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1998 334-02

**ACTION MEMORANDUM  
DEBRIS REMOVAL  
SITE 85  
MCAS CHERRY POINT, NORTH CAROLINA**

Prepared for:

**DEPARTMENT OF THE NAVY**  
Contract No. N62470-93-D-3032

Atlantic Division  
Naval Facilities Engineering Command  
6500 Hampton Boulevard  
Building A (South East Wing) 3rd Floor  
Norfolk, VA 23508

Prepared by:



**OHM Remediation  
Services Corp.**

A member of The IT Group

5445 Triangle Parkway, Suite 400  
Norcross, GA 30092

November 1998  
Delivery Order No. 176  
OHM Project No. 920530

## DECLARATION

### SITE 85

Marine Corps Air Station  
Cherry Point, North Carolina

## STATEMENT OF BASIS AND PURPOSE

This decision document presents the selected removal action for Site 85 at the Marine Corps Air Station (MCAS) Cherry Point, North Carolina. The removal action was chosen in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), as amended by the Superfund Amendments and Reauthorization Act (SARA), and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). This decision is based on the Administrative Record of the Site.

The Department of the Navy (DON) and the Marine Corps have obtained concurrence from the State of North Carolina Department of Environment and Natural Resources (NCDENR) and the United States Environmental Protection Agency (USEPA) Region IV on the selected removal action.

## ASSESSMENT OF THE SITE

Actual or threatened releases of hazardous substances from Site 85 if not addressed by implementing the action removal may present a potential threat to public health, welfare, or the environment. Debris that was removed had the potential for containing chemicals in the drum carcasses.

## DESCRIPTION OF THE SELECTED REMOVAL ACTION

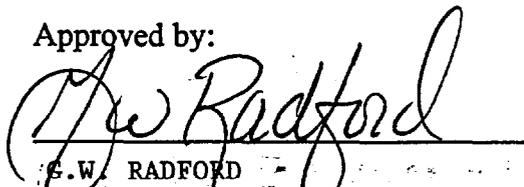
Site 85 is located adjacent to OU2. Separate investigations have been conducted for other sites within OU2 at MCAS Cherry Point in accordance with CERCLA. Therefore, this Action Memorandum applies only to debris at Site 85. The selected removal action is removal of surface debris and site restoration.

## STATUTORY DETERMINATIONS

The selected removal action is protective of human health and the environment, and complies with Federal and State requirements that are applicable to the remedial action.

Conditions at the site meet the NCP Section 300.415 (b)(2) criteria for removal. This debris removal action memorandum is recommended for approval.

Approved by:



E.W. RADFORD  
ENVIRONMENTAL AFFAIRS OFFICER  
BY DIRECTION

14 DEC 1998

Date

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DEBRIS REMOVAL  
SITE 85  
MCAS CHERRY POINT, NORTH CAROLINA**

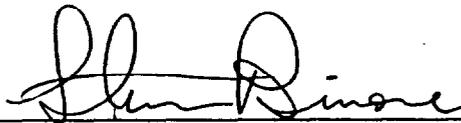
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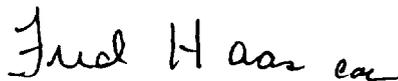
Prepared by

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Steven Bivone  
Project Manager



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Fred Haas  
Sr. Project Engineer

November 1998  
OHM Project No. 920530  
Delivery Order 0176

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## **1.0 PURPOSE**

The purpose of this Action Memorandum is to document the time critical removal action described herein for the Site 85 located at Marine Corps Air Station (MCAS) Cherry Point, North Carolina.

The removal action consisted of surface debris removal followed by site restoration.

This Action Memorandum follows the suggested format and guidance contained in the U.S. Environmental Protection Agency (USEPA) Action Memorandum Guidance Document (EPA/540/P-90/004).

## **2.0 SITE CONDITIONS AND BACKGROUND**

### **2.1 SITE DESCRIPTION**

MCAS Cherry Point is a military installation located in southeastern Craven County, North Carolina, just north of the town of Havelock, North Carolina. The station covers approximately 11,485 acres on a peninsular north of Core and Bogue Sounds and south of the Neuse River. The general location of the Air Station is shown in Figure 1.

The MCAS Cherry Point mission is to maintain and support facilities, services, and material of a Marine Aircraft Wing, or units thereof, and other activities and units as designated by the Commandant of the Marine Corps in coordination with the Chief of Naval Operation.

Occupants at the Air Station include:

- Second Marine Aircraft Wing
- Naval Aviation Depot
- Combat Service Support Detachment 21 of the Second Force Service Support Group
- Naval Hospital
- Dental Clinic
- Naval Air Maintenance Training Group Detachment
- Defense Reutilization and Marketing Office
- Training Facilities for the Fleet Marine Force Atlantic Aviation Units

