

N60201.AR.000122  
NS MAYPORT  
5090.3a

LETTER REGARDING THE TRANSMITTAL OF RESOURCE CONSERVATION AND  
RECOVERY ACT PERMIT TO COVER PORTIONS OF THE 1984 HAZARDOUS AND SOLID  
WASTE AMENDMENTS THAT AFFECT NS MAYPORT FL  
6/15/1993  
U S EPA REGION IV



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.  
ATLANTA, GEORGIA 30365

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JUN 15 1993

4WD-RCRA

NAVSTA Mayport Administrative Record  
Document Index Number

32228-000  
09.02.00.0004

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Commanding Officer  
Code 1823/ATTN: Cindy Burns  
South NAVFACENGCOM  
P.O. Box 190010  
North Charleston, SC 29419-9010

RE: Final 1984 Hazardous Waste Amendments Permit  
Mayport Naval Station  
EPA I.D. No. FL9 170 024 260

Dear Ms. Burns:

Enclosed is the Resource Conservation and Recovery Act (RCRA) permit to cover those portions of the 1984 Hazardous and Solid Waste Amendments (HSWA) that affect the Mayport, Florida facility. This permit and the permit issued by the State of Florida (March 2, 1988) which is in process of being reissued, together constitute the full RCRA permit.

Issuance of this permit is in accordance with 40 CFR § 124.15. Since no comments were received during the public comment period, the permit will become effective on the date specified on the signature page. An administrative review may not be requested pursuant to 40 CFR § 124.19 since no comments were received on the draft permit and no changes were made to any permit conditions.

If there are any question concerning the permit please contact Harry Desai, of my staff, at (404) 347-3433.

Sincerely yours,

*Joseph R. Franzmathes*

Joseph R. Franzmathes  
Director  
Waste Management Division

CC/enclosure: Mr. Satish Kastury, FDER, Tallahassee, FL  
Mr. Ashwin Patel, FDER, Northeast Dist, Jax  
Mr. Michael Davenport, Naval Station Mayport, FL

PWC Jaf Code 300 6/21/93

HSWA PORTION OF THE RCRA PERMIT

OWNER  
United States Navy  
Mayport Naval Station  
Mayport, Florida

OPERATOR  
Commanding Officer  
Mayport Naval Station  
Mayport, Florida

I.D. Number FL9 170 024 260

Permit Number FL9 170 024 260

Pursuant to the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act of 1976, as amended (42 USC §6901 et seq., commonly known as RCRA) and regulations promulgated thereunder by the U.S. Environmental Protection Agency (EPA) (codified and to be codified in Title 40 of the Code of Federal Regulations), a permit is issued to the United States Navy, Mayport Naval Station, Mayport (hereafter called the Permittee), who owns and operates a hazardous waste facility located in Mayport, Florida, latitude 30°23'34" North and longitude 81°25'06" West.

This Permit, in conjunction with the Hazardous Waste Management Permit issued by the State of Florida, constitutes the RCRA permit for this facility. The Permittee, pursuant to this permit, shall be required to investigate any releases of hazardous waste or hazardous constituents from any unit at the facility regardless of the time at which waste was placed in such unit, and to take appropriate corrective action for any releases. The Permit also requires the Permittee to comply with all land disposal restrictions applicable to this facility and to certify annually that on-site generation of hazardous waste is minimized to the extent practicable. In addition, the permittee is required to comply with the organic air emissions requirements.

The Permittee must comply with all terms and conditions of this permit. This permit consists of the conditions contained herein (including those in any attachments) and applicable regulations contained in 40 CFR Parts 260 through 264, 266, 268, 270, and 124 as specified in the permit and statutory requirements of RCRA, as amended by the Hazardous and Solid Waste Amendments (HSWA) of 1984, P.L. 98-616. Nothing in this permit shall preclude the Regional Administrator from reviewing and modifying the permit at any time during its term in accordance with 40 CFR §270.41 and Appendix E, as contained herein.

This Permit is based on the assumption that information and reports submitted to date, and subsequent to issuance of this permit, by the Permittee are accurate. Any inaccuracies found in this information may be grounds for termination or modification of this permit in accordance with 40 CFR §270.41, §270.42, and §270.43 and potential enforcement action. The Permittee must inform EPA of any deviation from or changes in the information in the application which would affect the Permittee's ability to comply with the applicable regulations or permit conditions.

The authority to perform all actions necessary to issue, modify, enforce, or revoke this permit has been delegated by the Regional Administrator to the Waste Management Division Director.

This Permit is effective as of June 15, 1993, and shall remain in effect until June 15, 2003, unless revoked and reissued, or terminated under 40 CFR §270.41 and §270.43 or continued in accordance with 40 CFR §270.51(a). All obligations for performance of Corrective Action are in effect until deemed complete by the Regional Administrator.

If any conditions of this permit are appealed in accordance with 40 CFR §124.19, the effective date of the conditions determined to be stayed in accordance with 40 CFR §124.16 shall be determined by final agency action as specified under 40 CFR §124.19.

June 15, 1993  
Issue Date

*James D. Rutzmanfor*  
Joseph R. Franzmathes  
Director  
Waste Management Division

1 1 30

**200 Auction**

**COLLECTABLES AUCTION**

Friday April 17 at 7am at Anglers Paradise Lodge Antique Shop, Citland Florida. Take route 17 to Crescent City lake 308 West 8 mi to route 309, turn south 1/2 mile. Contents of Antique shop including glassware, furn, lamps, rugs, advertising, cast iron, costume jewelry, plus more. 10% buyers premium on all items. Arney's Auction Team, License #A889AU183, 904-738-0050

**UP-COMING AUCTION**

If you have Real Estate to sell, call Continental Realty & Auction, 398-6455

**205 Fictitious Names**

**NOTICE UNDER - Fictitious Name Statute** Notice is Hereby Given that the undersigned, pursuant to the Florida Fictitious Name Statute, Section 865.09, Florida Statutes, will register with the Division of Corporations Tallahassee, FL, the Fictitious Name: Chamaron Cycling and Fitness Under Which: Stanley R. Sanford Enterprises, Is In Business At: 175-9 Blanding Blvd.

**NOTICE UNDER - Fictitious Name Statute** Notice is Hereby Given that the undersigned, pursuant to the Florida Fictitious Name Statute, Section 865.09, Florida Statutes, will register with the Division of Corporations Tallahassee, FL, the Fictitious Name: Sensations Linerie & Apparel, Under Which: Brett L. Harrington, Is In Business At: 25 Hawthorn Avenue., Jax., Fla 32245

**210 Estate Sales**

**ESTATE SALE - Furn., Fine goods, misc. etc.** Thurs. Sat. 8:30-5:00 Edensfield Apt. P24

**ESTATE SALE** Thursday, April 22 Richard R. Lake

**WESTSIDE - Living Estate Sale** Barry McDown, Howell Signs, Cassel & I-10 Sat April 17th 8-5pm 384-1559

**215 Legal Notices**

**NOTIFICATION OF PUBLIC SALE**

The following vessel will be sold at public auction to the highest bidder as provided in Section 328.17(4) and 328.17(7), Florida Statutes, on the 29th day of April, 1993 at 3:00 p.m. e.s.t. at Lamb's Dry Storage, 3776 Lakeshore Boulevard, Jacksonville, Florida 32210.

**OWNER**  
Mark Tingen

**VESSEL IDENTIFICATION**  
FL#: F L 8277 E H. MAKE: 210  
CHRISCRIFT.  
LENGTH: 21 FOOT  
HULL IDENTIFICATION #:  
CCBBB677M84F210.  
MODEL YEAR: 1984

**INVITATION TO BID**

United Brothers Development is seeking quota from African American and Women's Business enterprises for Hartley Road/Pine Acres Road, 16" Sewage Force Main to Burnett Park, IC-0174-93. The work consists of sewer mains, concrete and asphalt patching and grassing. Plans and

**215 Legal Notices**

**PUBLIC NOTICE**

**U.S. ENVIRONMENTAL PROTECTION AGENCY**  
Region IV  
Water Management Division  
RCRA Branch  
345 Courtland Street, NE  
Atlanta, Georgia 30365  
(404) 347-3433

**PUBLIC NOTICE NO. RCRA-FL02** DATE: 4/15/93

**NOTICE OF INTENT TO ISSUE HAZARDOUS AND SOLID WASTE AMENDMENTS PERMIT UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), AS AMENDED BY THE HAZARDOUS AND SOLID WASTE AMENDMENTS OF 1984.**

The Environmental Protection Agency requests public comment upon a Draft Permit to Naval Station Mayport for its facility at Mayport, Florida. This permit would be for the investigation of solid waste management unit releases of hazardous constituents as required under Section 3004(u) and 3004(v) of RCRA, as amended. The State of Florida has issued a permit under authority of the Hazardous Waste Management Act of 1978, Act 129, Second Special Session 1978, as amended. The federal permit, when issued, will combine with the state permit, to constitute a full RCRA permit for this facility.

The Mayport Naval Complex houses two installations: Naval Station Mayport which supports the surface fleet, and Naval Air Station Mayport which supports naval air operations. The support operations at the base, such as The Public Work Department, provide support for both the Naval Station and the Air Station. The major industrial operations conducted at Mayport involve ship, aircraft, and vehicle maintenance and repair. Areas of the facility subject to this permit are those solid waste management units (SWMVs) and areas of concern (AOCs) which have release or might release hazardous waste or constituents to the environment. The federal regulation in 40 CFR statute 124.10 requires that the Environmental Protection Agency provide for an opportunity for public comments and a public hearing prior to issuing the permit. The decision on whether there is significant public interest in holding a hearing will be based on the receipt of at least one written notice of opposition and a request for public hearing. Accordingly, the public comment period begins on April 15, 1993 and ends at midnight May 31, 1993. During the public comment period, a copy of the draft permit, and supporting documents will be available for public review at:

U.S. Environmental Protection Agency  
345 Courtland Street, N.E.  
Atlanta, Georgia  
(404) 347-3433

Office Hours: 8:00 A.M. to 5:00 P.M. (Monday-Friday)

and:  
Florida Department of Environmental Regulation  
Northeast Florida District  
Jacksonville, Florida  
(904) 448-4300

Office Hours: 8:00 A.M. to 5:00 P.M. (Monday-Friday)

Copies may be obtained by writing:  
Ms. Lena Scott  
U.S. Environmental Protection Agency  
345 Courtland Street, N.E.  
Atlanta, Georgia 30365

A nominal fee for copying and/or mailing may be charged. Arrangements for copying should be made in advance. The administrative record, which includes the material listed above as well as all other information submitted by the applicant is available at the U.S. Environmental Protection Agency at the above address during the hours listed. Persons wishing to request a public hearing or to comment upon the proposed permit conditions should submit such requests or comments in writing. All comments will be considered when the final decision to issue the permit is made. All comments and requests for a hearing should be sent to:  
Mr. G. Alan Farmer, Chief  
RCRA Branch  
Waste Management Division  
U.S. Environmental Protection Agency  
345 Courtland Street, N.E.  
Atlanta, Georgia 30365

**215 Legal Notices**

**ADVERTISEMENT FOR BIDS**

**14TH STREET ROADWAY IMPROVEMENTS**  
JASMINE STREET SIGNALS  
NASSAU COUNTY, FLORIDA

Notice is hereby given that the Board of County Commissioners of Nassau County, Florida invites sealed bids for furnishing and installing signals at the intersection of 14th Street and Jasmine Street at Fernandina Beach.

Plans and other Contract Documents are on file and may be examined at either the offices of Nassau County Engineer, 2290 South 8th Street, Fernandina Beach, Florida 32034, or GEE & JENSON Engineers-Architects-Planners, Inc., 9452 Phillips Highway, Suite 4, Jacksonville, Florida 32256.

Copies of the Plans and Specifications may be obtained at the office of Gee & Jenson. Charges for these plans are \$35.00 for each complete set; which amount will not be refunded. All requests for plans and Specifications must be accompanied by a check or money order in the full amount of the purchase.

The bid shall be accompanied by security in an amount not less than five percent (5%) of the bid amount in the form of a Bid Bond or certified check. Successful bidder shall also be required to furnish a separate Performance Bond and Payment Bond, each in the amount of one hundred percent (100%) of the bid amount.

Sealed bids should be addressed to the Board of County Commissioners, c/o T.J. Greeson, Clerk, 415 Centre Street, Room 9, County Courthouse, Fernandina Beach, FL 32034. Bids shall be received not later than 12:00 Noon, April 28, 1993. Bids will be opened, read and considered at 1:00 p.m., April 28, 1993, at the Clerk's Office. Recommendations for award will be made at 7:00 p.m., May 19, 1993 at the Commission Meeting at the County Building, Yulee, Florida. Original and two (2) copies of the sealed bids shall be provided. Bidder's envelope shall be marked: JASMINE STREET SIGNALS.

The Board of County Commissioners of Nassau County, Florida reserves the right to waive formalities in any bid; reject and or all bids in whole or in part, with or without cause, and/or to accept the bid that in its best judgement will be for the best interest of Nassau County, Florida.

Dates this 25th day of March, 1993  
JAMES TESTONE, CHAIRMAN  
BOARD OF COUNTY COMMISSIONERS  
NASSAU COUNTY, FLORIDA

ATTEST:  
T.J. Greeson, EX-OFFICIO CLERK

**INVITATION TO BID**

Hubbard Construction Company invites all DBE's to bid the following FDOT projects on May 12, 1993: State Project No. 72292-3503, Duval County, Interchange with Belford Road Work includes clearing and grubbing, maintenance of traffic, erosion control, excavation, Type B stabilization, topsoil, limerock base, asphaltic concrete, storm drainage, box culvert, concrete flatwork, guardrail, fence, grass, concrete flatwork, signalization, lighting, signage, prestress concrete, superstructure, substructure, retained earth wall, sanitary sewer, water system, jack & bore, and striping. Plans and specifications shall be available for review at our office. Please submit your proposal in written form on or before Tuesday, May 11, to Post Office Box 547217, Orlando, FL 32854-7217 (Fax No. 407-623-3865) or hand deliver to 1936 Lee Road, Winter Park, FL 32789. Direct all inquiries to the Estimating Department at 407/645-5500.

**NOTICE OF PUBLIC SALE**

Notice of Public Sale: PACCAR FINANCIAL CORP., holder of a security interest in the following truck, will foreclose the rights of the debtor and offer to sell a 1989 Kenworth Model T600, Serial Number 1XKAD9X4LJ54032 for cash to the highest bidder at Moody Truck Center, Jacksonville, FL at 9:30 AM, Tuesday, April 20, 1993. The truck is available for inspection at the above address. PACCAR FINANCIAL CORP. reserves the right to accept or reject the right to bid.

**215 Legal Notices**

**REQUEST FOR PROFESSIONAL ENGINEERING SERVICES FOR DESIGN OF PHASE II THE STORMWATER MASTER PLAN FOR CITY OF JACKSONVILLE**

The City of Jacksonville Beach for Engineering Services for (FY 93/94) of the Stormwater for the City of Jacksonville Beach packages are available at Department 11 North Third Street, Jacksonville Beach, Florida, Phone 386-341-1111. Plans shall be due no later than 4:00 p.m. and must be submitted in triplicate to the address ABOVE ADDRESS.

The Beaches public hospital School Board, will meet in regular session on April 23, 1993 at 7:30 A.M., in conference room. Any person who has a decision made by this Board on a matter discussed at this meeting and wishes to appeal such a decision, must file a written appeal with the proceeding and for such purpose need to ensure that a verbatim record of the proceeding is made. This record will be the testimony and evidence used in any appeal.

