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# **Health and Safety Plan Addendum**

for

## **Air Sparging/Vapor Extraction**

## **Pilot Study**

## **Site 29 - Crash Crew Burn Pit**

### **Marine Corps Auxiliary**

### **Landing Field - Bogue**

Bogue, North Carolina



### **Atlantic Division**

### **Naval Facilities Engineering Command**

**Contract Number N62472-90-D-1298**

**Contract Task Order 0272**

**August 1999**

HEALTH AND SAFETY PLAN ADDENDUM  
FOR  
AIR SPARGING/VAPOR EXTRACTION PILOT STUDY  
AT  
SITE 29 - CRASH CREW BURN PIT

MARINE CORPS AUXILIARY LANDING FIELD  
BOGUE, NORTH CAROLINA

COMPREHENSIVE LONG-TERM  
ENVIRONMENTAL ACTION NAVY CONTRACT

Submitted to:  
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CONTRACT NO. N62467-94-D-0888  
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## 1.0 INTRODUCTION

The following information represents modifications to the Health and Safety Plan (HASP) for the Air Sparging/Vapor Extraction Pilot Study for Marine Corps Auxiliary Landing Field, Bogue, North Carolina (Bogue Field). This document is incorporated as an Addendum to the aforementioned HASP dated August 1997. These modifications address revisions to emergency phone numbers and the hospital referenced in the HASP. These modifications also address the addition of text and a figure for contacting Continuum Healthcare, which has become a company requirement since the HASP was prepared.

The following section and Table of the HASP is addended by this document:

- Section 2.0            Emergency Action Plan (specifically Section 2.6)
- Table 2-1            Emergency Reference Information

It is the responsibility of the Project Manager (PM) to forward copies of this Addendum to the field crew to be inserted into the field copies of the HASP. It is the FOL's responsibility to ensure that all members of the field crew review this Addendum. The FOL will ensure all field crew members sign the site-specific training documentation sheet (Attachment I of this Addendum), indicating they have reviewed the elements of this Addendum and the HASP, understand its requirements, and any questions they may have had have been answered to their satisfaction.

The modifications to the individual section and Table 2-1 are as follows.

## 2.0 EMERGENCY ACTION PLAN

### 2.6 DECONTAMINATION PROCEDURES / EMERGENCY MEDICAL TREATMENT

During any site evacuation, decontamination procedures will be performed only if doing so does not further jeopardize the welfare of site workers. Decontamination will not be performed if the incident warrants immediate evacuation. However, it is unlikely that an incident would occur which would require workers to evacuate the site without first performing the necessary decontamination procedures.

TtNUS personnel will perform removal of personnel from emergency situations and may provide initial medical support for injury/illnesses requiring only "Basic First-Aid" level support. Basic First-Aid is considered medical treatment that can be rendered by a trained first aid provider at the injury location and not requiring follow-up treatment or examination by a physician (for example; minor cuts, bruises, stings, scrapes, and burns). Not included as Basic First-Aid are second or third degree burns, cuts, lacerations requiring stitches or butterfly bandaging, heat exhaustion, severe poisonous plant or insect bite reactions, or sprains. Personnel providing medical assistance are required to be trained in First-Aid and in the requirements of OSHA's Bloodborne Pathogen Standard (29 CFR 1910.1030). Medical attention above Basic First-Aid will require assistance and support from the designated emergency response agencies. **If the emergency involves personnel exposures to chemicals, follow the steps provided in Figure 2-1.**

## FIGURE 2-1 EMERGENCY RESPONSE PROTOCOL

The purpose of this protocol is to provide guidance for the medical management of exposure situations.