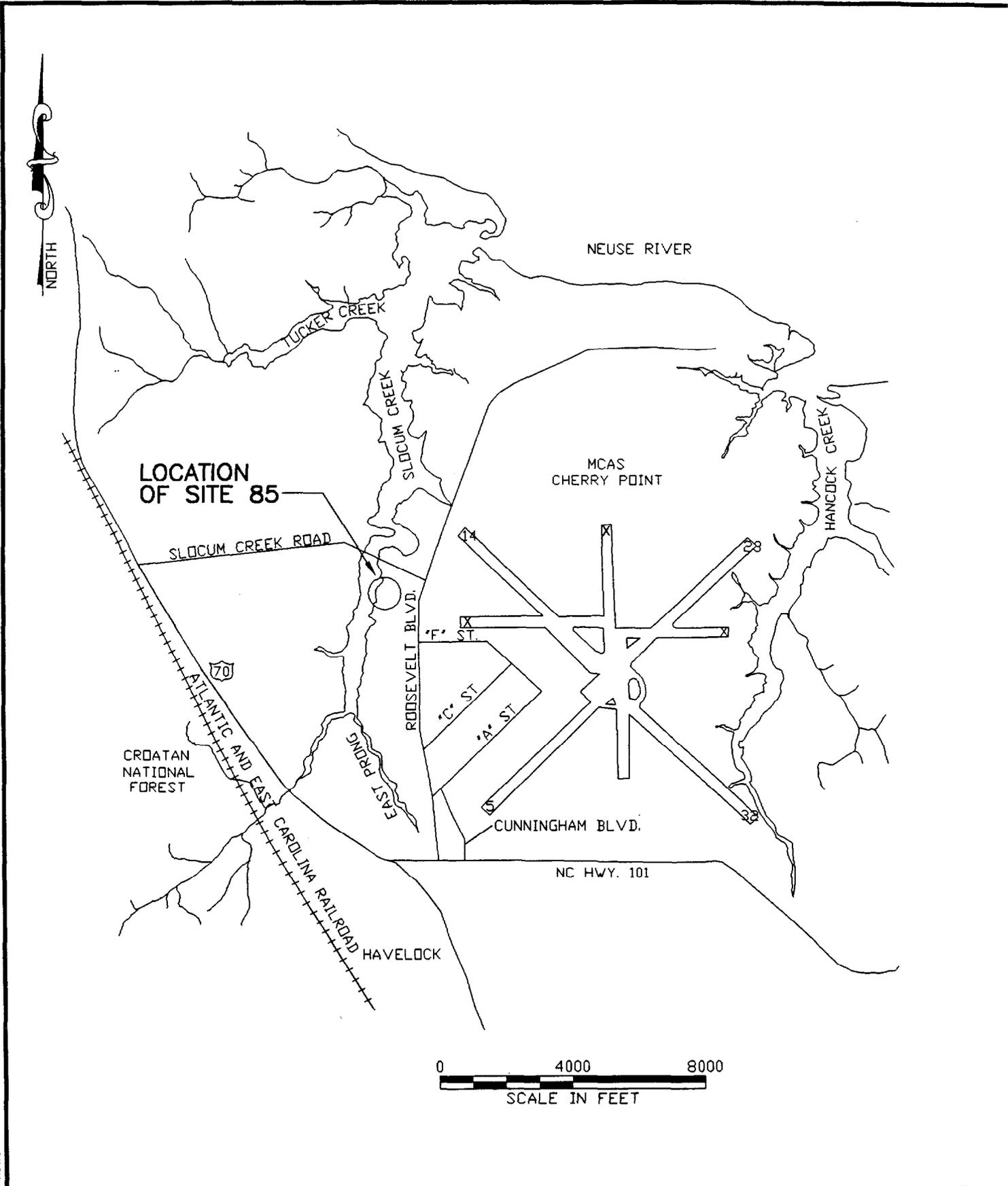
The MCAS was commissioned in 1942. Continuing construction in 1943 added a massive aircraft assembly and repair shop, which later became the NADEP. During the 1950s and 1960s, the size of the Air Station increased from 7,582 acres to more than 11,000 acres as a result of land acquisitions. During the 1970s, commercial and residential development of the

surrounding area grew substantially. In 1980, the City of Havelock annexed MCAS Cherry Point.

Site 85 - Known as the old landfill disposal area is located west of the Auto Hobby Shop as shown in Figure 2. It covers a triangular shaped area measuring approximately 237 feet by 140 feet by 137 feet.

### **2.1.1 RI Activities**

No RI activities have been performed for Site 85.



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CHECKED BY	-	-
APPROVED BY	-	-
REV. 1	SHEET # -	PROJECT NO. 20530

**FIGURE 1**  
**VICINITY MAP**  
**SITE 85**  
  
 PREPARED FOR  
**MCAS CHERRY POINT, N.C.**  
**SITE 85**

## **2.2 PHYSICAL LOCATION AND CHARACTERISTICS**

Site 85 is located in the west/central portion of the Air Station and is next to the West End of the Auto Hobby Shop as shown in Figure 2.

Site 85 has exposed debris which includes steel drums (55 gallons), steel pails (5 - 15 gallons), old cars, concrete, office equipment, rubber tires, spectator stands, fire hoses, runway matting, pipes and other various items. Most of the debris was exposed and visible on land surface.

During the site visit conducted in early March 1998, it became evident that several areas of the site contained numerous items of metallic debris (including drums) which were scattered throughout the areas. The Base residents had trespassed into the area and children used the area (site) as a play area, (note: one swing rope was found hanging from a tree). As a result, this project has been divided into four tasks:

- Task I – Secure Site with a fence (an emergency response)
- Task II - Debris Gathering and Removal
- Task III - Drum Removal
- Task IV – Site Restoration