**Residential Real Estate For Sale**

**300**

**300 Avondale-Ortega**

**AVONDALE - Open House**  
Sat & Sun 12-4pm 3553 Boone Park Ave, 3/1 brick, hardwood floors, breakfast nook, flr, new kit, w/c, roof, 2 1/2 car open house Sat/Sun 12-6pm 384-3812, E-389-6719

**BY OWNER - Lrg. 2 story duplex, 2 FP, lra, rooms + gar. Apt. Reduced, 389-1549**

**BY OWNER - 3/2, Norwood & 95, fen. yd., scrn. patio, deadend, move in cond. \$32K. Call 241-9118**

**CHARMING - Brick, 2/1, CH&A, 1 car gar., cor. lot, exc. n hood, assumable mtg. \$62,500, 388-8467 eves**

**OPEN HOUSE**

1488 Challen Ave, Sat. & Sun. 12-6pm, 384-5684

**REDUCED - Fully renovated 2/2 off. hdwd flrs fol deck, gar alarm, curtains & more. Open house Sat/Sun 12-6pm 384-0000, 384-5684**

**VENETIA - FSBO, 2200 sf, 3/2, remodeled, \$102K 4259 Oristano Rd 388-3267**

**WATERFRONT - 4105 Venetia Blvd., 4BR, 3 1/2 BA, downtown view, lot 220x110, pool, dock, deep water, all batts & kit recently updated. Exc. cond. Call 389-4144**

**302 Riverside**

**BY OWNER - 1319 Sydney Pl 2 lg BR 1BA CH&A, storage fen yd \$44,500 384-8302**

**HUGE HISTORIC - Riverside home 2330 sf, Great loc. \$85,000, 573-2450 8-5**

**LOVELY - 2/1, den or 3rd br flr, fen, 1 1/2 car, bsr, \$356mo, 16000 dwn 745-0803**

**JBR 1BA - Folic, AC, new www/crt, roof, stove & refrig. Call 824-7818, 717-6272**

**305 Southside**

**ALL NEW CONDITION - Flr, foyer, 1100 sq ft 3br, many extras \$40,000 766-2851**



## FACT SHEET

FOR PERMIT UNDER 1984 RCRA AMENDMENTS PERTAINING TO  
SOLID AND HAZARDOUS WASTE MANAGEMENT AT  
UNITED STATES NAVY, MAYPORT NAVAL STATION, MAYPORT, FLORIDA  
EPA I.D. NUMBER FL9 170 024 260

This fact sheet is prepared pursuant to 40 CFR §124.8 for the draft permit number FL9 170 024 260 developed by EPA for a facility owned by the United States Navy, Mayport Naval Station, Mayport, Florida. This permit is issued in conjunction with the Hazardous Waste Permit issued by the Florida Department of Environmental Regulation. Together, these permits constitute the RCRA permit for this facility.

### I. PERMIT PROCESS

The purpose of the permitting process is to afford EPA and interested citizens the opportunity to evaluate the ability of the Permittee to comply with the applicable requirements promulgated under the Resource Conservation and Recovery Act (HSWA), as amended by the Hazardous and Solid Waste Amendments of 1984 (the 1984 HSWA Amendments). The permit conditions are set forth in one concise permit document which describes all statutory requirements of the 1984 RCRA Amendments which affect the United States Navy Operation of Mayport Naval Station and with which this facility must comply during the permit's duration.

### II. PERMIT STRUCTURE

The permit is divided into six parts: a cover sheet setting forth the basic legal authority for issuing the permit; a section on standard conditions applicable to all hazardous waste management facilities (Part I); a section on the corrective action conditions applicable to this particular facility (Part II); a section requiring waste minimization certification (Part III); a section addressing applicable land disposal restrictions (Part IV); and a section on organic air emission requirements (Part V).

### III. FACILITY DESCRIPTION

Areas of the Mayport Naval Station facility subject to this permit are those Solid Waste Management Units which may have released hazardous waste or constituents to the environment. A Resource Conservation and Recover Act (RCRA) Facility Assessment (RFA) for Naval Station (NAVSTA) Mayport was prepared by an EPA contractor and

approved by the Agency. The RFA identified fifty-six (56) Solid Waste Management Units (SWMUs) and two (2) Areas of Concern (AOC) at the NAVSTA Mayport facility. Fifteen (15) of these SWMUs were determined to require no further action at this time. Twenty-three of the remaining SWMUs and two AOCs were determined to require further investigation in the form of confirmatory sampling. The remaining eighteen SWMUs were determined to require a RCRA Facility Investigation (RFI).

Of these eighteen SWMUs, seventeen (17) had been previously identified in a Hazardous and Solid Waste Amendments (HSWA) permit issued by the USEPA on March 25, 1988. The Navy prepared a Draft Final RFI Work Plan in response to the requirements of that permit. This work plan was reviewed by the USEPA and comments were sent to the Navy on May 6, 1991. The USEPA reported in their comments that the Navy would address the thirty-nine additional SWMUs identified during the RFA conducted in September 1989 in a renewed permit; the one being issued here.

#### IV. PERMIT CONDITIONS

##### PART I

Part I of the permit sets forth standard administrative conditions applicable to all hazardous waste management facilities. Unless otherwise specified, all citations refer to the regulations as codified in Title 40 of the Code of Federal Regulations (40 CFR).

<u>Activity</u>	<u>Regulation</u> <u>(40 CFR)</u>	<u>Permit</u>	<u>Condition</u>
Permit Authority	Part 124	Cover	
Permit Duration	Part 260	Page	
Part 261			
Part 264			
Part 266			
Part 268			
Part 270			
Effect of Permit		§270.4 §270.30(g)	I.A.

<u>Activity</u>	<u>Regulation Permit (40 CFR) Condition</u>	
Permit Actions	\$270.30(f) \$270.41 \$270.42 \$270.43	I.B.
Severability	\$124.16	I.C.
Duty to Comply	\$270.30(a)	I.D.1.
Duty to Reapply	\$270.10(h) \$270.30(b)	I.D.2.
Obligation for Corrective Action	\$270.51	I.D.3.
Need to Halt or Reduce Activity	\$270.30(c)	I.D.4.
Duty to Mitigate	\$270.30(d)	I.D.5.
Proper Operation and Maintenance	\$270.30(e)	I.D.6.
Duty to Provide Information	\$264.74(a) \$270.30(h)	I.D.7.
Inspection and Entry	\$270.30(i)	I.D.8.
Monitoring and Records	\$264.74(b) \$270.30(j)	I.D.9.
Reporting Planned Changes	\$270.30(1)(1)&(2)	I.D.10.
Anticipated Noncompliance	\$270.30(1)(2)	I.D.11.
Transfer of Permit	\$264.12(c) \$270.30(1)(3) \$270.40	I.D.12.
Compliance Schedules	\$270.33	I.D.13.
Twenty-four Hour Reporting	\$270.30(1)(6)	I.D.14.
Other Noncompliance	\$270.30(1)(10)	I.D.15.

<u>Activity</u>	<u>Regulation (40 CFR)</u>	<u>Permit Condition</u>
Other Information	\$270.30(1)(11)	I.D.16.
Signatory Requirement	\$270.11 \$270.30(k)	I.E.
Confidential Information	\$270.12	I.F.
Definitions	Part 124 Part 260 Part 261 Part 264 Part 270 RCRA	I.G.

## PART II

Part II of the permit sets forth the specific conditions for this facility with which the Permittee must comply.

### PERMIT CONDITION

### JUSTIFICATION

II.A.	Applicability	40 CFR Section 264.101(a) requires that corrective action be instituted as necessary to protect human health and the environment for all releases of hazardous waste or constituents from any solid waste management units, regardless of the time that waste was placed in the unit.
II.B.	Notification and Assessment for Newly Identified SWMUs and AOCs	40 CFR Section 270.14(d) gives EPA authority to require the Permittee to submit specific information for each solid waste management unit at a facility. 40 CFR Section 270.14(d)(3) also gives EPA authority to require the Permittee to conduct and provide the results of sampling and analysis where the Regional Administrator ascertains it is necessary to determine whether a more complete investigation is necessary.
II.C.	Notification Requirements for Newly Discovered Releases at SWMUs	

- D.
Confirmatory Sampling
In order to decide whether corrective action under 40 CFR Section 264.101 is required, it is necessary to characterize the nature and extent of releases, identify exposure pathways, and evaluate effects on human health and the environment.
- II.E.
RCRA Facility Investigation (RFI)
In order to decide whether corrective action under 40 CFR Section 264.101 is required, it is necessary to characterize the nature and extent of releases, identify exposure pathways, and evaluate effects on human health and the environment.
- II.F.
Interim Measures
Interim measures may be necessary to protect human health and the environment. Therefore, justification for this condition is identical to those stated for Condition II.E.
- II.G.
Corrective Measures Study
40 CFR Section 264.101(a) requires corrective action as necessary to protect human health and the environment for all releases of hazardous waste or constituents from any solid waste management unit at a treatment, storage, or disposal facility seeking a permit under Subtitle C, regardless of the time at which waste was placed in such unit.
- II.H.
Remedy Approval and Permit Modification
40 CFR Section 264.140(c) exempts states and the federal government from the financial assurance requirements of 40 CFR Section 264.101(c). 40 CFR Section 270.41 and 40 CFR Section 270.42 provide for modification or permits. 40 CFR Section 264.101(b) requires the permit to contain schedules of compliance for corrective action which cannot be completed prior to issuance. 40 CFR Section 270.33(a) requires progress reports if the time to complete any interim activity exceeds one year.
- II.I.
Modification of Schedule of Compliance
40 CFR Section 264.140(c) exempts states and the federal government from the financial assurance requirements of 40 CFR Section 264.101(c). 40 CFR Section 270.41 and 40 CFR Section 270.42 provide for modification or permits. 40 CFR Section 264.101(b) requires the permit to contain schedules of compliance for corrective action which cannot be completed prior to issuance. 40 CFR Section 270.33(a) requires progress reports if the time to complete any interim activity exceeds one year.
- II.J.
Imminent Hazard and Reporting Requirements
40 CFR Section 270.30(h) requires the Permittee to furnish, within a reasonable time, any relevant information which the Regional Administrator may request to determine whether cause exists for modifying the permit, or to determine compliance with the permit.
- II.K.
Plan and Report
40 CFR Sections 270.11 and 270.30(k) require that all applications, reports, and/or information submitted to the Director be signed and certified.

### PART III

Part III of this permit sets forth requirement in accordance with 40 CFR §264.73(b) (9) for generators to certify annually their waste minimization efforts.

### PART IV

Part IV of this permit outlines land disposal restrictions in accordance with 40 CFR Part 268.

### PART V

Part V of this permit requires compliance with the air emissions requirements of 40 CFR Part 264, Subpart AA and BB.

## V. VARIANCES

Section 3004(u) of RCRA does not provide for variances.

## VI. PROCEDURES

The issuance of a hazardous waste permit to Mayport Naval Station, Mayport, Florida, will be coordinated by both the EPA and the FLORIDA FDER. The FDER permit will cover those portions of RCRA for which it has final authorization to administer, and the Federal permit addresses the Hazardous and Solid Waste Amendments of 1984. Together, these permits constitute the RCRA permit for this facility. Since the FDER permit is written to include those conditions contained in the Federal permit, FDER may assume administration of the permit upon receiving authorization for the appropriate sections of the Amendments.

The regulations under 40 CFR §124.10 require that a forty-five (45) day comment period be instituted for each draft permit under RCRA. The comment period will begin on \_\_\_\_\_, 19\_\_\_\_, which is the date of publication of the public notice in major local newspaper of general circulation, and will end on \_\_\_\_\_, 19\_\_\_\_. The public notice will also be broadcast over local radio stations.

Persons wishing to comment upon the permit application or the proposed permit conditions should submit such comments in writing. Copies of comments regarding the federal RCRA permit should be sent to:

Environmental Protection Agency  
ATTENTION: Mr. G. Alan Farmer  
345 Courtland Street, N.E.  
Atlanta, Georgia 30365.

All comments must be received no later than midnight, \_\_\_\_\_,  
19\_\_.

When EPA makes a final permit decision to either issue, deny or modify the permit, notice will be given to the applicant and each person who has submitted written comments or requested notice of the final decision. The final permit decision shall become effective thirty (30) days after the service of notice of the decision unless a later date is specified within the notice or review is requested under 40 CFR §124.19. If no comments requested a change in the draft permit, the final permit shall become effective immediately upon issuance.

Contact Person:

EPA: Mr. G. Alan Farmer  
Chief, RCRA Branch  
Waste Management Division  
345 Courtland Street, N.E.  
Atlanta, Georgia 30365

States: Mr. Ernest E. Frey  
Florida Department of Environmental  
Regulation  
Northeastern District  
7825 Baymeadows Way, Suite B-200  
Jacksonville, Florida 32256

# PRELIMINARY DRAFT

## HSWA PORTION OF THE RCRA PERMIT

OPERATOR  
United States Navy Commanding Officer  
Mayport Naval Station Mayport Naval Station  
Mayport, Florida Mayport, Florida

I.D. Number FL9 170 024 260

Permit Number FL9 170 024 260

Pursuant to the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act of 1976, as amended (42 USC §6901 et seq., commonly known as RCRA) and regulations promulgated thereunder by the U.S. Environmental Protection Agency (EPA) (codified and to be codified in Title 40 of the Code of Federal Regulations), a permit is issued to the United States Navy, Mayport Naval Station, Mayport (hereafter called the Permittee), who owns and operates a hazardous waste facility located in Mayport, Florida, latitude 30°23'34" North and longitude 81°25'06" West.

This Permit, in conjunction with the Hazardous Waste Management Permit issued by the State of Florida, constitutes the RCRA permit for this facility. The Permittee, pursuant to this permit, shall be required to investigate any releases of hazardous waste or hazardous constituents from any unit at the facility regardless of the time at which waste was placed in such unit, and to take appropriate corrective action for any releases. The Permit also requires the Permittee to comply with all land disposal restrictions applicable to this facility and to certify annually that on-site generation of hazardous waste is minimized to the extent practicable. In addition, the permittee is required to comply with the organic air emissions requirements.

The Permittee must comply with all terms and conditions of this permit. This permit consists of the conditions contained herein (including those in any attachments) and applicable regulations contained in 40 CFR Parts 260 through 264, 266, 268, 270, and 124 as specified in the permit and statutory requirements of RCRA, as amended by the Hazardous and Solid Waste Amendments (HSWA) of 1984, P.L. 98-616. Nothing in this permit shall preclude the Regional Administrator from reviewing and modifying the permit at any time during its term in accordance with 40 CFR §270.41 and Appendix E, as contained herein.

This Permit is based on the assumption that information and reports submitted to date, and subsequent to issuance of this permit, by the Permittee are accurate. Any inaccuracies found in this information may be grounds for termination or modification of this permit in accordance with 40 CFR §270.41, §270.42, and §270.43 and potential enforcement action. The Permittee must inform EPA of any deviation from or changes in the information in the application which would affect the Permittee's ability to comply with the applicable regulations or permit conditions.

The authority to perform all actions necessary to issue, modify, enforce, or revoke this permit has been delegated by the Regional Administrator to the Waste Management Division Director.

This Permit is effective as of \_\_\_\_\_, and shall remain in effect until \_\_\_\_\_, unless revoked and reissued, or terminated under 40 CFR §270.41 and §270.43 or continued in accordance with 40 CFR §270.51(a). All obligations for performance of Corrective Action are in effect until deemed complete by the Regional Administrator.

If any conditions of this permit are appealed in accordance with 40 CFR §124.19, the effective date of the conditions determined to be stayed in accordance with 40 CFR §124.16 shall be determined by final agency action as specified under 40 CFR §124.19.

Issue Date

\_\_\_\_\_  
Joseph R. Franzmathes  
Director  
Waste Management Division

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## PART I - STANDARD CONDITIONS

### I.A.EFFECT OF PERMIT

Compliance with the terms of this Permit constitutes compliance, for purposes of enforcement with Subtitle C of RCRA, except for those requirements not included in the Permit which become effective by statute, or which are promulgated under 40 CFR Part 268 restricting placement of hazardous waste in or on the land. Issuance of this permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of state or local law or regulations. Compliance with the terms of this permit does not constitute a defense to any order issued or any action brought under Section 3008(a), 3008(h), 3004(v), 3008(c), 3007, 3013 or Section 7003 of RCRA, Sections 104, 106(a), 106(e), or 107 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (42 U.S.C. 9601 et seq., commonly known as CERCLA), or any other law providing for protection of public health or the environment.

### I.B.PERMIT ACTIONS

This permit may be modified, revoked and reissued, or terminated for cause as specified in 40 CFR §§270.41, 270.42, and 270.43 except for the schedule of compliance which shall be modified in accordance with Condition II.I. of this permit. The filing of a request for a permit modification, revocation and reissuance, or termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittee does not stay the applicability or enforceability of any permit condition.

