIL	MPT 1426-12		1		1					RCRA METALS & AS, Cd,
4.11.11	1:28	SOIL	MPT-1457-12		1		1					RCRA METALS & AS, Cd, S
4.11.11	14:24	SOIL	MPT 1421-14		2		2					RCRA METALS & AS Cd,
4.11.11	16:34	SOIL	MPT-1421-15		1		1					RCRA METALS & AS, Cd,
4.11.11	28:03	SOIL	MPT-1426-17		1		1					RCRA METALS & AS, Cd,
4.11.11	15:00	SOIL	MPT-55-03		2	2	1	1				TRPH / RCRA METALS & AS, Cd,
4.11.11	15:00	WATER	EQUIP BLK		6	2	1	1		2		
4.11.11	-	WATER	TRIP BLK		2	2						* SAMPLE MPT-1466 should read 1406 - lab report.

Total Containers **18**

Number of Coolers in Shipment **1**

Bailers

Transfer Number	Item Number(s)	Relinquished By / Company	Accepted By / Company	Date
1				
2				
3				
4				
5				
6				

Project Name / Location

ES Mayport
A.W. STODGILL

Project #:

07515-40

No. Of CONTAINERS

Parameter

Remarks

VOC - 624/HAL
PAH - 624/HAL
METALS - 624/HAL
TRPH - 624/HAL
EDB - 624/HAL

ite	Time	MATRIX	Sample Location	No. Of CONTAINERS	VOC - 624/HAL	PAH - 624/HAL	METALS - 624/HAL	TRPH - 624/HAL	EDB - 624/HAL	Parameter	Remarks
14	0840	water	mpt-1406-8	7	3	2	1	1			
14	0910	Water	mpt-1406-19	7	3	2	1	1			
14	1020	Water	mpt-1406-11	7	3	2	1	1			Possibly Hot
14	1115	Water	mpt-1406-12	7	3	2	1	1			
14	1155	water	mpt-1406-10	7	3	2	1	1			
14	8	water	mpt-Eg blk	7	3	2	1	1			Possibly HOT
14	-	water	trip	3	3						

Total Containers **15**

Number of Coolers in Shipment **3**

Bailers

Mar. M. Stodgill

Comments:

Transfer Number	Item Number(s)	Relinquished By / Company	Accepted By / Company	Date
1				
2				
3				
4				
5				
6				

Project Name / Location		Project #:	No. Of CONTAINERS	Parameter										Remarks		
Site	Time			MATRIX	Sample Location	VOC-524D	PAH-	METALS-45 CD	TRPH-9073	EDB-	ENV-878					
492	1539	SOIL	PIPT-SS-DL	4	2	1	1									ANALYZED FOR ALSO V.H.T. / RCRA METALS
492	0830	WATER	EQUIP. BLANK-SS-DL	6	2	1	1	2								NOTE: H.C. METHOD 418.
492	0900	WATER	EQUIP. BLANK-SS-DL	6	2	1	1	2								NOTE: H.C. METHOD 418.
492	0815	SOIL	PIPT-SS-DL	4	2	1	1									ANALYZED FOR ALSO V.H.T. / RCRA METALS

Total Containers **112**

Number of Coolers in Shipment **1**

Bailers

F.M. STODGHILL

Comments:

Transfer Number	Item Number(s)	Relinquished By / Company	Accepted By / Company	Date
1				
2				
3				
4				
5				
6				

Project Name / Location		No. Of CONTAINERS	Parameter										Remarks	
Project #:			VOC-GEN/HC	PAH-GEN/HC	METALS-GEN/HC	TRPH-GEN/HC	EDB-							
ite	Time	MATRIX	Sample Location											
25	0930	H ₂ O	Eg BIK	7										
25	1030		Rpt-1406-23D	7										
25	1050		DUP. 1 Deep	7										
25	1230		Rpt-1406-24D	7										HOT MAYBE HOT
25	—	—	4 TOP BOWL	3										
25	1030	H ₂ O	Rpt-1406-23U	1										unfiltered

Total Containers	33	Number of Coolers in Shipment	2	Bailers
------------------	-----------	-------------------------------	----------	---------

Comments:	Transfer Number	Item Number(s)	Relinquished By / Company	Accepted By / Company	Date
	1	1-5			
	2				
	3				
	4				
	5				
	6				



5910 Breckenridge Parkway, Suite H
Tampa, Florida 33610
(813) 621-0784

Project Name/Number: WAS Maypat Project Manager: JRH

Requested By: ABB Date Needed: 9/16/92

Sample Kit Prepared By/Date: Earl G. E. Chan 9/14/92

Total Number of Coolers: _____ Cooler tracking #'s sent: _____

# OF SAMPLES	MATRIX	CONTAINERS PER SAMPLE	TYPE OF CONTAINER	METHOD	HOLDING TIME	PRESERVATIVE
1	H ₂ O	3	40ml vial	Co ₂ 4 ^{TRP} Blank	14 days	HCl
4	H ₂ O	2 2	1 L Amber	BUA	7 days	Φ
4	H ₂ O	3	40ml vial	Co ₂ 4	14 days	HCl
4	H ₂ O	1	1 L Amber	TRPH	28 days	HCl
5	H ₂ O	1	250ml ^{plastic}	As ₂ Cd ₂ Cr ₂ Pb	6 months	HNO ₃

Number Bailers Provided: Φ Containers of Analyte-Free Water: Φ

Temperature blanks have been provided in each shipping container. Please do not remove.

provided to seal the shipping container(s)