### **2.2.1 Release or Threatened Release into the Environment of a Hazardous Substance Or Pollutant or Contaminant**

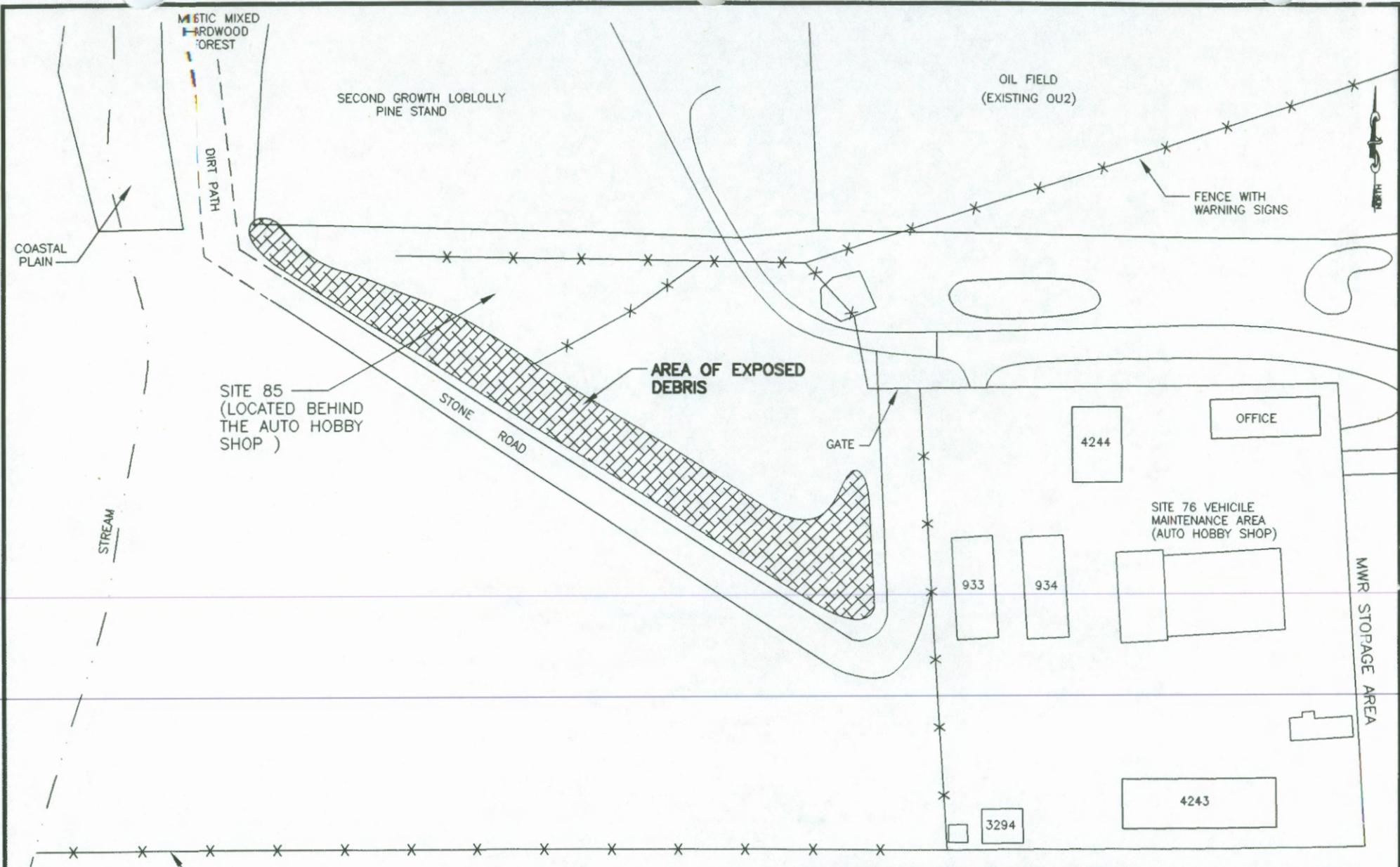
In accordance with Section 121(d)(1) of CERCLA, remedial actions must attain a degree of clean up which assures protection of human health and the environment. Remedial goals have been based on meeting an Applicable or Relevant and Appropriate Requirement (ARAR), or a site-specific risk based action level.

The remedial objective for Site 85 is to remove and dispose of surficial debris, which could pose a physical hazard to persons entering the site, and control any potential releases. The key to this objective was to insure that the drums in the debris area were handled and discarded of in an environmental sound manner. This surficial debris existed at locations as depicted in Figure 3.

### **2.2.2 National Priorities List Status**

In 1989, the Navy entered into a RCRA Administrative Order on Consent with the USEPA. MCAS Cherry Point was also scored and ranked by the USEPA to be included on the National Priorities List (NPL) as a CERCLA Superfund site. MCAS Cherry Point scored sufficiently and was formally included as a Superfund site on December 16, 1994. As such,

the ongoing Installation Restoration (IR) investigations at MCAS Cherry Point are being conducted to meet the requirements of both RCRA and CERCLA. A Federal Facilities Agreement (FFA) between the USEPA, North Carolina, and the Navy is pending. This action consists of surface debris removal and site restoration.

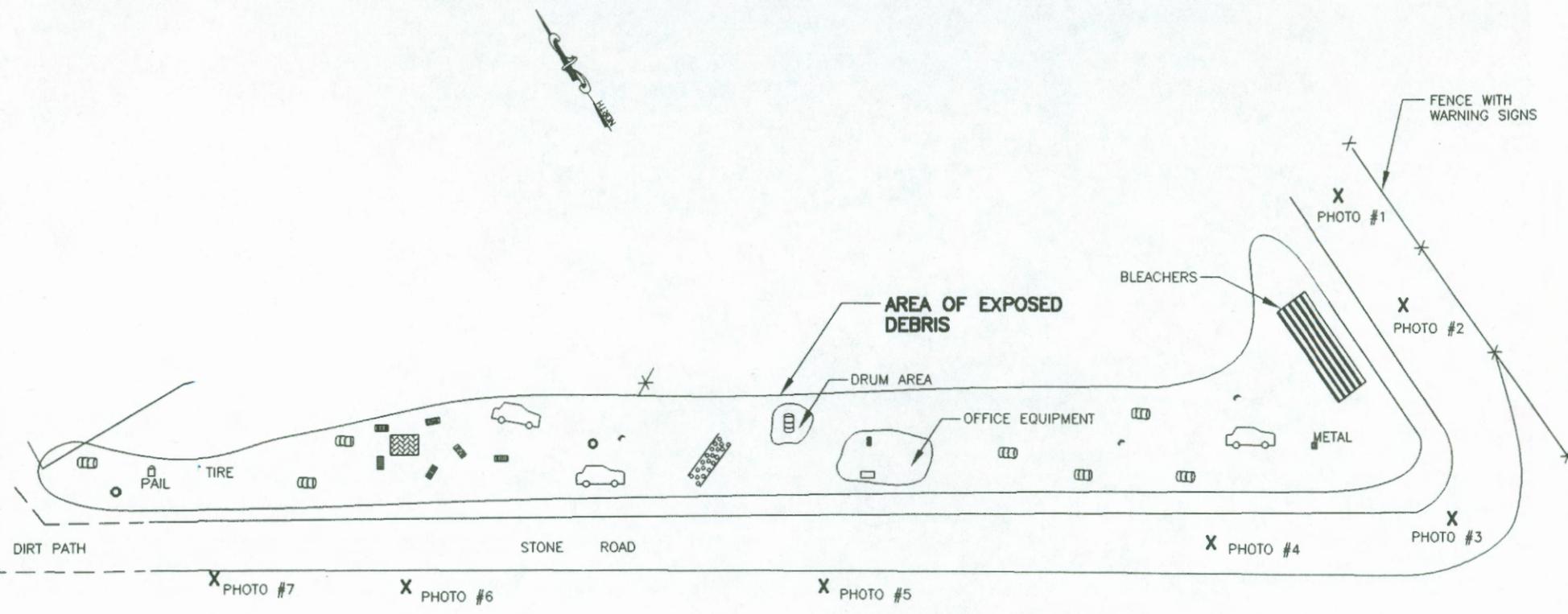


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FIGURE 2  
 SITE PLAN

PREPARED FOR  
 MCAS CHERRY POINT, N.C.  
 SITE 85



**KEY**

	DRUM
	CAR
	SCRAP METAL DEBRIS
	TIRE

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FIGURE 3  
 DETAIL OF DEBRIS AREA

PREPARED FOR  
 MCAS CHERRY POINT, N.C.  
 SITE 85

## 2.3 OTHER ACTIONS TO DATE

### 2.3.1 Previous Actions

The site was secured with a fence as an emergency response in October 1997 to eliminate access to the area and possible exposure from unknown materials and releases from exposed drums.