### I.C.SEVERABILITY

The provisions of this permit are severable, as specified in 40 CFR §124.16, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

## I.D.DUTIES AND REQUIREMENTS

### I.D.1.Duty to Comply

The Permittee shall comply with all conditions of this permit, except to the extent and for the duration such noncompliance is authorized by an emergency permit. Any permit noncompliance, other than noncompliance authorized by an emergency permit, constitutes a violation of RCRA and is grounds for enforcement action, permit termination, revocation and reissuance, modification, or denial of a permit renewal application.

### I.D.2.Duty to Reapply

If the Permittee will continue an activity allowed or required by this permit after the expiration date of this permit, the Permittee shall submit a complete application for a new permit at least one hundred eighty (180) calendar days before this permit expires, unless permission for a later date has been granted by the Regional Administrator.

### I.D.3.Obligation for Corrective Action

Owners and operators of hazardous waste management units must have permits during the active life (including the closure period) of the unit, and for any period necessary to comply with the corrective action requirements (HSWA Section) of this permit.

### I.D.4.Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

### I.D.5.Duty to Mitigate

In the event of noncompliance with the permit, the Permittee shall take all reasonable steps to minimize releases of hazardous waste or hazardous constituents to the environment, and shall carry out such measures as are reasonable to prevent significant adverse effects on human health or the environment.

### I.D.6. Proper Operation and Maintenance

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of

this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.

#### I.D.7. Duty to Provide Information

The Permittee shall furnish to the Regional Administrator, within a reasonable time, any relevant information which the Regional Administrator may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Regional Administrator, upon request, copies of records required to be kept by this permit.

#### I.D.8. Inspection and Entry

The Permittee shall allow the Regional Administrator, or an authorized representative, upon the presentation of credentials and other documents as may be required by law to:

- I.D.8.a. Enter at reasonable times upon the Permittee's premises where a regulated activity is located or conducted, or where records must be kept under the conditions of this permit;
- I.D.8.b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- I.D.8.c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated, or required under this permit; and
- I.D.8.d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by RCRA, any substances or parameters at any location.

#### I.D.9. Monitoring and Records

- I.D.9.a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. The method used to obtain a representative sample to be analyzed must be the appropriate method from Appendix I of 40 CFR Part 261 or an equivalent method approved by the Regional Administrator. Laboratory methods must be

those specified in the most recent edition of Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, SW-846, or an equivalent method approved by the Regional Administrator.

I.D.9.b.

The Permittee shall retain at the facility, or other appropriate location as provided for under 40 CFR Part 264, records of all monitoring information required under the terms of this permit, including all calibration and maintenance records, records of all data used to prepare documents required by this permit, copies of all reports and records required by this permit, the certification required by 40 CFR §264.73(b)(9), and records of all data used to complete the application for this permit for a period of at least three years from the date of the sample, measurement, report, certification or application, or until corrective action is completed, whichever date is later. As a generator of hazardous waste, the Permittee shall retain on-site a copy of all notices, certifications, demonstrations, waste analysis data, and other documentation produced pursuant to 40 CFR Part 268 for at least five years from the date that the waste which is the subject of such documentation was last sent to on-site or off-site treatment, storage, or disposal, or until corrective action is completed, whichever date is later. At a facility permitted to operate an incinerator, the Permittee shall retain on-site all records for a period of five years. These periods may be extended by request of the Regional Administrator at any time and are automatically extended during the course of any unresolved enforcement action regarding this facility.

I.D.9.c. Records of monitoring information shall specify:

- i. The dates, exact place, and times of sampling, or measurements;
- ii. The individuals who performed the sampling or measurements;
- iii. The dates analyses were performed;
- iv. The individuals who performed the analyses;
- v. The analytical techniques or methods used; and
- vi. The results of such analyses.

I.D.10. Reporting Planned Changes

The Permittee shall give notice to the Regional Administrator as soon as possible of any planned physical alterations or additions to the permitted facility as defined in 40 CFR §270.2. This would apply to all contiguous land, structures, other appurtenances and improvements on the land, used for the treatment, storage or disposal of hazardous waste.

I.D.11.            Anticipated Noncompliance

The Permittee shall give advance notice to the Regional Administrator of any planned changes in the permitted facility or activity which may result in noncompliance with the requirements of this permit.

I.D.12.            Transfer of Permits

This permit may be transferred to a new owner or operator only after notice to the Regional Administrator and only if it is modified or revoked and reissued pursuant to 40 CFR §270.40(b) or §270.41(b)(2) to identify the new permittee and incorporate such other requirements as may be necessary under the appropriate Act. Before transferring ownership or operation of the facility during its operating life, or of a disposal facility during the post-closure care period, the Permittee shall notify the new owner or operator in writing of the requirements of 40 CFR Parts 264 and 270, HSWA and this permit.

I.D.13. Compliance Schedules

Written notification of compliance or noncompliance with any item identified in the compliance schedule of this permit shall be submitted according to each schedule date. If the Permittee does not notify the Regional Administrator within fourteen (14) calendar days of its compliance or noncompliance with the schedule, the Permittee shall be subject to an enforcement action. Submittal of a required item according to the schedule constitutes notification of compliance.

I.D.14. Twenty-four Hour Reporting

I.D.14.a. The Permittee shall report any noncompliance which may endanger human health or the environment. Any such information shall be reported orally to the Regional Administrator within 24 hours from the time the Permittee become aware of the circumstances. This report shall include:

- i. Information concerning the release of any hazardous waste or hazardous constituents which may endanger public drinking water supplies.
- ii. Information concerning the release or discharge of any hazardous waste or hazardous constituents, or of a fire or explosion at the facility, which could threaten the environment or human health outside the facility.

I.D.14.b. The description of the occurrence and its cause shall include:

- i. Name, address, and telephone number of the owner or operator;
- ii. Name, address, and telephone number of the facility;
- iii. Date, time, and type of incident;
- iv. Name and quantity of materials involved;
- v. The extent of injuries, if any;
- vi. An assessment of actual or potential hazard to the environment and human health outside the facility; and
- vii. Estimated quantity and disposition of recovered material that resulted from the incident.

I.D.14.c. A written report shall also be provided to the Regional Administrator within fifteen (15) calendar days of the time the Permittee become aware of the

circumstances. The written report shall contain the information specified under Conditions I.D.14.a. and b.; a description of the noncompliance and its cause; the periods of noncompliance (including exact dates and times); whether the noncompliance has been corrected and if not, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

I.D.15. Other Noncompliance

The Permittee shall report all other instances of noncompliance not otherwise required to be reported above, at the time written reports as required by this permit are submitted. The reports shall contain the information listed in Condition I.D.14. as appropriate.

I.D.16. Other Information

Whenever the Permittee become aware that it failed to submit any relevant facts or submitted incorrect information in any document(s) submitted to the Regional Administrator, the Permittee shall promptly submit such facts or information.

I.E. SIGNATORY REQUIREMENT

All applications, reports, or information submitted to the Regional Administrator shall be signed and certified in accordance with 40 CFR §270.11.

I.F. CONFIDENTIAL INFORMATION

The Permittee may claim confidential any information required to be submitted by this permit in accordance with 40 CFR §270.12.

I.G. DEFINITIONS

For purposes of this permit, terms used herein shall have the same meaning as those in RCRA and 40 CFR Parts 124, 260, 261, 264, and 270, unless this permit specifically provides otherwise. Where terms are not defined in the regulation, the permit, or EPA guidelines or publications, the meaning associated with such terms shall be defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term.

- I.G.1. The term "solid waste" means any garbage, refuse, sludge from a waste treatment plant, water supply treatment plant, or air pollution control facility, and other discarded material, including solid,

## I.G. DEFINITIONS

For purposes of this permit, terms used herein shall have the same meaning as those in RCRA and 40 CFR Parts 124, 260, 261, 264, and 270, unless this permit specifically provides otherwise. Where terms are not defined in the regulation, the permit, or EPA guidelines or publications, the meaning associated with such terms shall be defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term.

- I.G.1. The term "solid waste" means any garbage, refuse, sludge from a waste treatment plant, water supply treatment plant, or air pollution control facility, and other discarded material, including solid, liquid, semisolid, or contained gaseous material resulting from industrial, commercial, mining, and agricultural operations, and from community activities, but does not include solid or dissolved material in domestic sewage, or solid or dissolved materials in irrigation return flows or industrial discharges which are point sources subject to permits under section 402 of the Federal Water Pollution Control Act, as amended (86 Stat. 880), or source, special nuclear, or by-product material as defined by the Atomic Energy Act of 1954, as amended (68 Stat. 923).
- I.G.2. A "hazardous constituent" for purposes of this permit are those substances listed in 40 CFR Part 261 Appendix VIII.
- I.G.3. A "solid waste management unit" (SWMU) for the purposes of this permit includes any unit which has been used for the treatment, storage, or disposal of solid waste at any time, irrespective of whether the unit is or ever was intended for the management of solid waste. RCRA regulated hazardous waste management units are also solid waste management units. SWMUs include areas that have been contaminated by routine and systematic releases of hazardous waste or hazardous constituents, excluding one-time accidental spills that are immediately remediated and cannot be linked to solid waste management activities (e.g. product or process spills).

I.G.4.

A "unit" for the purposes of this permit includes, but is not limited to, any landfill, surface impoundment, waste pile, land treatment unit, incinerator, injection well, tank, container storage area, septic tank, drain field, wastewater treatment unit, elementary neutralization unit, transfer station, or recycling unit.

I.G.5.

A "release" for purposes of this permit includes any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment of any hazardous waste or hazardous constituents.

I.G.6.

"Corrective measures" for purposes of this permit, include all corrective action necessary to protect human health and the environment for all releases of hazardous waste or hazardous constituents from any solid waste management unit at the facility, regardless of the time at which waste was placed in the unit, as required under 40 CFR §264.101. Corrective measures may address releases to air, soils, surface water or groundwater.

I.G.7.

"Area of concern" (AOC) for purposes of this permit includes any area having a probable release of a hazardous waste or hazardous constituent which is not from a solid waste management unit and is determined by the Regional Administrator to pose a current or potential threat to human health or the environment. Such areas of concern may require investigations and remedial action as required under Section 3005(c)(3) of the Resource Conservation and Recovery Act and 40 CFR §270.32(b)(2) in order to ensure adequate protection of human health and the environment.

I.G.8.

"Facility" for purposes of this permit includes any contiguous property and structures, other appurtenances, and improvements on the property under the control of the owner or operator seeking a permit under Subtitle C of RCRA.

I.G.10.            "Land Disposal" for purposes of this permit and 40 CFR Part 268 means placement in or on the land and includes, but is not limited to, placement in a landfill, surface impoundment, waste pile, injection well, land treatment facility, salt dome formation, underground mine or cave, or concrete vault or bunker intended for disposal purposes.

I.G.11.            "Corrective Action Management Plan" for the purposes of this permit is an enforceable schedule of compliance approved by the Regional Administrator for the submittal of workplans and reports which includes at a minimum Additional Information, Confirmatory Sampling, RCRA Facility Investigation and Corrective Measures Study workplans and reports. The CAMP also provides a prioritization of all SWMUs and AOCs listed in Appendix A as requiring corrective action pursuant to this permit.

PART II - CORRECTIVE ACTION

II.A. APPLICABILITY

The Conditions of this Part apply to:

- II.A.1. The solid waste management units (SWMUs) identified in Appendix A-3, which require further investigation.
- II.A.2. The SWMUs and AOCs identified in Appendix A-2, which require no further investigation at this time.
- II.A.3. The SWMUs and AOCs identified in Appendix A-4, which require confirmatory sampling.
- II.A.4. Any additional SWMUs or AOCs discovered during the course of groundwater monitoring, field investigations, environmental audits, or other means.

II.B. NOTIFICATION AND ASSESSMENT REQUIREMENTS FOR NEWLY IDENTIFIED SWMUs AND AOCs

- II.B.1. The Permittee shall notify the Regional Administrator in writing, within fifteen (15) calendar days of discovery, of any additional SWMUs as discovered under Condition II.A.4.
- II.B.2. The Permittee shall notify the Regional Administrator in writing, within fifteen (15) calendar days of discovery, of any additional AOCs as discovered under Condition II.A.4. The notification shall include, at a minimum, the location of the AOC and all available information pertaining to the nature of the release (e.g., media affected, hazardous constituents released, magnitude of release, etc.). If the Regional Administrator determines that further investigation of an AOC is required, the permit will be modified in accordance with 40 CFR §270.41.
- II.B.3. The Permittee shall prepare and submit to the Regional Administrator, within ninety (90) calendar days of notification, a SWMU Assessment Report (SAR) for each

SWMU identified under Condition II.B.1. and II.C.1. At a minimum, the SAR shall provide the following information:

- a. Location of unit(s) on a topographic map of appropriate scale such as required under 40 CFR §270.14(b)(19).
- b. Designation of type and function of unit(s).
- c. General dimensions, capacities and structural description of unit(s). (Supply any available plans/drawings.)
- d. Dates that the unit(s) was operated.
- e. Specification of all wastes that have been managed at/in the unit(s) to the extent available. Include any available data on 40 CFR Part 261 Appendix VIII constituents in the wastes.
- f. All available information pertaining to any release of hazardous waste or hazardous constituents from such unit(s) (to include groundwater data, soil analyses, air, and/or surface water data).

II.B.4. Based on the results of the SAR, the Regional Administrator shall determine the need for further investigations at the SWMUs covered in the SAR. If the Regional Administrator determines that such investigations are needed, the Permittee shall be required to prepare a plan for such investigations as outlined in Condition II.E.1.b.

II.C. NOTIFICATION REQUIREMENTS FOR NEWLY DISCOVERED RELEASES AT PREVIOUSLY IDENTIFIED SWMUs [or AOCs]

II.C.1. The Permittee shall notify the Regional Administrator in writing of any newly discovered release(s) of hazardous waste or hazardous constituents discovered during the course of groundwater monitoring, field investigations, environmental audits, or other means, within fifteen (15) calendar days of discovery. Such newly discovered releases may be from SWMUs or AOCs identified in Condition II.A.2 or SWMUs identified in Condition II.A.4 for which further investigation under Condition II.B.4 was not required.

- II.C.2. If the Regional Administrator determines that further investigation of the SWMUs or AOCs is needed, the Permittee shall be required to prepare a plan for such investigations as outlined in Conditions II.D.1 or II.E.1.b as indicated by the Regional Administrator.
- II.D. Confirmatory Sampling (CS)
- II.D.1. The Permittee shall prepare and submit to the Regional Administrator, in accordance with the timeframes specified in the Corrective Action Management Plan or no later than ninety (90) calendar days of the effective date of this permit, a Confirmatory Sampling (CS) Workplan to determine any releases from SWMUs and AOCs identified in Condition II.A.3 and Appendix A-4. The CS Workplan shall include schedules of implementation and completion of specific actions necessary to determine a release. It should also address applicable requirements and affected media.
- II.D.2. The CS Workplan must be approved by the Regional Administrator, in writing, prior to implementation. The Regional Administrator shall specify the start date of the CS Workplan schedule in the letter approving the CS Workplan. If the Regional Administrator disapproves the CS Workplan, the Regional Administrator shall either: (1) notify the Permittee in writing of the CS Workplan's deficiencies and specify a due date for submission of a revised CS Workplan; or (2) revise the CS Workplan and notify the Permittee of the revisions.
- II.D.3. The Permittee shall implement the confirmatory sampling in accordance with the approved CS Workplan.
- II.D.4. The Permittee shall prepare and submit to the Regional Administrator, in accordance with the Corrective Action Management Plan or no later than the date specified in the approved CS Workplan, a Confirmatory Sampling (CS) Report identifying those SWMUs and AOCs listed in Condition II.A.3 that have released hazardous waste or hazardous constituents into the environment. The CS Report shall include all data, including raw data, and a summary and analysis of the data, that supports the above determination.
- II.D.5. Based on the results of the CS Report, the Regional Administrator shall determine the need for further

investigations at the SWMUs and AOCs covered in the CS Report. If the Regional Administrator determines that such investigations are needed, the Permittee shall be required to prepare a plan for such investigations as outlined in Condition II.E.1.b. The Regional Administrator will notify the Permittee of any no further action decision.

II.E. RCRA FACILITY INVESTIGATION (RFI)

II.E.1. RFI Workplan(s)

II.E.1.a. The Permittee shall prepare and submit to the Regional Administrator, in accordance with the timeframes specified in the Corrective Action Management Plan or no later than one hundred twenty (120) calendar days of the effective date of this permit, a RCRA Facility Investigation (RFI) Workplan(s) for those units identified in Condition II.A.1. This Workplan shall be developed to meet the requirements of Condition II.E.1.c.

II.E.1.b. The Permittee shall prepare and submit to the Regional Administrator, within ninety (90) calendar days of notification by the Regional Administrator, an RFI Workplan for those units identified under Condition II.B.4, Condition II.C.2, or Condition II.D.5. The RFI Workplan(s) shall be developed to meet the requirements of Condition II.E.1.c.

II.E.1.c. The RFI Workplan(s) shall meet the requirements of Appendix B. The RFI Workplan(s) shall include schedules of implementation and completion of specific actions necessary to determine the nature and extent of releases and the potential pathways of contaminant releases to the air, land, surface water, and groundwater. The Permittee must provide sufficient justification and/or documentation that a release is not probable if a unit or a media/pathway associated with a unit (groundwater, surface water, soil, subsurface gas, or air) is not included in the RFI Workplan(s). Such deletions of a unit, media or pathway from the RFI(s) are subject to the approval of the Regional Administrator. The Permittee shall provide sufficient written justification for any omissions or deviations from the minimum requirements of Appendix B. Such omissions or deviations are subject to the approval of the Regional Administrator. In addition, the scope of the RFI Workplan(s) shall include all

investigations necessary to ensure compliance with 40 CFR §264.101(c).

II.E.1.d. The RFI Workplan(s) must be approved by the Regional Administrator, in writing, prior to implementation. The Regional Administrator shall specify the start date of the RFI Workplan schedule in the letter approving the RFI Workplan(s). If the Regional Administrator disapproves the RFI Workplan(s), the Regional Administrator shall either: (1) notify the Permittee in writing of the RFI Workplan's deficiencies and specify a due date for submission of a revised RFI Workplan; or (2) revise the RFI Workplan and notify the Permittee of the revisions and the start date of the schedule within the approved RFI Workplan.

II.E.2. RFI Implementation

The Permittee shall implement the RFI(s) in accordance with the Corrective Action Management Plan or as specified in the approved RFI Workplan(s), and Appendix B. The Permittee shall notify the Regional Administrator within twenty (20) days of any sampling activity.

II.E.3. RFI Reports

II.E.3.a. If the time required to conduct the RFI(s) is greater than one hundred eighty (180) calendar days, the Permittee shall provide the Regional Administrator with quarterly RFI Progress Reports (90 day intervals) beginning ninety (90) calendar days from the start date specified by the Regional Administrator in the RFI Workplan approval letter. The Progress Reports shall contain the following information at a minimum:

- i. A description of the portion of the RFI completed;
- ii. Summaries of findings;
- iii. Summaries of all deviations from the approved RFI Workplan during the reporting period;
- iv. Summaries of all problems or potential problems encountered during the reporting period;
- v. Projected work for the next reporting period; and

vi. Copies of daily reports, inspection reports, laboratory/monitoring data, etc.

II.E.3.b. The Permittee shall prepare and submit to the Regional Administrator Draft and Final RCRA Facility Investigation Report(s) for the investigations conducted pursuant to the RFI Workplan(s) submitted under Condition II.E.1. The Draft RFI Report(s) shall be submitted to Regional Administrator for review in accordance with the Corrective Action Management Plan or as specified in the schedule in the approved RFI Workplan(s). The Final RFI Report(s) shall be submitted to the Regional Administrator within sixty (60) calendar days of receipt of Regional Administrator comments on the Draft RFI Report or as otherwise specified by the Regional Administrator. The RFI Report(s) shall include an analysis and summary of all required investigations of SWMUs and AOCs and their results. The summary shall describe the type and extent of contamination at the facility, including sources and migration pathways, and a description of actual or potential receptors. The RFI Report(s) shall also describe the extent of contamination (qualitative/quantitative) in relation to background levels indicative of the area. The objective of this task shall be to ensure that the investigation data are sufficient in quality (e.g., quality assurance procedures have been followed) and quantity to describe the nature and extent of contamination, potential threat to human health and/or the environment, and to support a Corrective Measures Study, if necessary.

II.E.3.c. The Regional Administrator will review the Final RFI Report(s) and notify the Permittee of the need for further investigative action and/or the need for a Corrective Measures Study to meet the requirements of II.G and 40 CFR §264.101. The Regional Administrator will notify the Permittee of any no further action decision.

II:F. INTERIM MEASURES (IM)

II.F.1. IM Workplan

II.F.1.a. Upon notification by the Regional Administrator, the Permittee shall prepare and submit an Interim Measures (IM) Workplan for any SWMU or AOC which the Regional Administrator determines poses a current or potential

threat to human health or the environment. The IM Workplan shall be submitted within ninety (90) calendar days of such notification or as otherwise specified by the Regional Administrator and shall include the elements listed in II.F.1.b. Such interim measures may be conducted concurrently with investigations required under the terms of this permit.

II.F.1.b. The IM Workplan shall ensure that the interim measures are designed to mitigate any current or potential threat(s) to human health or the environment and is consistent with and integrated into any long-term solution at the facility. The IM Workplan shall include: the interim measures objectives, procedures for implementation (including any designs, plans, or specifications), and schedules for implementation.

II.F.1.c. The IM Workplan must be approved by the Regional Administrator, in writing, prior to implementation. The Regional Administrator shall specify the start date of the IM Workplan schedule in the letter approving the IM Workplan. If the Regional Administrator disapproves the IM Workplan, the Regional Administrator shall either: (1) notify the Permittee in writing of the IM Workplan's deficiencies and specify a due date for submission of a revised IM Workplan; or (2) revise the IM Workplan and notify the Permittee of the revisions and the start date of the schedule within the approved IM Workplan.

II.F.2. IM Implementation

II.F.2.a. The Permittee shall implement the interim measures in accordance with the Corrective Action Management Plan or as specified in the approved IM Workplan.

II.F.2.b. The Permittee shall give notice to the Regional Administrator as soon as possible of any planned changes, reductions or additions to the IM Workplan.

II.F.2.c. Final approval of corrective action required under 40 CFR §264.101 which is achieved through interim measures shall be in accordance with 40 CFR §270.41 and Condition II.H as a permit modification.

II.F.3. IM Reports

II.F.3.a. If the time required for completion of interim measures is greater than one year, the Permittee shall provide the Regional Administrator with semiannual progress reports (180 day intervals) beginning 180 calendar days from the start date specified by the Regional Administrator in the Workplan approval letter. The Progress Reports shall contain the following information at a minimum:

- i. A description of the portion of the interim measures completed;
- ii. Summaries of all deviations from the IM Workplan during the reporting period;
- iii. Summaries of all problems or potential problems encountered during the reporting period;
- iv. Projected work for the next reporting period; and
- v. Copies of laboratory/monitoring data.

II.F.3.b. The Permittee shall prepare and submit to the Regional Administrator, in accordance with timeframes specified in the Corrective Action Management Plan or no later than the date specified in the approved Interim Measures Workplan, an Interim Measures (IM) Report. The IM Report shall contain the following information at a minimum:

- i. A description of interim measures implemented;
- ii. Summaries of results;
- iii. Summaries of all problems encountered;
- iv. Summaries of accomplishments and/or effectiveness of interim measures; and
- v. Copies of all relevant laboratory/monitoring data, etc., in accordance with Condition I.D.9.

II.G CORRECTIVE MEASURES STUDY

II.G.1. Corrective Measures Study (CMS) Workplan

II.G.1.a. The Permittee shall prepare and submit a CMS Workplan for those units requiring a CMS in accordance with the time frames specified in the Corrective Action Management Plan or no later than ninety (90) calendar days of notification by the Regional Administrator that a CMS is required. This CMS Workplan shall be developed to meet the requirements of Condition II.G.1.b.

II.G.1.b. The CMS Workplan shall meet the requirements of Appendix C. The CMS Workplan shall include schedules of implementation and completion of specific actions necessary to complete a CMS. The Permittee must provide sufficient justification and/or documentation for any unit deleted from the CMS Workplan. Such deletion of a unit is subject to the approval of the Regional Administrator. The CMS shall be conducted in accordance with the approved CMS Workplan. The Permittee shall provide sufficient written justification for any omissions or deviations from the minimum requirements of Appendix C. Such omissions or deviations are subject to the approval of the Regional Administrator. The scope of the CMS Workplan shall include all investigations necessary to ensure compliance with 3005(c)(3), 40 CFR §264.101, and §270.32(b)(2). The Permittee shall implement corrective actions beyond the facility boundary, where necessary to protect human health and the environment, unless the Permittee demonstrates to the satisfaction of the Regional Administrator that, despite the Permittee's best efforts, as determined by the Regional Administrator, the Permittee was unable to obtain the necessary permission to undertake such actions. The Permittee is not relieved of all responsibility to clean up a release that has migrated beyond the facility boundary where off-site access is denied. On-site measures to address such releases will be determined on a case-by-case basis. Assurances of financial responsibility for completion of such off-site corrective action will be required.

II.G.1.c. The Regional Administrator shall either approve or disapprove, in writing, the CMS Workplan. If the Regional Administrator disapproves the CMS Workplan, the

Regional Administrator shall either: (1) notify the Permittee in writing of the CMS Workplan's deficiencies and specify a due date for submittal of a revised CMS Workplan, or (2) revise the CMS Workplan and notify the Permittee of the revisions. This modified CMS Workplan becomes the approved CMS Workplan.

II.G.2. Corrective Measures Study Implementation

The Permittee shall begin to implement the Corrective Measures Study according to the schedules specified in the approved CMS Workplan, in accordance with the time frames specified in the Corrective Action Management Plan, as specified by the Regional Administrator, or no later than fifteen (15) calendar days after the Permittee have received written approval from the Regional Administrator for the CMS Workplan. Pursuant to Permit Condition II.G.1.b., the CMS shall be conducted in accordance with the approved CMS Workplan.

II.G.3. CMS Report

II.G.3.a. The Permittee shall prepare and submit to the Regional Administrator a draft and final CMS Report for the study conducted pursuant to the approved CMS Plan. The draft CMS Report shall be submitted to the Regional Administrator in accordance with the timeframes specified in the Corrective Action Management Plan or no later than (90) calendar days from the Regional Administrator's approval of the CMS Workplan. The final CMS Report shall be submitted to the Regional Administrator within sixty (60) days of receipt of the Regional Administrator's comments on the draft CMS Report or as otherwise specified by the Regional Administrator. The CMS Report shall summarize any bench-scale or pilot tests conducted. The CMS Report must include an evaluation of each remedial alternative. The CMS Report shall present all information gathered under the approved CMS Plan. The CMS Final Report must contain adequate information to support the Regional Administrator's decision on the recommended remedy, described under Permit Condition II.H.

II.G.3.b. If the Regional Administrator determines that the CMS Final Report does not fully satisfy the information requirements specified under Permit Condition II.G.3.a, the Regional Administrator may disapprove the CMS Final

Report. If the Regional Administrator disapproves the CMS Final Report, the Regional Administrator shall notify the Permittee in writing of deficiencies in the CMS Final Report and specify a due date for submittal of a revised CMS Final Report. The Regional Administrator will notify the Permittee of any no further action decision.

- II.G.3.c. As specified under Permit Condition II.G.3.b, based on preliminary results and the CMS Final Report, the Regional Administrator may require the Permittee to evaluate additional remedies or particular elements of one or more proposed remedies.

II.H. REMEDY APPROVAL AND PERMIT MODIFICATION

II.H.1. A remedy shall be selected from the remedial alternatives evaluated in the CMS. It will be based at a minimum on protection of human health and the environment, as per specific site conditions, existing regulations, and guidance.

II.H.2. A permit modification may be initiated by the Regional Administrator, pursuant to 40 CFR Section 270.41, or by the Permittee, pursuant to 40 CFR Section 270.42, after recommendation and selection of a remedy under Condition II.H.1. This modification will serve to incorporate a final remedy into this permit.

II.H.3. Upon initiating a request to modify the permit to incorporate a final remedy, the Permittee shall implement the requirements of 40 CFR Section 270.42 and prepare all supporting documents including a Statement of Basis pursuant to current EPA guidance or regulations (e.g., Guidance on RCRA Corrective Action Decision Documents, EPA/540/G-91/011, dated February 1991). The Draft Statement of Basis shall be submitted to the Regional Administrator within 30 days of the date of the request from the permittee initiating the permit modification. The permittee shall modify the Draft Statement of Basis as specified by the Regional Administrator.

II.I. MODIFICATION OF THE CORRECTIVE ACTION SCHEDULE OF COMPLIANCE

II.I.1. If at any time the Regional Administrator determines that modification of the Corrective Action Schedule of Compliance or Corrective Action Management Plan (CAMP)

is necessary, the Regional Administrator may initiate a modification to the Schedule of Compliance (Appendix D) or the CAMP. The CAMP shall be the enforceable Corrective Action Schedule or Compliance subject to the terms of this permit upon approval by the Regional Administrator.

- II.I.2. Modifications that are initiated and finalized by the Regional Administrator according to proper procedure, as outlined in Appendix E, shall not be subject to administrative appeal.
- II.I.3. The Permittee may initiate a modification to the Corrective Action Management Plan and/or Schedule of Compliance utilizing the procedures outlined under 40 CFR Section 270.42.
- II.I.4. Modifications to the Schedule of Compliance do not constitute a reissuance of the Permit.

II.J. IMMINENT HAZARDS

II.J.1. The Permittee shall report to the Regional Administrator any imminent or existing hazard to public health or the environment from any release of hazardous waste or hazardous constituents. Such information shall be reported orally within 24 hours from such time the Permittee become aware of the circumstances. This report shall include the information specified under Conditions I.D.14.a. and b.

II.J.2. A written report shall also be provided to the Regional Administrator within fifteen (15) calendar days of the time the Permittee become aware of the circumstances. The written report shall contain the information specified under Conditions I.D.14.a. and b.; a description of the release and its cause; the period of the release; whether the release has been stopped; and if not, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the release.

II.K. PLAN AND REPORT REQUIREMENTS

II.K.1. All plans and schedules shall be subject to approval by the Regional Administrator prior to implementation. The Permittee shall revise all submittals and schedules as

specified by the Regional Administrator. Upon approval the Permittee shall implement all plans and schedules as written.

- II.K.2. All plans and reports shall be submitted in accordance with the approved schedule. Extensions of the due date for submittals may be granted by the Regional Administrator based on the Permittee's demonstration that sufficient justification for the extension exists.
- II.K.3. If the Permittee at any time determines that the SAR information required under Condition II.B., the CS Workplan under II.D, or RFI Workplan(s) required under Condition II.E. no longer satisfy the requirements of 40 CFR §264.101 or this permit for prior or continuing releases of hazardous waste or hazardous constituents from solid waste management units and/or areas of concern, the Permittee shall submit an amended RFI Workplan(s) to the Regional Administrator within ninety (90) calendar days of such determination.
- II.K.4. All reports shall be signed and certified in accordance with 40 CFR §270.11.
- II.K.5. Three (3) copies of all reports and plans shall be provided by the Permittee to the Regional Administrator in care of the Chief, Federal Facilities Branch, Office of RCRA and Federal Facilities at the following address:

Chief Federal Facilities Branch  
Federal Facilities Branch  
Office of RCRA and Federal Facilities  
Waste Management Division  
Environmental Protection Agency  
Region IV  
345 Courtland Street  
Atlanta, Georgia 30365

Attention: Remedial Project Manager

PART III - WASTE MINIMIZATION

- III.A. Pursuant to 40 CFR §264.73(b)(9), and Section 3005(h) of RCRA, 42 U.S.C. 6925(h), the Permittee must certify, no less often than annually, that:
  - III.A.1. The Permittee has a program in place to reduce the volume and toxicity of hazardous waste generated to the degree determined by the Permittee to be economically practicable; and
  - III.A.2. The proposed method of treatment, storage or disposal is the most practicable method available to the Permittee which minimizes the present and future threat to human health and the environment.
- III.B. The Permittee shall maintain copies of this certification in the facility operating record as required by 40 CFR §264.73(b)(9).
- III.C. The Waste Minimization program required under III.A. above should address the objectives listed in Appendix F.