Debris was removed from Site 85 in August 1998.

During the site visit conducted in early March 1998, it became evident that several areas of Site 85 contained numerous items of metallic debris (including drums) which were scattered throughout the areas. As a result, key remedial tasks were defined in a memo dated March 12, 1998:

1. Prepare Work Plan, Health and Safety Plan, and Transportation & Disposal Plan
2. Mobilize equipment and personnel utilizing existing staff at Cherry Point
3. Relocate existing fencing for site access
4. Clear and stockpile trees that are already cut out of the area
5. Remove only trees that are blocking access for debris removal
6. Where possible, spread the existing pile of trees to eliminate future forest fire hazards; if an insufficient area exists for spreading trees or if the stock pile spreading will impact the wetlands area, transport and dispose of the stock piled trees to another area for natural disposal
7. Remove debris without over excavating
8. Field screen debris for volatile organic vapors using hand-held instruments
9. Stage and visually segregate materials for recycling; either direct load trucks or fill roll-offs for disposal
10. Prepare Transportation and Disposal of material
11. Re-grade site
12. Site inspection for final punch list
13. Prepare Action Memo and Close Out Report

The remedial goal for Site 85 was to remove and dispose of surficial debris which could pose a physical hazard to persons entering the site and to insure that the drums in the debris area are handled and discarded of in an environmental sound manner. The surficial debris existed at locations as depicted in Figure 3.

## **2.4 STATE AND LOCAL AUTHORITIES' ROLES**

Site 85 is located on property owned and operated by the Federal government. Since MCAS Cherry Point is listed in the NPL, all work is being conducted to meet the requirements of RCRA and CERCLA where the USEPA and NCDENR are vital participants in the process. The nature and extent of contamination has been under investigation since 1981. The work at Site 85 was conducted under several environmental programs according to regulatory requirements in effect at the time. It is anticipated that the USEPA and the NCDENR will remain actively involved in the process.

## **3.0 THREATS TO PUBLIC HEALTH OR WELFARE OR THE ENVIRONMENT, AND STATUTORY AND REGULATORY AUTHORITIES**

The Base residents had trespassed onto the site and there was evidence that children had used the site as a play area.

Slocum Creek supports ecological receptors. Therefore, due to the migration of potential contaminants from soil erosion, the potential exists for ecological receptors to be exposed to the contaminants from Site 85. However, the drums on site did not contain chemicals and the site was restored to minimize erosion.

## **4.0 ENDANGERMENT DETERMINATION**

Actual or threatened releases of hazardous substances from Site 85, if not addressed by implementing the time critical removals action selected in this Action Memorandum, potentially could endanger public health, welfare, or the environment. Removing surface debris will minimize public health hazards. The restoration of the site and implementation of erosion control measures will reduce the risk of contaminate migration to sensitive ecological receptors.

## **5.0 PROPOSED ACTIONS AND ESTIMATED COSTS**

The Remedial Action Work Plan (RAWP) presented OHM Remediation Services Corp.'s (OHM) approach and implementation of tasks under Delivery Order No. 0176 of Navy Atlantic Division (LANTDIV) Contract N62470-93-D-3032. Several other plans were developed for this delivery order and were complementary components to this work plan.

They included:

- Site Safety Plan (SSP)
- Environmental Protection Plan (EPP)
- Sampling and Analysis Plan (SAP)

This RAWP identified and described how OHM will implement the major tasks encompassing the remedial action for Site 85 in conformance with the contract requirements.

It included the following sections:

- Section 2.0 Remedial Action Objectives
- Section 3.0 Environmental Protection Plan
- Section 4.0 Mobilization
- Section 5.0 Debris Removal
- Section 6.0 Transportation and Disposal Plan
- Section 7.0 Site Restoration
- Section 8.0 Demobilization/Final Report

The cost for debris removal was less than \$50,000.

## **5.1 ACTION**

During the site visit, conducted in early March 1998, it became evident that several areas of Site 85 contained numerous items of metallic debris (including drums) which were scattered throughout the areas. As a result, four tasks were defined:

- Task I – Secure Site
- Task II - Debris Gathering and Removal
- Task III - Drum Removal
- Task IV – Site Restoration

### **5.1.1 Action Description**

An extensive reconnaissance of the site was performed prior to debris gathering. Trees that were blocking access to debris were removed. Debris was removed without over excavating. A forklift was employed to extract the heavier pieces of metallic debris from the wooded areas of the site. Loose soil or non-metallic material was removed from the debris by shaking. Debris was loaded into rolloffs for transportation to the disposal facility.

For drum removal, OHM mobilized a trackhoe to the project site to provide access for the removal of trees and various under growth. Trees were removed and limbs and stumps cut off. Limbs and stumps were routed to the stockpile for disposal.

Prior to moving the drums, field screening for volatile organic vapors using hand-held instruments was performed. No residuals were found inside any of the drums. The drums were staged for disposal.

Ohm completed the characterization of the waste streams by visual conformation that no waste matrix materials existed in the drum carcasses or any other clean debris. Disposal analysis was not required for the waste materials generated from the remedial activities. All debris material was free of any hazardous or special waste.

The amount of waste and debris that requires transportation and disposal was estimated as follows:

- 30 - 40 cubic yards of metal and debris for off-site disposal
- 60 - 80 cubic yards of tree for disposal at the Base Landfill

OHM assigned a Transportation and Disposal (T&D) Coordinator to this project acting as a single point-of-contact for all waste management activities. OHM prepared (or oversaw the preparation of) all paperwork associated with off-site disposal for review and signature by LANTDIV and MCAS representatives. This included TSDF waste profiles, hazardous waste manifests, land disposal restriction forms, labels and all other paperwork.

The quality control program for this project was instituted to ensure that the end result of this project was in compliance with the contract specifications. Quality control meetings were scheduled with the ROICC on an as-needed basis. Quality control reports were developed during the remedial actions and were forwarded to the COTR, the ROICC, and OHM's Project Manager.

Stone and Webster Engineering Corporation (Stone & Webster), a team subcontractor under OHM's RAC Contract No. N62470-93-D-3032, provided the on-site Construction Quality Control (CQC) representative for this project. Quality control involvement for this project did not require full time coverage for a CQC representative. When the CQC representative was not available, his duties were assigned to the superintendent.

Quality control on the Contractor's T&D Plan and the site-specific Health and Safety Plan were provided by Ohm's regional staff located in Norcross, Georgia.

No construction activities were required for this project.

**5.1.2 Contribution to Remedial Performance**

The remedial goal for Site 85 was to remove and dispose of surficial debris which could pose a physical hazard to persons entering the site and to insure that the drums in the debris area are handled and discarded of in an environmental sound manner. The surficial debris existed at locations as depicted in Figure 3.

**5.1.3 Description to Alternate Technologies**

No alternate technologies were evaluated. This action was for debris removal only for safety and exposure mitigation. Removal of the debris was considered the most feasible action and response to the situation.

**5.1.4 EE/CA**

No EE/CA has been prepared for Site 85. It was not needed due to the straight forward need for debris removal. A following investigation will address the media at the site and determine if any further action is required.

**5.1.5 Applicable or Relevant and Appropriate Requirements (ARARS)**

The remedial action for Site 85, under CERCLA Section 121(d) must comply with Federal and State environmental laws that are either applicable or relevant and appropriate. Applicable requirements are those standards, criteria, or limitations promulgated under Federal or State law that specifically address a hazardous substance, pollutant, contaminant, remedial action, location, or circumstance at a CERCLA site.

The Federal and State ARARs are identified in Table 5.1.5.1, Table 5.1.5.2, and Table 5.1.5.3.

<b>Table 5.1.5.1                      Potential Contaminant – Specific ARARs                      MCAS Cherry Point, North Carolina</b>		
<b>Citation</b>	<b>Description</b>	<b>Category</b>
<i>Resource Conservation and Recovery Act</i>		
40 CFR 264, Subpart F Releases from Solid Waste Management Units	Establishes groundwater protection standards	A

- A = Applicable
- R&A = Relevant and appropriate
- TBC = To-be-considered criteria

**Table 5.1.5.2  
Potential Location – Specific ARARs  
MCAS Cherry Point, North Carolina**

<b>Citation</b>	<b>Description</b>	<b>Category</b>
Executive Order 11990 Wetlands Protection Policy	Requires Federal agencies to take action to minimize the destruction, loss, or degradation of wetlands and to enhance their natural and beneficial values. Wetlands are located along Slocum Creek and Turkey Gut.	TBC
Endangered Species Act (16 USC 1531 / 40 CFR 502)	Requires Federal agencies to ensure that any action authorized funded, or carried out by the agency is not likely to jeopardize the continued existence of any endangered or threatened species or adversely affect its critical habitat.	R&A
Fish and Wildlife Coordination Act (16 USC 661)	Requires Federal agencies to consult with appropriate state agency for the modification of any body of water.	R&A
Fish and Wildlife Improvement Act (16 USC 742a) and Fish and Wildlife Conservation Act (16 USC 2901)	Provide for consideration of the impacts on wetlands and protected habitats. Wetlands are located along Slocum Creek and Turkey Gut.	R&A
North Carolina Coastal Area Management Act (15A NCAC 7)	Provides guidelines for areas of environmental concern, including estuarine waters and estuarine shorelines	R&A

R&A = Relevant and Appropriate  
TBC = To be considered criteria

<b>Table 5.1.5.3</b> <b>Potential Contaminant – Specific ARARs</b> <b>MCAS Cherry Point, North Carolina</b>		
<b>Citation</b>	<b>Description</b>	<b>Category</b>
<b><i>Resource Conservation and Recovery Act</i></b>		
40 CFR 261 Identification and Listing of Hazardous Waste	Characterization of hazardous waste	A
40 CFR 262 Standards Applicable to Generators of Hazardous Waste	General requirements managing hazardous wastes and manifest requirements	A
40 CFR 263 Standards Applicable to Transporters of Hazardous Waste	Requirements for offsite transportation of hazardous waste	A
40 CFR 264 Standards for Owners and Operators of Hazardous Waste Treatment, Storage and Disposal Facilities	Establishes minimum national standards that define acceptable management of hazardous waste	A
40 CFR 268 Land Disposal Restrictions	Certain classes of hazardous waste are restricted from land disposal without acceptable treatment	A
<b><i>Other Federal Acts and Requirements</i></b>		
49 CFR 107 and 171-179 Department of Transportation Rules for Hazardous Materials Transport	Regulates the offsite transportation of hazardous materials (including hazardous and solid waste)	A
20 CFR 1910, 1926, and 1904 Occupational Safety and Health Administration	Regulates occupational safety and health requirements for workers engaged in remedial activities	A
<b><i>State of North Carolina Regulations</i></b>		
15A NCAC 13A Solid Waste Management Regulations	Establishes standards for management of solid (nonhazardous) waste	A
15A NCAC 13B Hazardous Waste Management Regulations	Establishes standards for management of hazardous waste	A
15A NCAC 2H Stormwater Runoff Disposal	Regulates pollutants associated with stormwater runoff	A
15A NCAC 4 Erosion and Sedimentation Control	Establishes standards to control damage from land disturbing activities	A

A = Applicable  
R&A = Relevant and appropriate  
TBC = To-be-considered criteria

## **6.0 EXPECTED CHANGE IN THE SITUATION SHOULD THE ACTION BE DELAYED OR NOT TAKEN**

If the time critical removal actions had not been implemented the following potential concerns would exist:

- 1.) The potential for chemical release if the drums were found to have materials.
- 2.) The potential for surface water, soil, and ground water contamination to occur due to erosion.