## PART IV - LAND DISPOSAL RESTRICTIONS

### IV.A. GENERAL RESTRICTIONS

- IV.A.1. 40 CFR Part 268 identifies hazardous wastes that are restricted from land disposal and defines those limited circumstances which an otherwise prohibited waste may continue to be placed on or in a land treatment, storage or disposal unit. The Permittee shall maintain compliance with the requirements of 40 CFR Part 268. Where the Permittee has applied for an extension, waiver or variance under 40 CFR Part 268, the Permittee shall comply with all restrictions on land disposal under this Part once the effective date for the waste has been reached pending final approval of such application.

### IV.B. LAND DISPOSAL PROHIBITIONS AND TREATMENT STANDARDS

- IV.B.1. A restricted waste identified in 40 CFR Part 268 Subpart C may not be placed in a land disposal unit without further treatment unless the requirements of 40 CFR Part 268 Subparts C and/or D are met.
- IV.B.2. The storage of hazardous wastes restricted from land disposal under 40 CFR Part 268 is prohibited unless the requirements of 40 CFR Part 268 Subpart E are met.

## PART V - ORGANIC AIR EMISSIONS REQUIREMENTS

The Permittee shall comply with the Organic Air Emissions Requirement of 40 CFR Part 264, Subpart AA (for process vents) subpart BB (for equipment leaks) and submit information received by §270.24 and §270.25.

PRELIMINARY DRAFT

APPENDIX A

SOLID WASTE MANAGEMENT UNIT SUMMARY

United States Department of Navy  
Mayport - Naval Station  
FL9 170 024 260

Appendix A-1

List of Solid Waste Management Units (SWMUs):

SWMU No.	Description
1	Landfill A
2	Landfill B
3	Landfill D
4	Landfill E
5	Landfill F
6	Waste Oil Pit/Sludge Drying Bed
7	OWTP Sludge Drying Beds
8	OWTP Percolation Pond
9	Oily Waste Treatment Plant
10	Hazardous Waste Storage Area
11	Fuel Spill Area
12	Neutralization Basin
13	Old Fire Training Area
14	Mercury/Oil Waste Spill Area
15	Old Pesticide Area
16	Old Transformer Storage Yard
17	Carbonaceous Fuel Boiler
18	FTC Diesel Generator Sump
19	NADEP Blasting Area
20	Hobby Shop Drain
21	Hobby Shop Scrap Storage Area
22	Building 1600 Blasting Area
23	JSI - Area
24	NFSI - Area
25	AMI - Area
26	Landfill C
27	Former Hazardous Waste Storage Area (NIRP Site 7)
28	DRMO Yard
29	Oily Waste Pipeline Break
30	NEX Battery Corral

Appendix A-1 (cont.)

SWMU No.	Description
31	FTC OBA Accumulation Area
32	FTC Mercuric Waste Accumulation Area
33	SIMA Accumulation Areas
34	Hobby Shop Accumulation Area
35	NADEP Accumulation Area
36	Carrier Pier Accumulation Area
37	" " " "
38	" " " "
39	PWD Paint Shop Accumulation Area
40	Building 1343 " "
41	Building 1600 " "
42	AIMD Building 1533 " "
43	Wastewater Treatment Facility (WWTF)
44	Wastewater Treatment Facility Clarifiers 1 & 2
45	Wastewater Treatment Facility Sludge Drying Beds
46	SIMA Engine Drain Sump
47	Oily Waste Collection System
48	Former Chemistry Lab. Acc. Area
49	Flight Line Retention Ponds
50	Dredge Spoil Disposal Areas
51	Waste Oil Tanks
52	PWD Service Station Storage Area
53	Sewer Pipelines
54	Oil/Water Separators
55	Storm Sewer & Drainage System
56	Building 1552 Accumulation Area
AOC-A	Fuel Distribution System
AOC-B	Underground Product Storage Tanks

Appendix A-2

List of SWMUs and AOCs Requiring No further Action at this time:

SWMU No.	Description
27	Former Hazardous Waste Storage Area (NIRP Site 7)
30	NEX Battery Corral
31	FTC OBA Accumulation Area
32	FTC Mercuric Waste Accumulation Area
33	SIMA Accumulation Areas
34	Hobby Shop Accumulation Area
35	NADEP Accumulation Area
36	Carrier Pier Accumulation Area
37	" " " "
38	" " " "
39	PWD Paint Shop Accumulation Area
40	Building 1343 Accumulation Area
41	Building 1600 Accumulation Area
42	AIMD Building 1533 Accumulation Area
43	Wastewater Treatment Facility (WWTF)

15

Appendix A-3

List of Solid Waste Management Units requiring an RFI:

GROUP No. I SWMUs

<u>SWMU Number</u>	<u>Description</u>
2	Landfill B
3	Landfill D
4	Landfill E
5	Landfill F
13	Old Fire Training Area
22	Building 1600 Blasting Area

GROUP No. II SWMUs

6	Waste Oil Pit/Sludge Drying Bed
7	OWTP Sludge Drying Beds
8	OWTP Percolation Pond
9	Oily Waste Treatment Plant
10	Hazardous Waste Storage Area
11	Fuel Spill Area
12	Neutralization Basin
15	Old Pesticide Area
16	Old Transformer Storage Area

GROUP No. III SWMUs

1	Landfill A
14	Mercury/Oil Waste Spill Area
17	Carbonaceous Fuel Boiler

18

Appendix A-4

List of Solid Waste Management Units and Areas of Concern that require Confirmatory Sampling.

GROUP No. I SWMUs

SWMU Number	Description
26	Landfill C
49	Flight Line Retention Ponds
50	Dredge Spoil Disposal Areas
56	Building 1552 Accumulation Area

GROUP No. II SWMUs

19	NADEP Blasting Area
28	DRMO Yard
48	Former Chemistry Lab. Accumulation Area
51	Waste Oil Tanks

GROUP No. III SWMUs

18	FTC Diesel Generator Sump
20	Hobby Shop Drain
21	Hobby Shop Scrap Storage Area
23	JSI - Area
24	NFSI - Area
25	AMI - Area
29	Oily Waste Pipeline Break
44	Wastewater Treatment Facility Clarifiers 1 & 2
45	Wastewater Treatment Facility Sludge Drying Beds
46	SIMA Engine Drain Sump
52	PWD Service Station Storage Area

GROUP No. IV SWMUs

47	Oily Waste Collection System
53	Sewer Pipelines
54	Oil/Water Separators
55	Storm Sewer and Drainage System
AOC A	Fuel Distribution System (Assess)
AOC B	Underground Product Storage Tanks (Assess)

*Handwritten notes: 23 + 2 AOC*

Note: "Assess" indicates additional data gathering necessary to determine RFA/RFI requirements.

**APPENDIX B**

**RCRA Facility Investigation (RFI)  
Workplan Outline**

## APPENDIX B

### RCRA FACILITY INVESTIGATION (RFI) WORKPLAN OUTLINE

#### I. RFI WORKPLAN REQUIREMENTS

The Permittee shall prepare a RCRA Facility Investigation (RFI) Workplan that meets the requirements of Part II of this document and the RFI Guidance, EPA-530/SW-89-031. This Workplan shall also include the development of the following plans, which shall be prepared concurrently:

##### A. Project Management Plan

Permittee shall prepare a Project Management Plan which will include a discussion of the technical approach, schedules and personnel. The Project Management Plan will also include a description of qualifications of personnel performing or directing the RFI, including contractor personnel. This plan shall also document the overall management approach to the RCRA Facility Investigation.

##### B. Sampling and Analysis Plan(s)

The Permittee shall prepare a plan to document all monitoring procedures: field sampling, sampling procedures and sample analysis performed during the investigation to characterize the environmental setting, source, and releases of hazardous constituents, so as to ensure that all information and data are valid and properly documented. The Sampling Strategy and Procedures shall be in accordance with Characterization of Hazardous Waste Sites A Methods Manual: Volume II., Available Sampling Methods, EPA-600/4-84-076, or EPA Region IV Engineering Support Branch's Standard Operating Procedure and Quality Assurance Manual (SOP). Any deviations from these references must be requested by the applicant and approved by EPA. The Sampling and Analysis Plan must specifically discuss the following unless the EPA-600/4-84-076 or SOP procedures are specifically referenced.

1. Sampling Strategy

- a. Selecting appropriate sampling locations, depths, etc.;
- b. Obtaining all necessary ancillary data;
- c. Determining conditions under which sampling should be conducted;
- d. Determining which media are to be sampled (e.g., groundwater, air, soil, sediment, subsurface gas);
- e. Determining which parameters are to be measured and where;
- f. Selecting the frequency of sampling and length of sampling period;
- g. Selecting the types of samples (e.g., composites vs. grabs) and number of samples to be collected.

2. Sampling Procedures

- a. Documenting field sampling operations and procedures, including;
  - i) Documentation of procedures for preparation of reagents or supplies which become an integral part of the sample (e.g., filters, preservatives, and absorbing reagents);
  - ii) Procedures and forms for recording the exact location and specific considerations associated with sample acquisition;
  - iii) Documentation of specific sample preservation method;
  - iv) Calibration of field instruments;
  - v) Submission of field-biased blanks, where appropriate;
  - vi) Potential interferences present at the facility;
  - vii) Construction materials and techniques associated with monitoring wells and piezometers;
  - viii) Field equipment listing and sampling containers;

- ix) Sampling order; and
- x) Decontamination procedures.
- b. Selecting appropriate sample containers;
- c. Sampling preservation; and
- d. Chain-of-custody, including:
  - i) Standardized field tracking reporting forms to establish sample custody in the field prior to shipment; and
  - ii) Pre-prepared sample labels containing all information necessary for effective sample tracking.

### 3. Sample Analysis

Sample analysis shall be conducted in accordance with SW-846: "Test Methods for Evaluating Solid Waste -Physical/Chemical Methods" (third edition). The sample analysis section of the Sampling and Analysis Plan shall specify the following:

- a. Chain-of-custody procedures, including:
  - i) Identification of a responsible party to act as sampling custodian at the laboratory facility authorized to sign for incoming field samples, obtain documents of shipment, and verify the data entered onto the sample custody records;
  - ii) Provision for a laboratory sample custody log consisting of serially numbered standard lab-tracking report sheets; and
  - iii) Specification of laboratory sample custody procedures for sample handling, storage, and dispersment for analysis.
- b. Sample storage;
- c. Sample preparation methods;
- d. Analytical Procedures, including:
  - i) Scope and application of the procedure;

- ii) Sample matrix;
- iii) Potential interferences;
- iv) Precision and accuracy of the methodology; and
- v) Method detection limits.
- e. Calibration procedures and frequency;
- f. Data reduction, validation and reporting;
- g. Internal quality control checks, laboratory performance and systems audits and frequency, including:
  - i) Method blank(s);
  - ii) Laboratory control sample(s);
  - iii) Calibration check sample(s);
  - iv) Replicate sample(s);
  - v) Matrix-spiked sample(s);
  - vii) Control charts;
  - viii) Surrogate samples;
  - ix) Zero and span gases; and
  - x) Reagent quality control checks.
- h. Preventive maintenance procedures and schedules;
- i. Corrective action (for laboratory problems); and
- j. Turnaround time.

C. Data Management Plan

The Permittee shall develop and initiate a Data Management Plan to document and track investigation data and results. This plan shall identify and set up data documentation materials and procedures, project file requirements, and project-related progress reporting procedures and documents.

The plan shall also provide the format to be used to present the raw data and conclusions of the investigation.

### 1. Data Record

The data record shall include the following:

- a. Unique sample or field measurement code;
- b. Sampling or field measurement location and sample or measurement type;
- c. Sampling or field measurement raw data;
- d. Laboratory analysis ID number;
- e. Property or component measures; and
- f. Result of analysis (e.g. concentration).

### 2. Tabular Displays

The following data shall be presented in tabular displays:

- a. Unsorted (raw) data;
- b. Results for each medium, or for each constituent monitored;
- c. Data reduction for statistical analysis, as appropriate;
- d. Sorting of data by potential stratification factors (e.g., location, soil layer, topography); and
- e. Summary data.

### 3. Graphical Displays

The following data shall be presented in graphical formats (e.g., bar graphs, line graphs, area or plan maps, isopleth plots, cross-sectional plots or transits, three dimensional graphs, etc.):

- a. Display sampling location and sampling grid;
- b. Indicate boundaries of sampling area, and area where more data are required;

- c. Display geographical extent of contamination;
- d. Illustrate changes in concentration in relation to distances from the source, time, depth or other parameters; and
- e. Indicate features affecting inter-media transport and show potential receptors.

## II. RCRA Facility Investigation (RFI) Requirements.

### RCRA Facility Investigation:

The Permittee shall conduct those investigations necessary to: characterize the facility (Environmental Setting); define the source (Source Characterization); define the degree and extent of release of hazardous constituents (Contamination Characterization); and identify actual or potential receptors.

The investigations should result in data of adequate technical content and quality to support the development and evaluation of the corrective action plan if necessary. The information contained in a RCRA Part B permit application (40 CFR Section and/or RCRA Section 3019 Exposure Information Report may be referenced as appropriate.

All sampling and analyses shall be conducted in accordance with the Sampling and Analysis Plan. All sampling locations shall be documented in a log and identified on a detailed site map.

#### A. Environmental Setting

The Permittee shall collect information to supplement and/or verify Part B information (40 CFR Section 270.14) on the environmental setting at the facility. The Permittee shall characterize the following as they relate to identified sources, pathways and areas of releases of hazardous constituents from Solid Waste Management Units.

##### 1. Hydrogeology

The Permittee shall conduct a program to evaluate hydrogeologic conditions at the facility. This program shall provide the following information:

- a. A description of the regional and facility specific geologic and hydrogeologic characteristics affecting groundwater flow beneath the facility, including:
  - i) Regional and facility specific stratigraphy: description of strata including strike and dip, identification of stratigraphic contacts;
  - ii) Structural geology: description of local and regional structural features (e. g., folding, faulting, tilting, jointing, etc.);
  - iii) Depositional history;
  - iv) Regional and facility specific groundwater flow patterns; and
  - v) Identification and characterization of areas and amounts of recharge and discharge.
- b. An analysis of any topographic features that might influence the groundwater flow system.
- c. Based on field data, tests, and cores, a representative and accurate classification and description of the hydrogeologic units which may be part of the migration pathways at the facility (i. e., the aquifers and any intervening saturated and unsaturated units), including:
  - i) Hydraulic conductivity and porosity (total and effective);
  - ii) Lithology, grain size, sorting, degree of cementation;
  - iii) An interpretation of hydraulic interconnections between saturated zones; and
  - iv) The attenuation capacity and mechanisms of the natural earth materials (e. g., ion exchange capacity, organic carbon content, mineral content etc.).
- d. Based on data obtained from groundwater monitoring wells and piezometers installed upgradient and downgradient of the potential contaminant source, a representative description of water level or fluid pressure monitoring including:

- i) Water-level contour and/or potentiometric maps;
- ii) Hydrologic cross sections showing vertical gradients
- iii) The flow system, including the vertical and horizontal components of flow; and
- iv) Any temporal changes in hydraulic gradients, for example, due to tidal or seasonal influences.
- e. A description of man-made influences that may affect the hydrology of the site, identifying:
  - i) Local water-supply and production wells with an approximate schedule of pumping; and
  - ii) Man-made hydraulic structures (pipelines, french drains, ditches, etc.).

## 2. Soils

The Permittee shall conduct a program to characterize the soil and rock units above the water table in the vicinity of contaminant release(s). Such characterization may include, but not be limited to, the following types of information as appropriate:

- a. Surface soil distribution;
- b. Soil profile, including ASTM classification of soils;
- c. Transects of soil stratigraphy;
- d. Hydraulic conductivity (saturated and unsaturated);
- e. Relative permeability;
- f. Bulk density;
- g. Porosity;
- h. Soil sorption capacity;
- i. Cation exchange capacity (CEC);
- j. Soil organic content;
- k. Soil pH;
- l. Particle size distribution;
- m. Depth of water table;
- n. Moisture content;
- o. Effect of stratification on unsaturated flow;
- p. Infiltration;
- q. Evapotranspiration;
- r. Storage capacity;
- s. Vertical flow rate; and
- t. Mineral content.

### 3. Surface Water and Sediment

The Permittee shall conduct a program to characterize the surface water bodies in the vicinity of the facility. Such characterization may include, but not be limited to, the following activities and information:

- a. Description of the temporal and permanent surface water bodies including:
  - i) For lakes and estuaries: location, elevation, surface area, inflow, outflow, depth, temperature stratification, and volume;
  - ii) For impoundments: location, elevation, surface area, depth, volume, freeboard, and construction and purpose;
  - iii) For streams, ditches, and channels: location, elevation, flow, velocity, depth, width, seasonal fluctuations, flooding tendencies (i. e., 100 year event), discharge point(s), and general contents.
  - iv) Drainage patterns; and
  - v) Evapotranspiration.
- b. Description of the chemistry of the natural surface water and sediments. This includes determining the pH, total dissolved solids, total suspended solids, biological oxygen demand, alkalinity, conductivity, dissolved oxygen profiles, nutrients, chemical oxygen demand, total organic carbon, specific contaminant concentrations, etc.
- c. Description of sediment characteristics including:
  - i) Deposition area;
  - ii) Thickness profile; and
  - iii) Physical and chemical parameters (e. g., grain size, density, organic carbon content, ion exchange capacity, pH, etc.)

#### 4. Air

The Permittee shall provide information characterizing the climate in the vicinity of the facility. Such information may include, but not be limited to:

- a. A description of the following parameters:
  - i) Annual and monthly rainfall averages;
  - ii) Monthly temperature averages and extremes;
  - iii) Wind speed and direction;
  - iv) Relative humidity/dew point;
  - v) Atmospheric pressure;
  - vi) Evaporation data;
  - vii) Development of inversions; and
  - viii) Climate extremes that have been known to occur in the vicinity of the facility, including frequency of occurrence (i.e., hurricanes).
- b. A description of topographic and man-made features which affect air flow and emission patterns, including:
  - i) Ridges, hills or mountain areas;
  - ii) Canyons or valleys;
  - iii) Surface water bodies (e. g. rivers, lakes, bays, etc.); and
  - iv) Buildings.

#### B. Source Characterization

For those sources from which releases of hazardous constituents have been detected the Permittee shall collect analytical data to completely characterize the wastes and the areas where wastes have been placed, to the degree that is possible without undue safety risks, including: type; quantity; physical form; disposition (containment or nature

of deposits); and facility characteristics affecting release (e.g., facility security, and engineering barriers). This shall include quantification of the following specific characteristics, at each source area:

1. Unit/Disposal Area Characteristics:

- a. Location of unit/disposal area;
- b. Type of unit/disposal area;
- c. Design features;
- d. Operating practices (past and present)
- e. Period of operation;
- f. Age of unit/disposal area;
- g. General physical conditions; and
- h. Method used to close the unit/disposal area.

2. Waste Characteristics:

- a. Type of wastes placed in the unit;
  - i) Hazardous classification (e. g., flammable, reactive, corrosive, oxidizing or reducing agent);
  - ii) Quantity; and
  - iii) Chemical composition.
- b. Physical and chemical characteristics such as;
  - i) Physical form (solid, liquid, gas);
  - ii) Physical description (e. g., powder, oily sludge);
  - iii) Temperature;
  - iv) pH;
  - v) General chemical class (e. g., acid, base, solvent);
  - vi) Molecular weight;
  - vii) Density;
  - viii) Boiling point;
  - ix) Viscosity;

- x) Solubility in water;
  - xi) Cohesiveness of the waste; and
  - xii) Vapor pressure.
- c. Migration and dispersal characteristics of the waste such as:
- i) Sorption capability;
  - ii) Biodegradability, bioconcentration, biotransformation;
  - iii) Photodegradation rates;
  - iv) Hydrolysis rates; and
  - v) Chemical transformations.

The Permittee shall document the procedures used in making the above determinations.

### C. Characterization of Releases of Hazardous Constituents

The Permittee shall collect analytical data on groundwater, soils, surface water, sediment, and subsurface gas contamination in the vicinity of the facility in accordance with the sampling and analysis plan as required above. These data shall be sufficient to define the extent, origin, direction, and rate of movement of contamination. Data shall include time and location of sampling, media sampled, concentrations found, conditions during sampling, and the identity of the individuals performing the sampling and analysis. The Permittee shall address the following types of contamination at the facility:

#### 1. Groundwater Contamination

The Permittee shall conduct a groundwater investigation to characterize any plumes of contamination detected at the facility. This investigation shall at a minimum provide the following information:

- a. A description of the horizontal and vertical extent of any plume(s) of hazardous constituents originating from or within the facility;

- b. The horizontal and vertical direction of contamination movement;
- c. The velocity of contaminant movement;
- d. The horizontal and vertical concentration profiles of hazardous constituents in the plume(s);
- e. An evaluation of factors influencing the plume movement; and
- f. An extrapolation of future contaminant movement.

The Permittee shall document the procedures used in making the above determinations (e. g., well design, well construction, geophysics, modeling, etc.).

## 2. Soil Contamination

The Permittee shall conduct an investigation to characterize the contamination of the soil and rock units above the saturated zone in the vicinity of any contaminant release. The investigation may include the following information:

- a. A description of the vertical and horizontal extent of contamination;
- b. A description of appropriate contaminant and soil chemical properties within the contaminant source area and plume. This may include contaminant solubility, speciation, absorption, leachability, exchange capacity, biodegradability, hydrolysis, photolysis, oxidation and other factors that might affect contaminant migration and transformation;
- c. Specific contaminant concentrations;
- d. The velocity and direction of contaminant movement; and
- e. An extrapolation of future contaminant movement.

The Permittee shall document the procedures used in making the above determinations.

### 3. Surface Water and Sediment Contamination

The Permittee shall conduct a surface water investigation to characterize contamination in surface water bodies resulting from releases of hazardous constituents at the facility. The investigation may include, but not be limited to, the following information:

- a. A description of the horizontal and vertical extent of any plume(s) originating from the facility, and the extent of contamination in underlying sediments;
- b. The horizontal and vertical direction of contaminant movement;
- c. The contaminant velocity;
- d. An evaluation of the physical, biological and chemical factors influencing contaminant movement;
- e. An extrapolation of future contaminant, movement; and
- f. A description of the chemistry of the contaminated surface waters and sediments. This includes determining the pH, total dissolved solids, specific contaminant concentrations, etc.

### 4. Air Contamination

The Permittee shall conduct an investigation to characterize gaseous releases of hazardous constituents into the atmosphere or any structures or buildings. This investigation may provide the following information:

- a. A description of the horizontal and vertical direction and velocity of contaminant movement;
- b. The rate and amount of the release; and
- c. The chemical and physical composition of the contaminant(s) released, including horizontal and vertical concentration profiles. The Permittee shall document the procedures used in making the above determinations.

#### D. Potential Receptors

The Permittee shall collect data describing the human populations and environmental systems that are susceptible to contaminant exposure from the facility. Chemical analysis of biological samples and/or data on observable effects in ecosystems may also be obtained as appropriate. The following characteristics shall be identified:

1. Current local uses and planned future uses of groundwater:
  - a. Type of use (e. g., drinking water source: municipal or residential, agricultural, domestic/non-potable, and industrial); and
  - b. Location of groundwater users, to include withdrawal and discharge wells, within one mile of the impacted area.

The above information should also indicate the aquifer or hydrogeologic unit used and/or impacted for each item.

2. Current local uses and planned future uses of surface waters directly impacted by the facility:
  - a. Domestic and municipal (e. g., potable and lawn/gardening watering);
  - b. Recreational (e. g. swimming, fishing);
  - c. Agricultural;
  - d. Industrial; and
  - e. Environmental (e. g., fish and wildlife propagation).
3. Human use of or access to the facility and adjacent lands, including but not limited to:
  - a. Recreation;
  - b. Hunting;
  - c. Residential;
  - d. Commercial; and

- e. Relationship between population locations and prevailing wind direction.
4. A general description of the biota in surface water bodies on, adjacent to, or affected by the facility.
5. A general description of the ecology within area the area adjacent to the facility.
6. A general demographic profile of the people who use or have access to the facility and adjacent land, including, but not limited to: age; sex; and sensitive subgroups.
7. A description of any known or documented endangered or threatened species near the facility.

APPENDIX C

Corrective Measures Study (CMS)  
Workplan Outline

APPENDIX C

CORRECTIVE MEASURE STUDY (CMS) WORKPLAN OUTLINE

- I. Identification and Development of the Corrective Measure Alternatives
  - A. Description of Current Situation
  - B. Establishment of Corrective Action Objectives
  - C. Screening of Corrective Measures Technologies
  - D. Identification of the Corrective Measure Alternatives
- II. Evaluation of the Corrective Measure Alternatives
  - A. Technical/Environmental/Human Health/Institutional
  - B. Cost Estimate
- III. Justification and Recommendation of the Corrective Measure or Measures
  - A. Technical
  - B. Human Health
  - C. Environmental
- IV. Reports
  - A. Draft
  - B. Final
  - C. Public Review and Final Selection of Corrective Measure

I. IDENTIFICATION AND DEVELOPMENT OF THE CORRECTIVE MEASURES ALTERNATIVES

Based on the results of the RCRA Facility Investigation and consideration of the identified potential corrective measure technologies, the Permittee shall identify, screen and develop the alternatives for removal, containment, treatment and/or other remediation of the contamination based on the objectives established for the corrective action.

A. Description of Current Situation

The Permittee shall submit an update to the information describing the current situation at the facility and the known nature and extent of the contamination as documented by the RCRA Facility Investigation (RFI) Report. The Permittee shall provide an update to information presented in the RFI regarding previous response activities and interim measures which have or are being implemented at the facility. The Permittee shall also make a facility-specific statement of the purpose for the response, based on the results of the RFI. The statement of purpose should identify the actual or potential exposure pathways that should be addressed by corrective measures.

B. Establishment of Corrective Action Objectives

The Permittee shall propose facility-specific objectives for the corrective action. These objectives shall be based on public health and environmental criteria, information gathered during the RFI, EPA guidance, and the requirements of any applicable Federal statutes. At a minimum, all corrective actions concerning groundwater releases from regulated units must be consistent with, and as stringent as, those required under 40 CFR §264.100.

C. Screening of Corrective Measure Technologies

The Permittee shall review the results of the RFI and assess the technologies which are applicable at the facility. The Permittee shall screen the corrective measure technologies to eliminate those that may prove infeasible to implement, that rely on technologies unlikely to perform satisfactorily or reliably, or that do not achieve the corrective measure objective within a reasonable time period. This screening process focuses on eliminating those technologies which have severe limitations for a given set of waste and site-specific conditions. The screening step may also eliminate technologies based on inherent technology limitations. Site, waste, and technology characteristics which are used to screen inapplicable technologies are described in more detail below:

1. Site Characteristics

Site data should be reviewed to identify conditions that may limit or promote the use of certain

technologies. Technologies whose use is clearly precluded by site characteristics should be eliminated from further consideration.

## 2. Waste Characteristics

Identification of waste characteristics that limit the effectiveness or feasibility of technologies is an important part of the screening process. Technologies clearly limited by these waste characteristics should be eliminated from consideration. Waste characteristics particularly affect the feasibility of in-situ methods, direct treatment methods, and land disposal (on/off-site).

## 3. Technology Limitations

During the screening process, the level of technology development, performance record, and inherent construction, operation, and maintenance problems should be identified for each technology considered. Technologies that are unreliable, perform poorly, or are not fully demonstrated may be eliminated in the screening process. For example, certain treatment methods have been developed to a point where they can be implemented in the field without extensive technology transfer or development.

## D. Identification of the Corrective Measure Alternatives

The Permittee shall develop the corrective measure alternatives based on the corrective action objectives and analysis of potential corrective measure technologies. The Permittee shall rely on engineering practice to determine which of the previously identified technologies appear most suitable for the site. Technologies can be combined to form the overall corrective action alternatives. The alternatives developed should represent a workable number of option(s) that each appear to adequately address all site problems and corrective action objectives. Each alternative may consist of an individual technology or a combination of technologies. The Permittee shall document the reasons for excluding technologies.

## II. EVALUATION OF THE CORRECTIVE MEASURE ALTERNATIVES

The Permittee shall describe each corrective measure alternative that passes through the initial screening and evaluate each corrective measure alternative and its

components. The evaluation shall be based on technical, environmental, human health and institutional concerns. The Permittee shall also develop cost estimates of each corrective measure.

A. Technical/Environmental/Human Health/Institutional

The Permittee shall provide a description of each corrective measure alternative which includes but is not limited to the following: preliminary process flow sheets; preliminary sizing and type of construction for buildings and structures; and rough quantities of utilities required. The Permittee shall evaluate each alternative in the four following areas:

1. Technical

The Permittee shall evaluate each corrective measure alternative based on performance, reliability, implementability and safety.

- a. The Permittee shall evaluate performance based on the effectiveness and useful life of the corrective measure:
  - i) Effectiveness shall be evaluated in terms of the ability to perform intended functions, such as containment, diversion, removal, destruction, or treatment. The effectiveness of each corrective measure shall be determined either through design specifications or by performance evaluation. Any specific waste or site characteristics which could potentially impede effectiveness shall be considered. The evaluation should also consider the effectiveness of combinations of technologies; and
  - ii) Useful life is defined as the length of time the level of desired effectiveness can be maintained. Most corrective measure technologies, with the exception of destruction, deteriorate with time. Often, deterioration can be slowed through proper system operation and maintenance, but the technology eventually may require replacement. Each corrective measure shall be evaluated in terms of the projected service lives of its component technologies.

Resource availability in the future life of the technology, as well as appropriateness of the technologies, must be considered in estimating the useful life of the project.

- b. The Permittee shall provide information on the reliability of each corrective measure including their operation and maintenance requirements and their demonstrated reliability:
  - i) Operation and maintenance requirements include the frequency and complexity of necessary operation and maintenance. Technologies requiring frequent or complex operation and maintenance activities should be regarded as less reliable than technologies requiring little or straightforward operation and maintenance. The availability of labor and materials to meet these requirements shall also be considered; and
  - ii) Demonstrated and expected reliability is a way of measuring the risk and effect of failure. The Respondent should evaluate whether the technologies have been used effectively under analogous conditions; whether the combination of technologies have been used together effectively; whether failure of any one technology has an immediate impact on receptors; and whether the corrective measure has the flexibility to deal with uncontrollable changes at the site.
- c. The Permittee shall describe the implementability of each corrective measure including the relative ease of installation (constructability) and the time required to achieve a given level of response:
  - i) Constructability is determined by conditions both internal and external to the facility conditions and include such items as location of underground utilities, depth to water table, heterogeneity of subsurface materials, and location of the facility (i.e., remote location vs. a congested urban area). The Permittee shall evaluate what

measures can be taken to facilitate construction under these conditions. External factors which affect implementation include the need for special permits or agreements, equipment availability, and the location of suitable off-site treatment or disposal facilities; and

ii) Time has two components that shall be addressed: the time it takes to implement a corrective measure and the time it takes to actually see beneficial results. Beneficial results are defined as the reduction of contaminants to some acceptable, pre-established level.

d. The Permittee shall evaluate each corrective measure alternative with regard to safety. This evaluation shall include threats to the safety of nearby communities and environments as well as those to workers during implementation. Factors to consider are fire, explosion, and exposure to hazardous substances.

## 2. Environmental

The Permittee shall perform an Environmental Assessment for each alternative. The Environmental Assessment shall focus on the facility conditions and pathways of contamination actually addressed by each alternative. The Environmental Assessment for each alternative will include, at a minimum, an evaluation of: the short- and long-term beneficial and adverse effects of the response alternative; any adverse effects on environmentally sensitive areas; and an analysis of measures to mitigate adverse effects.

## 3. Human Health

The Permittee shall assess each alternative in terms of the extent to which it mitigates short- and long-term potential exposure to any residual contamination and protects human health both during and after implementation of the corrective measure. The assessment will describe the concentrations and characteristics of the contaminants on-site, potential exposure routes, and potentially affected population. Each alternative will be evaluated to determine the level of exposure to

contaminants and the reduction over time. For management of mitigation measures, the relative reduction of impact will be determined by comparing residual levels of each alternative with existing criteria, standards, or guidelines acceptable to EPA.