- 3.) The potential for exposure to Base residents from released materials.
- 4.) Safety hazards presented by the debris to Base residents.

## **7.0 OUTSTANDING POLICY ISSUES AND ENFORCEMENT**

There are no known policy or enforcement actions being implemented at this time for Site 85.

## **8.0 REMEDIAL ACTION RESULTS**

Prior to removing the drums, field screening for volatile organic vapors using hand-held instruments was performed. No residuals were found inside any of the drums. The drums were staged for disposal as debris.

OHM completed the characterization of the waste streams by visual conformation that no waste matrix material exists in the drum carcasses or any other clean debris. Disposal analysis was not required for the waste materials generated from the remedial activities. All debris material was free of any hazardous or special waste.

Upon completion of the field construction activities, disturbed areas were restored (if necessary) by planting trees and wetland seeds. Any trees or other landscape features damaged by equipment were restored by the trimming of damaged limbs and application of tree dressing. Damaged trees, which could not be restored, were felled, limbed and left on-site. Soil was placed and compacted around any root systems exposed during excavation activities.

OHM personnel periodically have checked the erosion control measures. Once restoration of vegetation has occurred, the erosion and sedimentation control measures will be removed.

## **8.1 CHRONOLGY OF EVENTS OF RAR**

An abbreviated schedule of project activities and events is listed below:

- Site secured with fence in October 1997.
- Request for proposal for Site 85 activities under LANTDIV Contract N62470-93-D-3032, Delivery Order 0176 was received on March 11, 1998.
- Site 85 proposal submitted on February 25, 1998.
- Site 85 Work Plan submitted on June 8, 1998.
- Review comments completed by July 2, 1998.

- Project Mobilization started on August 10, 1998 (on-site personnel was used for this project)
- Debris Removal was conducted from August 11, 1998 to August 20, 1998.
- T&D of Debris was shipped on August 19, 1998.
- Site Restoration occurred at the end of August.
- Project Demobilization was completed by August 21, 1998.

Points of contact for this project are provided below:

### NOTIFICATION OF BASE PERSONNEL

<b>Responsibility</b>	<b>Contact</b>	<b>Telephone No.</b>
EAD (Waters Generated)	Glen Hartzog	252-466-4421
Base Fire Department	General POC	252-466-4789
Supervisory Utility Operator	Gary Kornegay	252-466-2520
Base Utility Director	JoAnna Curlin	252-466-5534
LANTDIV	Lance Laughmiller	757-322-4811
Hospital	Carteret General	252-247-1616
Environmental Affairs Department	Bill Powers	252-466-4598
<b><i>OHM Personnel</i></b>		
Project Manager	Steven Bivone	770-459-7637
Site Supervisor	Tom Cherrix	252-444-8302
Project Accountant	Jim Climer	252-444-8302
Technical Support	Matt Grostick	252-444-8302

### 8.2 PERFORMANCE STANDARDS AND CONSTRUCTION QUALITY CONTROL

No waivers or field changes were requested during this project. The working attitude within the work group and well-scoped project combined for a successful operation. The project was completed on a timely basis and within budget

## **8.3 CONSTRUCTION ACTIVITIES**

### **8.3.1 Mobilization**

The long-term OHM crew for Cherry Point was used for this project. The project was started on August 11, 1998.

### **8.3.2 Site Preparation**

An extensive reconnaissance of the site was performed prior to debris gathering. Trees that were blocking access to debris were removed. Debris was removed without over excavating. A forklift was employed to extract the heavier pieces of metallic debris from the wooded areas of the site. Loose soil or non-metallic material was removed from the debris by shaking. Debris was loaded into roll-off bins or trucks for transportation to the disposal facility.

### **8.3.3 Drum Removal**

For drum removal, OHM mobilized a trackhoe to the project site to provide access for the removal of trees and various under growth. Trees were removed and limbs and stumps cut off. Limbs and stumps were routed to the stockpile for disposal.

Prior to removing the drums, field screening for volatile organic vapors using hand-held instruments was performed. No residuals were found inside any of the drums. The drums were staged for disposal as debris.

### **8.3.4 Transportation and Disposal**

OHM completed the characterization of the waste streams by visual conformation that no waste matrix material exists in the drum carcasses or any other clean debris. Disposal analysis was not required for the waste materials generated from the remedial activities. All debris material was free of any hazardous or special waste.

The amount of waste and debris that requires transportation and disposal was as follows:

- 30 - 40 cubic yards of metal and debris for non-regulated off-site disposal
- 60 - 80 cubic yards of tree waste for disposal at the Base Landfill

OHM assigned a Transportation and Disposal (T&D) Coordinator to this project acting as a single point-of-contact for all waste management activities. OHM prepared (or oversaw the preparation of) all paperwork associated with off-site disposal. The two off-site waste shipment-tracking documents are presented in *Appendix A*.

### **8.3.5 Restoration**

Upon completion of the field construction activities, disturbed areas were restored. Damaged trees were trimmed if possible. Soil was placed and compacted around any root systems exposed during excavation activities. The site was secured.

### **8.3.6 Construction Photographic Log**

A photographic log is attached as *Appendix B* to this report.

## **8.4 OPERATION AND MAINTENANCE**

No Operation and Maintenance period has been established for this project. OHM personnel periodically checked the erosion control measures. Once restoration of vegetation has occurred, the erosion and sedimentation control measures will be removed.

## **9.0 REFERENCES**

*Report on Hydrogeology, Contaminants Detected, and Corrective Action/Recommendations for the Former Sludge Impoundments*, January 1987 (NUS Corporation)

*Remedial Investigation Interim Report*, October 1988 (NUS Corporation)

*Water Resources Investigations Report 89-615*, 1990 (U.S. Geological Survey [USGS])

*Water Resources Investigations Report 89-4200*, 1990 (USGS)

*RCRA Facility Investigations Report (RFI) – Units 5, 10, 16 and 17*; May 1991 (NUS Corporation)

*Evaluation and Recommendations – Unit 10 Former Sludge Impoundment Area*, December 1991 (Halliburton NUS Corporation)

*RCRA Facility Investigation and Corrective Measures Study Final Technical Direction Memorandum (TDM) for Units 10 and 16*, November 1992 (Halliburton NUS Corporation)

*RCRA Facilities Investigation (RFI) – 21 Units*, June 1993 (Halliburton NUS Corporation)

*Phase II Technical Direction Memorandum*, June 1994 (Halliburton NUS Corporation)

*Remedial Investigation (RI) Report*, April 1997 (Brown and Root Environmental)

*Interim Measures Record of Decision for Operable Unit 2*, September 1997, (Brown & Root Environmental)

*Remedial Action Work Plan, Debris Removal Action*, May 1998, (OHM Remediation Services Corp.)