4. Institutional

The Permittee shall assess relevant institutional needs for each alternative. Specifically, the effects of Federal, state and local environmental and public health standards, regulations, guidance, advisories, ordinances, or community relations on the design, operation, and timing of each alternative. If the selected remedy is capping and closure in place, a notation shall be made in the land deed.

B. Cost Estimate

The Permittee shall develop an estimate of the cost of each corrective measure alternative (and for each phase or segment of the alternative). The cost estimate shall include both capital and operation and maintenance costs.

1. Capital costs consist of direct (construction) and indirect (nonconstruction and overhead) costs.
  - a. Direct capital costs include:
    - i) Construction costs: Costs of materials, labor (including fringe benefits and worker's compensation), and equipment required to install the corrective measure.
    - ii) Equipment costs: Costs of treatment, containment, disposal and/or service equipment necessary to implement the action; these materials remain until the corrective action is complete;
    - iii) Land and site-development costs: Expenses associated with purchase of land and development of existing property; and
    - iv) Buildings and services costs: Costs of process and nonprocess buildings, utility connections, purchased services, and disposal costs.

b. Indirect capital costs include:

- i) Engineering expenses: Costs of administration, design, construction supervision, drafting, testing of corrective measure alternatives;
- ii) Legal fees and license or permit costs: Administrative and technical costs necessary to obtain licenses and permits for installation and operation;
- iii) Start-up and shakedown costs: Costs incurred during corrective measure start-up; and
- iv) Contingency allowances: Funds to cover costs resulting from unforeseen circumstances, such as adverse weather conditions, strikes, and inadequate facility characterization.

2. Operation and maintenance costs are post-construction costs necessary to ensure continued effectiveness of a corrective measure. The Permittee shall consider the following operation and maintenance cost components:

- a. Operating labor costs: Wages, salaries, training, overhead, and fringe benefits associated with the labor needed for post-construction operations;
- b. Maintenance materials and labor costs: Costs for labor, parts, and other resources required for routine maintenance of facilities and equipment;
- c. Auxiliary materials and energy: Costs of such items as chemicals and electricity for treatment plant operations, water and sewer service, and fuel;
- d. Purchased services: Sampling costs, laboratory fees, and professional fees for which the need can be predicted;
- e. Disposal and treatment costs: Costs of transporting, treating, and disposing of waste materials, such as treatment plant residues, generated during operations;

- f. Administrative costs: Costs associated with administration of corrective measure operation and maintenance not included under other categories;
- g. Insurance, taxes, and licensing costs: Costs of such items as liability and sudden accident insurance; real estate taxes on purchased land or right-of-way; licensing fees for certain technologies; and permit renewal and reporting costs;
- h. Maintenance reserve and contingency funds: Annual payments into escrow funds to cover (1) costs of anticipated replacement or rebuilding of equipment and (2) any large unanticipated operation and maintenance costs; and
- i. Other costs: Items that do not fit any of the above categories.

### III. JUSTIFICATION AND RECOMMENDATION OF THE CORRECTIVE MEASURE OR MEASURES

The Permittee shall justify and recommend a corrective measure alternative using technical, human health, and environmental criteria. This recommendation shall include summary tables which allow the alternative or alternatives to be understood easily. Trade-offs among health risks, environmental effects, and other pertinent factors shall be highlighted. The Regional Administrator will select the corrective measure alternative or alternatives to be implemented based on the results obtained from work completed under Section II and III. At a minimum, the following criteria will be used to justify the final corrective measure or measures.

#### A. Technical

1. Performance - corrective measure or measures which are most effective at performing their intended functions and maintaining the performance over extended periods of time will be given preference;
2. Reliability - corrective measure or measures which do not require frequent or complex operation and maintenance activities and that have proved effective under waste and facility conditions similar to those anticipated will be given preference;

3. Implementability - corrective measure or measures which can be constructed and operated to reduce levels of contamination to attain or exceed applicable standards in the shortest period of time will be preferred; and
4. Safety - corrective measure or measures which pose the least threat to the safety of nearby residents and environments as well as workers during implementation will be preferred.

B. Human Health

The corrective measure(s) must comply with existing U.S. EPA criteria, standards, or guidelines for the protection of human health. Corrective measures which provide the minimum level of exposure to contaminants and the maximum reduction in exposure with time are preferred.

C. Environmental

The corrective measure(s) posing the least adverse impact (or greatest improvement) over the shortest period of time on the environment will be favored.

IV. REPORTS

The Permittee shall prepare a Corrective Measure Study Report presenting the results obtained from Sections I through III and recommending a corrective measure alternative. Copies of the preliminary report shall be provided by the Permittee to the Regional Administrator for review and approval.

A. Draft

The Report shall at a minimum include:

1. A description of the facility;
  - a. Site topographic map & preliminary layouts.
2. A summary of the corrective measure(s) and rationale for selection;
  - a. Description of the corrective measure(s) and rationale for selection;
  - b. Performance expectations;

- c. Preliminary design criteria and rationale;
  - d. General operation and maintenance requirements;  
and
  - e. Long-term monitoring requirements.
3. A summary of the RCRA Facility Investigation and impact on the selected corrective measure or measures;
- a. Field studies (groundwater, surface water, soil, air); and
  - b. Laboratory studies (bench scale, pick scale).
4. Design and Implementation Precautions;
- a. Special technical problems;
  - b. Additional engineering data required;
  - c. Permits and regulatory requirements;
  - d. Access, easements, right-of-way;
  - e. Health and safety requirements; and
  - f. Community relations activities.
5. Cost Estimates and Schedules;
- a. Capitol cost estimate;
  - b. Operation and maintenance cost estimate; and
  - c. Project schedule (design, construction, operation).

Copies of the draft shall be provided by the Permittee to EPA.

B. Final

The Permittee shall finalize the Corrective Measure Study Report incorporating comments received from EPA on the Draft Corrective Measure Study Report. The report shall become final upon approval by the Regional Administrator.

C. Public Review and Final Selection of Corrective Measures

Upon receipt of the Final Corrective Measure Study Report, EPA shall announce its availability to the public for review and comment. At the end of the comment period, the Regional Administrator shall review the comments and then inform the Permittee of the final decision as to the approved Corrective Measures to be implemented.

.. APPENDIX D  
Schedule of Compliance

APPENDIX D

Schedule of Compliance

Schedule of Compliance	Due Date
Notification of Newly Identified SWMUs and AOCs Condition II.B.1 and Condition II.B.2.	Within fifteen (15) calendar days of discovery
SWMU Assessment Report Condition II.B.3.	Within ninety (90) calendar days of notification
Notification for Newly Discovered Releases at Previously Identified SWMUs and AOCs Condition II.C.1.	Within fifteen (15) calendar days of discovery
Confirmatory Sampling Workplan for SWMUs identified in Appendix A.4 Condition II.D.1	As specified in the CAMP or no later than ninety (90) days after the effective date of this permit

Schedule of Compliance	Due Date
Confirmatory Sampling Report Condition II.D.4.	As specified in the CAMP or no later than the date specified in the approved Workplan
RFI Workplan for SWMU(s) and AOC(s) identified in Appendix A.3	As specified in the CAMP or within one hundred twenty days (120) of the effective date of this permit
RFI Progress Reports Condition II.E.3.a.	Quarterly, beginning ninety (90) calendar days from the start date specified by the Regional Administrator*(RA)
Draft RFI Report Condition II.E.3.b.	As specified in the CAMP or no later than the date specified in the approved RFI Workplan
Final RFI Report Condition II.E.3.b.	Within sixty (60) calendar days after receipt of RA comments on the draft RFI report or as otherwise specified by the RA
RFI Workplan for SWMU(s) and AOC(s) identified under Condition II.B.4., Condition II.C.2., and Condition II.D.5.	Within ninety (90) calendar days after receipt of notification by RA which SWMUs or AOCs require an RFI

Schedule of Compliance	Due Date
Interim Measures Workplan Condition II.F.1.a.	Within ninety (90) calendar days of notification by RA or as otherwise specified by RA
Interim Measures Progress Reports Condition II.F.3.a.	Semi-annually, beginning 180 days from start date specified by the RA**
Interim Measures Report Condition II.F.3.b.	As specified in the CAMP or no later than the date specified in the approved IM Workplan

Schedule	Due Date
<p>Workplan Condition II.G.1.a.</p>	<p>As specified in the CAMP or no later than ninety (90) days after notification by the RA that a CMS Workplan is needed</p>
<p>Draft CMS Report Condition II.G.3.a</p>	<p>As specified in the CAMP or no later than the date specified in the approved CMS Workplan</p>
<p>Final CMS Report Condition II.G.3.a.</p>	<p>Within sixty (60) calendar days of RA's comments on draft CMS Report or as otherwise specified by the RA</p>
<p>Imminent Hazard Report Condition II.J.1. and II.J.2.</p>	<p>Orally within 24 hours; Written within fifteen (15) calendar days</p>
<p>Waste Minimization Certification Condition III</p>	<p>Annually from effective date of permit</p>

The above reports must be signed and certified in accordance with 40 CFR §270.11.

- \* This applies to Workplan execution that requires more than one hundred eighty (180) calendar days.
- \*\* This applies to Workplan execution that requires more than one year.

**APPENDIX E**

**Modification of the Corrective Action  
Schedule of Compliance**

MODIFICATION OF THE CORRECTIVE ACTION SCHEDULE OF COMPLIANCE

- I. If at any time the Regional Administrator determines that modifications of the Corrective Action Schedule of Compliance is necessary, he or she may initiate a modification to the Schedule of Compliance according to this procedure. If the Regional Administrator initiates a modification, he or she shall:
  - A. Notify the Permittee in writing of the proposed modification and the date by which comments on the proposed modification must be received; and
  - B. Publish a notice of the proposed modification in a locally distributed newspaper, mail a notice to all persons on the facility mailing list maintained according to 40 CFR §124.10(c)(viii), and place a notice in the facility's information repository (i.e., a central source of all pertinent documents concerning the remedial action, usually maintained at the facility or some other public place, such as a public library, that is accessible to the public) if one is required.
    1. If the Regional Administrator receives no written comment on the proposed modification, the modification shall become effective five (5) calendar days after the close of the comment period.
    2. If the Regional Administrator receives written comment on the proposed modification, the Regional Administrator shall make a final determination concerning the modification after the end of the comment period.
  - C. Notify the Permittee in writing of the final decision.
    1. If no written comment was received, the Regional Administrator shall notify individuals on the facility mailing list in writing that the

modification has become effective and shall place a copy of the modified Corrective Action Schedule of Compliance in the information repository, if a repository is required for the facility.

2. If written comment was received, the Regional Administrator shall provide notice of the final modification decision in a locally distributed newspaper and place a copy of the modified Corrective Action Schedule of Compliance in the information repository, if a repository is required for the facility.

II. Modifications that are initiated and finalized by the Regional Administrator according to this procedure shall not be subject to administrative appeal.

III. Modifications to the Corrective Action Schedule of Compliance do not constitute a reissuance of the Permit.

**APPENDIX F**

**Waste Minimization Objectives**

## APPENDIX F

### Waste Minimization Certification Objectives

The Waste Minimization Program should include the following elements:

#### 1. Top Management Support

- a. Dated and signed policy describing management support for waste minimization and for implementation of a waste minimization plan.
- b. Description of employee awareness and training programs designed to involve employees in waste minimization planning and implementation to the maximum extent feasible.
- c. Description of how a waste minimization plan has been incorporated into management practices so as to ensure ongoing efforts with respect to product design, capital planning, production operations, and maintenance.

#### 2. Characterization of Waste Generation

Identification of types, amounts, and hazardous constituents of waste streams, with the source and date of generation.

#### 3. Periodic Waste Minimization Assessments

- a. Identification of all points in a process where materials can be prevented from becoming a waste, or can be recycled.
- b. Identification of potential waste reduction and recycling techniques applicable to each waste, with a cost estimate for capital investment and implementation.
- c. Description of technically and economically practical waste reduction/recycling options to be implemented, and a planned schedule for implementation.

- d. Specific performance goals, preferably quantitative, for the source reduction of waste by stream. Whenever possible, goals should be stated as weight of waste generated per standard unit of production, as defined by the generator.

#### 4. Cost Allocation System

- a. Identification of waste management costs for each waste, factoring in liability, transportation, recordkeeping, personnel, pollution control, treatment, disposal, compliance and oversight costs to the extent feasible.
- b. Description of how departments are held accountable for the wastes they generate.
- c. Comparison of waste management costs with costs of potential reduction and recycling techniques applicable to each waste.

#### 5. Technology Transfer

Description of efforts to seek and exchange technical information on waste minimization from other parts of the company, other firms, trade associations, technical assistance programs, and professional consultants.

#### 6. Program Evaluation

- a. Description of types and amounts of hazardous waste reduced or recycled.
- b. Analysis and quantification of progress made relative to each performance goal established and each reduction technique to be implemented.
- c. Amendments to waste minimization plan and explanation.
- d. Explanation and documentation of reduction efforts completed or in progress before development of the waste minimization plan.

- e. Explanation and documentation regarding impediments to hazardous waste reduction specific to the individual facility.

References:

"Draft Guidance to Hazardous Waste Generators on the Elements of a Waste Minimization Program", 54 FR 25056, June 12, 1989.

"Waste Minimization Opportunity Assessment Manual", EPA/625/7-88/003, July 1988.

INTERIM FINAL

REFER TO NEW  
EDITION IN  
SEPARATE DOCUMENT

**CORRECTIVE ACTION MANAGEMENT PLAN**

FOUR  
MARCH '95

**NAVAL STATION MAYPORT  
MAYPORT, FLORIDA**

Contract Task Order No. 028

Contract No. N62467-89-D-0317

**Prepared by:**

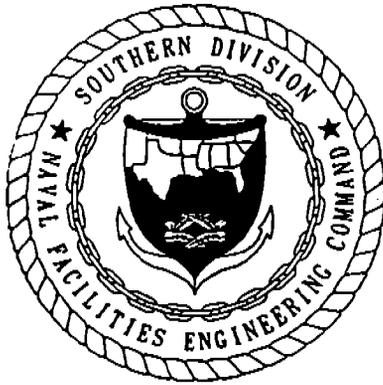
**ABB Environmental Services, Inc.  
2590 Executive Center Circle, East  
Tallahassee, Florida 32301**

**Prepared for:**

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

**David Driggers, Code 1852, Engineer-in-Charge**

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## FOREWORD

In order to meet its mission objectives, the U.S. Navy performs a variety of operations, some requiring the use, handling, storage, or disposal of hazardous materials. Through accidental spills and leaks and conventional methods of past disposal, hazardous materials may have entered the environment in ways unacceptable by today's standards. With growing knowledge of the long-term effects of hazardous materials on the environment, the Department of Defense (DOD) initiated various programs to investigate and remediate conditions related to suspected past releases of hazardous materials at their facilities. The U.S. Navy's program is called the Navy Installation Restoration Program (NIRP, which was previously called the Navy Assessment and Control of Installation Pollutants [NACIP] prior to 1987).

The Resource Conservation and Recovery Act (RCRA) addresses present hazardous material management. RCRA ensures that solid and hazardous wastes are managed in an environmentally sound manner. The law applies primarily to facilities that generate or handle hazardous waste. The RCRA corrective action program is designed to identify and clean up releases of hazardous substances at RCRA-permitted facilities.

The RCRA corrective action program is conducted in three stages.

- The RCRA Facility Assessment (RFA) identifies solid waste management units (SWMUs), evaluates the potential for releases of contaminants, and determines the need for future investigations.
- The RCRA Facility Investigation (RFI) then determines the nature, extent, and fate of contaminant releases.
- The Corrective Measures Study (CMS) identifies and recommends measures to correct the release.

The hazardous waste investigations at Naval Station Mayport are presently being conducted under the RCRA corrective action program. Earlier investigations were conducted at Naval Station Mayport under the Navy's former NACIP program and NIRP following Superfund guidelines. In 1988, in coordination with the U.S. Environmental Protection Agency (USEPA) and the Florida Department of Environmental Regulation (FDER, which became the Florida Department of Environmental

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Protection [FDEP] on July 1, 1993), the hazardous waste investigations were formalized under the RCRA program.

Mayport is conducting investigations and cleanup at the facility by working through the Southern Division, Naval Facilities Engineering Command (SOUTHNAVFAC-ENGCOM). The USEPA and the FDEP oversee the Navy environmental program at Mayport. All aspects of the program are conducted in compliance with State and Federal regulations, as ensured by the participation of these regulatory agencies.

Questions regarding the RCRA program at Naval Station Mayport should be addressed to Mr. David Driggers, Code 1852, at (803) 743-0501.

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### EXECUTIVE SUMMARY

ABB Environmental Services, Inc. (ABB-ES), under the Comprehensive Long-term Environmental Action, Navy (CLEAN) Contract, No. N62467-89-D-0317, is conducting a Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) on behalf of the U.S. Navy at the Naval Station (NAVSTA) Mayport. This investigation is being conducted in accordance with the Hazardous and Solid Waste Amendment (HSWA) of 1984 permit No. FL9-170-024-260, issued by the U.S. Environmental Protection Agency (USEPA) on March 25, 1988, and revised and renewed on June 15, 1993. This document presents the Corrective Action Management Plan (CAMP). The purpose of the CAMP is to update the NAVSTA Mayport corrective action program strategy and schedule in compliance with the HSWA regulations. The CAMP also prioritizes the solid waste management units (SWMUs) and areas of concern (AOCs) listed in the HSWA permit. Appendix A of this document contains anticipated sequences and durations of the major tasks for the NAVSTA Mayport corrective action program.

NAVSTA Mayport is located in Jacksonville, Florida, in northeastern Duval County on the south shore of the confluence of the St. Johns River and the Atlantic Ocean. A RCRA Facility Assessment Visual Site Inspection (RFA/VSI) for NAVSTA Mayport was conducted by the USEPA Region IV in 1989. The RFA/VSI identified 56 SWMUs and 2 AOCs at NAVSTA Mayport. Fifteen of these SWMUs were determined to require no further action. Twenty-three of the remaining SWMUs were determined to require further investigation by conducting RCRA Facility Assessment/Sampling Visits (RFA/SVs) referred to in the current HSWA permit as confirmatory sampling. The remaining 18 SWMUs were determined to require an RFI.

Due to the number of SWMUs, the diversity of their past and/or present operations, and the magnitude of the permit requirements, the USEPA recommended that a phased approach be used to implement the RFI and other corrective action activities at NAVSTA Mayport. This CAMP was included as Appendix F in the RFI Workplan (ABB-ES, October 1991) and was prepared to describe the strategy to implement the RCRA corrective action program at NAVSTA Mayport. This document has been revised in response to new language in the revised HSWA permit.

The purpose of the NAVSTA Mayport CAMP is to outline the strategy for conducting assessments that would be used to confirm and characterize the nature and extent of suspected releases of hazardous substances to the environment at NAVSTA Mayport. The assessments consist of RFIs to characterize the nature and extent of confirmed contamination and confirmatory sampling (RFA/SVs) to confirm the presence of suspected contamination in accordance with the requirements of HSWA permit No. FL9-170-024-260.

The corrective action program at NAVSTA Mayport has been structured to permit a phased approach to assure collection of adequate site characterization data to support the selection of effective corrective measures. The structure of the corrective action program at NAVSTA Mayport is based on the establishment of four SWMU groups. The Corrective Action activities at each group of SWMUs will be implemented in phases. Corrective action investigations during the phases will be composed of multiple investigative rounds to achieve confirmatory sampling or site characterization at each SWMU. The following definitions are used in this CAMP.

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- An SWMU Group is a group of SWMUs and AOCs that are geographically close to each other with common characteristics making implementation of corrective actions more efficient and effective collectively as a group. Four SWMU groups are defined for NAVSTA Mayport: Group I, Group II, Group III, and Group IV. These SWMU groups are described in Section 3.0 of the CAMP.
- A corrective action phase is the entire scope of corrective action activities implemented at an SWMU group over a period of time. Corrective action activities at an SWMU group can include confirmatory sampling, RFIs, interim measures, and corrective measures. Phases are defined in order to permit implementation of corrective action activities at an SWMU group independently of other SWMU groups for flexibility and to prioritize efforts by addressing relatively high risk SWMUs early in the corrective action program. Four corrective action phases are planned: Phase 1 at SWMU Group I; Phase 2 at SWMU Group II; Phase 3 at SWMU Group III; and Phase 4 at SWMU Group IV.
- An investigative round is a sampling and data gathering event that occurs during investigation activities as part of a corrective action phase at an SWMU group. For example, an investigative round will be conducted as a RFA/SV at SWMUs requiring confirmatory sampling. SWMUs in a group that require an RFI in accordance with the HSWA permit or are determined to require an RFI during confirmatory sampling will have investigative rounds of sampling and data gathering to characterize the lateral and vertical extent of contamination. The scope of RFIs will be broad enough to address known data gaps; however, new data often brings to light new questions that must be answered. RFIs may, therefore, require multiple investigative rounds of sampling to assure that significant data gaps are adequately addressed.

The Group I SWMUs are located in the southwest part of NAVSTA Mayport and include former landfills, active dredge material disposal areas, and other individual SWMUs. These SWMUs were incorporated in Group I because of their: (1) proximity to each other, (2) common drainage to the Sherman Creek watershed, (3) similarity of past waste disposal activities, and (4) the potential for similar or related corrective measures. RFI and confirmatory sampling (RFA/SV) assessment activities have been implemented for Group I SWMUs. The results of the RFI at Group I RFI SWMUs are included in Volumes I and II of the Phase I RCRA Facility Investigation Report (final draft) dated November 1992 (ABB-ES, 1992d). The results of confirmatory sampling at Group I RFA/SV SWMUs are included in the RCRA Facility Assessment/Sampling Visit Report (final draft) dated November 1992 (ABB-ES, 1992d).

The Group II SWMUs are located along the northern part of NAVSTA Mayport contiguous with the St. Johns River and include former hazardous and solid waste storage areas, petroleum waste treatment and disposal, and wastewater treatment facilities. The SWMUs were incorporated into Group II because of their: (1) proximity to each other, (2) nearness to the St. Johns River, and (3) potential for similar or related corrective measures. Group II SWMUs were ranked as Priority 2 because of a "moderate perceived risk" for contaminants to be of moderate areal extent and affect moderate volumes of soil and groundwater, and moderate potential for adverse impacts to ecological receptors by soil and groundwater. RFI assessment activities have been implemented for Group II SWMUs.

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Proposed confirmatory sampling (RFA/SV) activities are included in the Group II RFA/SV Workplan (final draft) dated November 1993.

The Group III SWMUs are located in the eastern part of NAVSTA Mayport adjacent to the turning basin and include isolated areas with contamination confined to localized areas. The SWMUs were incorporated into Group III because of their: (1) proximity to the turning basin, the St. Johns River, and the Atlantic Ocean; (2) similarity of surrounding land use; and (3) potential for similar or related corrective measures. Group III SWMUs were ranked as Priority 3 because of a "low perceived risk" for contaminants to be of localized areal extent and affect small volumes of soil and groundwater. In addition, some of the SWMUs in Group III are being addressed by other environmental management, regulatory, and maintenance programs, which will provide data to assist in determining appropriate RCRA investigation actions. RFI and confirmatory sampling (RFA/SV) assessment activities have not been implemented for Group III SWMUs.

The Group IV SWMUs and AOCs are composed of utility networks and system components that span multiple geographic areas at NAVSTA Mayport. None of the SWMUs in Group IV are required in the HSWA permit to have an RFI conducted, but are to have confirmatory sampling (RFA/SV) to assess whether an RFI would be required. Group IV SWMUs were formed because of similarity of investigation and corrective measures which may be required for utilities networked throughout NAVSTA Mayport. In addition, some of the SWMUs in Group IV are being addressed by other environmental management, regulatory, and maintenance programs, which will provide data to assist in determining appropriate RCRA investigative actions. RFA/SV assessment activities have not been implemented for Group IV SWMUs.

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GLOSSARY

ABB-ES AOCs	ABB Environmental Services, Inc. areas of concern
CAMP	Corrective Action Management Plan
CFR	Code of Federal Regulations
CLEAN	Comprehensive Long-term Environmental Action, Navy
CMS	Corrective Measures Study
DOD	Department of Defense
DRMO	Defense Reutilization and Marketing Office
ESI	Expanded Site Inspection
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FDER	Florida Department of Environmental Regulation
HW	hazardous waste
HSWA	Hazardous and Solid Waste Amendments
IAS	Initial Assessment Study
IR	Installation Restoration
JSI	Jacksonville Ship Yard Inc.
NACIP	Naval Assessment and Control of Installation Pollutants
NADEP	Naval Aviation Depot
NAVSTA	Naval Station
NFI	North Florida Ship Yard Inc.
NIRP	Naval Installation Restoration Program
NOTI	Notice of Technical Inadequacy
NPDES	National Pollutant Discharge Elimination System
OWTP	Oily Waste Treatment Plant
PCBs	polychlorinated biphenyls
PWD	Public Works Department
QA/QC	quality assurance/quality control
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RFA/SV	RCRA Facility Assessment/Sampling Visit (confirmatory sampling)
RFA/YSI	RCRA Facility Assessment/Visual Site Inspection
RFI	RCRA Facility Investigation
RPM	Remedial Project Management
SIMA	Ships Intermediate Maintenance Area
SOUTHNAV- FACENGGCOM	Southern Division, Naval Facilities Engineering Command
SWMUS	solid waste management units

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GLOSSARY (Continued)

TRC Technical Review Committee

USEPA U.S. Environmental Protection Agency  
USTs underground storage tanks

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### 1.0 INTRODUCTION

ABB Environmental Services, Inc. (ABB-ES), under the Comprehensive Long-term Environmental Action, Navy (CLEAN) Contract No. N62467-89-D-0317, is conducting a Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) on behalf of the U.S. Navy at the Naval Station (NAVSTA) Mayport. This document presents the Corrective Action Management Plan (CAMP) for NAVSTA Mayport. The CAMP presents the schedule for planning and implementing the Corrective Action Program as required by the Hazardous and Solid Waste Amendment (HSWA) of 1984 part of the RCRA Permit Number FL9-170-024-260 for NAVSTA Mayport, Florida. The HSWA part of the permit was issued by Region IV of the U.S. Environmental Protection Agency (USEPA) on March 25, 1988, and was revised and renewed on June 15, 1993. The current HSWA permit has an expiration date of June 15, 2003.

When approved by the Region IV Administrator of the USEPA, the CAMP contains the enforceable schedule of compliance for submittal of workplans and reports. The CAMP also prioritizes the solid waste management units (SWMUs) and areas of concern (AOCs) listed in the HSWA permit (USEPA, 1993a; Appendix A).

The schedule presented in Appendix A contains the anticipated sequences and durations of the major tasks for the NAVSTA Mayport Corrective Action Program that are required to comply with the HSWA permit. Actual milestone dates may vary depending on unanticipated site conditions, investigative findings, and regulatory requirements. Workplans, which are required by the HSWA permit to accomplish the corrective action program, will also contain operational schedules that may modify and update milestones presented in the current CAMP schedule. Revisions to the current schedule in the CAMP will be made in accordance with Section II.I. and II.K.2. of the HSWA permit. Revisions to the CAMP are subject to approval by the USEPA Region IV Administrator.

The corrective action program at NAVSTA Mayport has been structured to permit a phased approach to assure collection of adequate site characterization data to support the selection of effective corrective measures. The structure of the corrective action program at NAVSTA Mayport is based on the establishment of four SWMU groups. The corrective action activities at each group of SWMUs will be implemented in phases. Corrective action investigations during the phases will be composed of multiple investigative rounds to achieve confirmatory sampling or site characterization at each SWMU. The following definitions are used in this CAMP.

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The CAMP presents the following information for the NAVSTA Mayport corrective action program:

- objectives of the corrective action program;
- background information on NAVSTA Mayport including the HSWA permit history, SWMU and AOC summaries, and the status of the corrective action program;
- grouping and prioritization of SWMUs and AOCs for corrective action; and
- schedule and assumptions to be used in the planning and implementation of corrective action tasks.

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### 2.0 OBJECTIVES

The goal of the NAVSTA Mayport corrective action program is to comply with the HSWA permit by effectively assessing the presence and concentration of suspected or known releases of hazardous waste or hazardous constituents from SWMUs in order to determine corrective measures to prevent adverse effects to human health and the environment. The following objectives support attainment of this goal:

- measure background contaminants and their concentrations to ensure the adequacy of investigative data and to appropriately identify contaminants of concern such as hazardous wastes or hazardous constituents that potentially emanate from SWMUs,
- conduct confirmatory sampling at SWMUs with suspected releases of hazardous wastes or hazardous constituents to the environment,
- characterize the lateral and vertical extent of hazardous waste or hazardous constituents that have been released from an SWMU,
- estimate risks to human health and the environment posed by the characterized extent of hazardous waste or hazardous constituents released from SWMUs,
- implement interim measures where necessary to mitigate potential risks posed by known releases of hazardous waste or hazardous constituents from SWMUs,
- conduct corrective measures studies at SWMUs determined to require corrective measures to reduce adverse risks posed by the hazardous waste or hazardous constituents, and
- implement approved corrective measures remedies.

To achieve these objectives, the CAMP provides the strategy and schedule to implement the corrective action program.

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### 3.0 BACKGROUND

HSWA Permit History. Table 3-1 provides a chronology of the RCRA investigations and related activities conducted at NAVSTA Mayport up to the present HSWA permit. An HSWA permit (number FL9-170-024-260) was issued by the USEPA Region IV Administrator to NAVSTA Mayport on March 25, 1988, with an expiration date of March 25, 1993 (USEPA, 1988). This HSWA permit combined with the State of Florida hazardous waste storage permit (number H016-118598 issued on March 5, 1988) constituted a full RCRA permit. The HSWA permit identified 17 SWMUs that required corrective actions for known releases of hazardous wastes or hazardous constituents to the environment.

A RCRA Facility Assessment/Visual Site Inspection (RFA/VSI) for NAVSTA Mayport was conducted by Region IV USEPA between June 26 and 29, 1989 (A.T. Kearny, 1989). The RFA/VSI identified 56 SWMUs and two AOCs at the NAVSTA Mayport facility. Fifteen of these SWMUs were determined not to require further action. Twenty-three of the remaining SWMUs were determined to require further investigation (confirmatory sampling). The remaining 18 SWMUs were determined to require an RFI.

Of these 18 SWMUs, 17 had been previously identified in the HSWA permit. The additional SWMU, Building 1600 Blasting Area, was identified during the RFA/VSI by the USEPA and determined to require an RFI. The Navy prepared a final draft RFI Workplan (C.E. Environmental, 1989) in response to the HSWA permit requirements addressing the 17 permitted SWMUs. The final draft RFI Workplan was reviewed by applicable regulatory agencies and their comments were received by the Navy on May 6, 1991 (USEPA, 1991a). The USEPA reported in their comments on the final draft RFI Workplan that they would address the remaining 39 SWMUs identified during the RFA/VSI under revised permit conditions at a later date. The final draft RFI Workplan was revised in response to regulatory comments, the Building 1600 Blasting Area was added to the RFI, and a CAMP was included. The RFI CAMP provided the initial strategy for corrective action implementation and prioritization of SWMUs. The CAMP also included a schedule for implementation of corrective action tasks. The final RFI Workplan and CAMP were approved by the USEPA on October 24, 1991 (USEPA, 1991c).

The CAMP contained in the final RFI Workplan grouped the 56 SWMUs into four groups (Figure 3-1). Three of these groups were defined geographically by the proximity of the SWMUs to each other and to site features such as wetlands, rivers, and land use patterns. The fourth group contains SWMUs and AOCs associated with utility networks and appurtenances located within multiple SWMU groups and are being actively managed under other State or Federal environmental programs for underground storage tanks (UST) (e.g., Chapters 17-761 and 17-770, Florida Administrative Code [FAC], and others) or National Pollutant Discharge Elimination System (NPDES) permits (point source and stormwater discharges). The RFI CAMP also prioritized the SWMUs according to the perceived relative risks posed by the SWMUs based on the existing knowledge of the sites and their past releases. The highest priority group of SWMUs was Group I. The Groups II, III, and IV were assigned sequentially lower priorities.

HSWA permit FL9-170-024-260 was revised and renewed on June 15, 1993. This CAMP is a revision of the CAMP approved by USEPA on October 24, 1991, and reflects changes made in response to the language of the revised HSWA permit.