# **Appendix A**

## **Waste Shipment Tracking Documents (Non-Regulated Waste)**

### **Debris Removal at Site 85**

### East Carolina Environmental, Inc.

1922 Republican Road  
Asheboro, North Carolina 27105  
919/348-3372 Fax 919/348-6392

Case # **9385** Republic

## WASTE SHIPMENT TRACKING DOCUMENT

Generator: Cherry Point Street Address: PSC Box 80000  
City: Cherry Point County: Carteret State: N.C.

Contact Name: JAN RAYNE Phone No.: 919-466-5391

Description of Waste: NON-Regulated Debris

Quantity Shipped: \_\_\_\_\_

Certification: I certify that no regulated hazardous waste or infectious waste was knowingly introduced into the waste while in my custody.

Generator's Signature: [Signature] Date: 8/19/98

Transporter (No. 1): TIM J. [Signature] Street Address: 1555 Hill Road

Contact Name: [Signature] Phone Number: 910-485-3270

Certification: I certify that no regulated hazardous waste or infectious waste was knowingly introduced into the waste while in my custody.

Carrier's Signature: [Signature] Date: 8/19/98

Other Handlers (Transfer Facility): \_\_\_\_\_ Street Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Phone No.: \_\_\_\_\_

Certification: I certify that no regulated hazardous waste or infectious waste was knowingly introduced into the waste while in my custody.

Quantity Received: \_\_\_\_\_ Quantity Shipped: \_\_\_\_\_

Carrier's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Transporter (No. 2) \_\_\_\_\_ Street Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Phone No.: \_\_\_\_\_

Certification: I certify that no regulated hazardous waste or infectious waste was knowingly introduced into the waste while in my custody.

Carrier's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Facility: East Carolina Landfill Street Address: 2500 [Signature]

Contact Name: JACK CRAWFORD Phone No.: 252-942-1222

Description of Waste: NON-Regulated

Quantity Received: 852 Quantity Shipped: \_\_\_\_\_

Carrier's Signature: [Signature] Date: 8/19/98

AUG-17-98 MON 10:12

OHM CORP ERCS GOVT SERVS FAX NO. 4047297200

P.04

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### East Carolina Environmental, Inc.

1922 Republican Road  
Arlander, North Carolina 27805  
919/348-3372 Fax 919/348-3395

Code: **9385** Republic

### WASTE SHIPMENT TRACKING DOCUMENT

Generator (Generator): Cherry Point Street Address PSC Box 8000  
City: Cherry Point County: Carteret State: N.C.

Contact Name: JANET BYRNE Phone No.: 919-466-5391

Description of Waste: NON-Regulated Debris

Quantity Shipped: \_\_\_\_\_

Certification: I certify that no regulated hazardous waste or infectious waste was knowingly introduced into the waste while in my custody.

Generator's Signature: [Signature] Date: 8/19/98

Transporter (No. 1): Carlisle Trucking Street Address: 1555 Holland Rd, Aulayville

Contact Name: Glen Phone Number: 910-485-3207

Certification: I certify that no regulated hazardous waste or infectious waste was knowingly introduced into the waste while in my custody.

Transporter's Signature: [Signature] Date: 8/19/98

Other Handlers (Transfer Facility): \_\_\_\_\_ Street Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Phone No.: \_\_\_\_\_

Certification: I certify that no regulated hazardous waste or infectious waste was knowingly introduced into the waste while in my custody.

Quantity Received: \_\_\_\_\_ Quantity Shipped: \_\_\_\_\_

Handler's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Transporter (No. 2) \_\_\_\_\_ Street Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Phone No.: \_\_\_\_\_

Certification: I certify that no regulated hazardous waste or infectious waste was knowingly introduced into the waste while in my custody.

Receiver's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

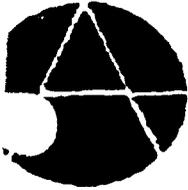
Disposal Facility: East Carolina Enviro Street Address: 1922 Republican Rd

Contact Name: Jack Curran Phone No.: 252-348-3372

Description of Waste: Non-Regulated Debris

Quantity Received: 1.26 tons Quantity Shipped: \_\_\_\_\_

Receiver's Signature: [Signature] Date: 8-19-98



# Addington Environmental, Inc.

Code # **9385**

2345 Alexandria Drive, Suite 400  
Lexington, Kentucky 40504  
Phone (606) 223-3824  
Fax (606) 223-4178

## SPECIAL WASTE ACCEPTANCE APPLICATION

Generator Name: MCA5 Cherry Pt.  
Billing Address: OHM - 5445 Triangle  
Parkway, Norcross GA 30092  
Site Address: PSC Box 8006  
Cherry Pt., NC 28533  
Telephone: (704) 453-7649  
Generator Contact: John Rhyne  
or Tomcherix

Process Generating Waste: CERCLA site clean up & removal action  
Description of Waste: Debris (scrap metal, trees, EG rubbing debris, crushed empty drums, office equipment)  
Disposal Facility: EGE Permit No: 02-03  
Location: BERTIE CO.  
Waste Quantities: 140 Units: Cubic Yards  Tons   
Frequency of Receipt: Daily  Weekly  Monthly  One Time   
Other: \_\_\_\_\_

- Is this waste a characteristically hazardous waste as defined in 40 CFR, Section 261.20-261.24? Yes  No
- Is this waste a listed hazardous waste as defined in 40 CFR, section 261.30-261.35? Yes  No
- Is this waste mixed with a hazardous waste? Yes  No
- Is this waste derived from a hazardous waste? Yes  No
- Does this waste contain Polychlorinated Biphenyls (PCBs)? Yes  No

### LABORATORY DATA (Please attach a hard copy of laboratory test data)

Physical Properties: Physical State: Solid  Semisolid  Liquid  Color: Multi

Halogenated Organics: None mg/kg Flash Point: N/A °F Odor: Yes  No

Water Content: 0 % by weight Paint Filter Test: Passed  Failed

Reactive: No  Yes  H<sub>2</sub>S N/A mg/kg HCN N/A mg/kg Others \_\_\_\_\_ mg/kg

pH Value 6.49 (S.U.) Infectious: Yes  No  Density 500-1,000 lb/cu yd

Chemical Properties: (Concentration in mg)

(TCLP) Arsenic _____	m-Cresol _____	Hexachlorobenzene _____	Pyridine _____
Barium _____	p-Cresol _____	Hexachlorobutadiene _____	Selenium _____
Benzene _____	Total Cresol _____	Hexachloroethane _____	Silver _____
Cadmium _____	2,4-D _____	Lead _____	Tetrachloroethene _____
Carbon Tetrachloride _____	1,4-Dichlorobenzene _____	Lindane _____	Toxaphene _____
Chlordane _____	1,2-Dichloroethane _____	Mercury _____	Trichloroethene _____
Chlorobenzene _____	1,1-Dichloroethane _____	Methoxychlor _____	2,4,6-Trichlorophenol _____
Chloroform _____	2,4-Dinitrotoluene _____	Methyl Ethyl Ketone _____	2,4,6-Trichlorophenol _____
Chromium _____	Endrin _____	Nitrobenzene _____	2,4,5TP (Silver) _____
o-Cresol _____	Heptachlor (a mixture) _____	Pentachlorophenol _____	Vinyl Chloride _____

None of the above TCLP constituents are present in the waste.

Others (Please List): \_\_\_\_\_

Other Information: Delivery Method: Bulk  Hauling Co. Name: EGE CONT. HAULER

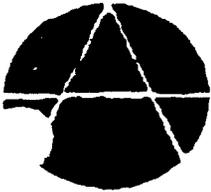
Regulatory Agency Approval received: Yes  No  Permit Number: \_\_\_\_\_

Material Safety Data Sheet Provided: Yes  No

### Generator's Certification Statement

"I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. To the best of my knowledge, the material described above is not classified as a hazardous waste under current regulations, and I agree to notify Addington Environmental, Inc., if such a classification changes. The attached information provided is true and accurate to the best of my knowledge."

Signature of Authorizing Agent: Rachel D Johnson Date: 8-16-9  
Name of Agent (typed or printed): Rachel D Johnson Title: Chemist



Addington Environmental, Inc.

Code # 9385

2345 Alexandria Drive, Suite 400  
Lexington, Kentucky 40504  
Phone (502) 222-3324  
Fax (502) 222-4178

SAMPLE CERTIFICATION FORM

GENERATOR NAME: MCAS Cherry Pt. CONTACT: Tom Chernik TELEPHONE NO. 919 444 8305  
GENERATOR ADDRESS: MCAS Cherry Pt. PSC Box 8006, Cherry Pt., VA  
Sample Source (be specific: box, drum, tank, pit/pond, etc.) NO sample required

SAMPLE DATA: DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

Sampler's Name: \_\_\_\_\_ Telephone No. \_\_\_\_\_

Sampler's Firm (if different from Generator): \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

one \_\_\_\_\_

Was a Generator's representative present during sampling? Yes  No

SAMPLE LABELED WITH 1) Code no., 2) Name of Sampler, 3) Date and Time, 4) Source

Briefly describe sampling method and equipment used: \_\_\_\_\_

SAMPLE CHAIN OF CUSTODY USED (PLEASE ATTACH) \_\_\_\_\_

REPRESENTATIVE SAMPLING CERTIFICATION STATEMENT:

I certify that the material was sampled by procedure and equipment as directed in USEPA 40 CFR, Part 261 Appendix-1, or ASTM, or equivalent method for obtaining representative sampling.

Sampler's Signature \_\_\_\_\_

Generator's Signature Rachel Johnson

Witness's Signature \_\_\_\_\_

If the sampler is not an employee of the generator, the generator should provide a witness during the sampling.

**East Carolina  
Environmental, Inc.**

1922 Republican Road  
Aulander, North Carolina 27805  
919/348-3322 Fax 919/348-5395

Code # **9385** Republic

**WASTE SHIPMENT TRACKING DOCUMENT**

Source (Generator): mcas Cherry Point Street Address PSC Box 8006  
City: Cherry Point County: Carteret State: N.C.  
Contact Name: JOHN RHYNE Phone No.: 919-466-5391  
Description of Waste: NON-Regulated Debris  
Date Shipped: \_\_\_\_\_ Quantity Shipped: \_\_\_\_\_

Certification: I certify that no regulated hazardous waste or infectious waste was knowingly introduced into the waste while in my custody.

Generator's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Transporter (No. 1): \_\_\_\_\_ Street Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Phone Number: \_\_\_\_\_

Certification: I certify that no regulated hazardous waste or infectious waste was knowingly introduced into the waste while in my custody.

Hauler's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Other Handlers (Transfer Facility): \_\_\_\_\_ Street Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Phone No.: \_\_\_\_\_

Certification: I certify that no regulated hazardous waste or infectious waste was knowingly introduced into the waste while in my custody.

Quantity Received: \_\_\_\_\_ Quantity Shipped: \_\_\_\_\_

Facility Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Transporter (No. 2) \_\_\_\_\_ Street Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Phone No.: \_\_\_\_\_

Certification: I certify that no regulated hazardous waste or infectious waste was knowingly introduced into the waste while in my custody.

Driver's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Disposal Facility: EAST CAROLINA ENVIRON. Street Address 1922 REPUBLICAN RD  
AULANDER, NC 27805

Contact Name: JACK CUELLERS Phone No.: 252-348-3322

Description of Waste: \_\_\_\_\_

Quantity Received: \_\_\_\_\_

Facility Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Appendix B**  
**Photographic Log**  
**Debris Removal at Site 85**



Site Entrance



Discarded Spectator Stands at Site Entrance

01944CBIV



Looking NW at Beginning of Debris Area



Closer Look at Tires and Scrap Metal



Old Car and Office Equipment



Large Pile of Drums



End of Stone Road



Site 85 After Drum and Debris Removal