In the event of a personnel exposure to a hazardous substance or agent:

- Rescue, when necessary, employing proper equipment and methods.
- Give attention to emergency health problems -- breathing, cardiac function, bleeding, shock.
- Transfer the victim to the medical facility designated in this HASP by suitable and appropriate conveyance (i.e. ambulance for serious events)
- Obtain as much exposure history as possible (a Potential Exposure report is attached).
- If the exposed person is a Tetra Tech NUS employee, call the medical facility and advise them that the patient(s) is/are being sent and that they can anticipate a call from the Continuum Healthcare physician. Continuum Healthcare will contact the medical facility and request specific testing which may be appropriate. The care of the victim will be monitored by Continuum Healthcare physicians. Site officers and personnel should not attempt to get this information, as this activity leads to confusion and misunderstanding.
- Call Continuum Healthcare at 1-800-229-3674, being prepared to provide:
  - Any known information about the nature of the exposure.
  - As much of the exposure history as was feasible to determine in the time allowed.
  - Name and phone number of the medical facility to which the victim(s) has/have been taken.
  - Name(s) of the exposed Tetra Tech NUS, Inc. employee(s).
  - Name and phone number of an informed site officer who will be responsible for further investigations.
  - Fax appropriate MSDS to Continuum Healthcare at (770) 457-1429.
- Contact Corporate Health and Safety Department (Matt Soltis) at 1-800-245-2730.

As environmental data is gathered and the exposure scenario becomes more clearly defined, this information should be forwarded to the Continuum Healthcare Medical Director or Assistant Medical Director.

Continuum Healthcare will compile the results of all data and provide a summary report of the incident. A copy of this report will be placed in each victim's medical file in addition to being distributed to appropriately designated company officials. Each involved worker will receive a letter describing the incident but deleting any personal or individual comments. This generalized summary will be accompanied by a personalized letter describing the individual's findings/results. A copy of the personal letter will be filed in the continuing medical file maintained by Continuum Healthcare.

**FIGURE 2-1 (continued)  
POTENTIAL EXPOSURE REPORT**

Name: \_\_\_\_\_ Date of Exposure: \_\_\_\_\_  
Social Security No.: \_\_\_\_\_ Age: \_\_\_\_\_ Sex: \_\_\_\_\_  
Client Contact: \_\_\_\_\_ Phone No.: \_\_\_\_\_  
Company Name: \_\_\_\_\_

**I. Exposing Agent**

Name of Product or Chemicals (if known): \_\_\_\_\_

Characteristics (if the name is not known)  
Solid            Liquid            Gas            Fume            Mist            Vapor

**II. Dose Determinants**

What was individual doing? \_\_\_\_\_  
How long did individual work in area before signs/symptoms developed? \_\_\_\_\_  
Was protective gear being used? If yes, what was the PPE? \_\_\_\_\_  
Was there skin contact? \_\_\_\_\_  
Was the exposing agent inhaled? \_\_\_\_\_  
Were other persons exposed? If yes, did they experience symptoms? \_\_\_\_\_

**III. Signs and Symptoms (check off appropriate symptoms)**

**Immediately With Exposure:**

Burning of eyes, nose, or throat	Chest Tightness / Pressure
Tearing	Nausea / Vomiting
Headache	Dizziness
Cough	Weakness
Shortness of Breath	

**Delayed Symptoms:**

Weakness	Loss of Appetite
Nausea / Vomiting	Abdominal Pain
Shortness of Breath	Headache
Cough	Numbness / Tingling

**IV. Present Status of Symptoms (check off appropriate symptoms)**

Burning of eyes, nose, or throat	Nausea / Vomiting
Tearing	Dizziness
Headache	Weakness
Cough	Loss of Appetite
Shortness of Breath	Abdominal Pain
Chest Tightness / Pressure	Numbness / Tingling
Cyanosis	

Have symptoms: (please check off appropriate response and give duration of symptoms)  
Improved: \_\_\_\_\_ Worsened: \_\_\_\_\_ Remained Unchanged: \_\_\_\_\_

**V. Treatment of Symptoms (check off appropriate response)**

None: \_\_\_\_\_ Self-Medicating: \_\_\_\_\_ Physician Treated: \_\_\_\_\_

**TABLE 2-1  
EMERGENCY REFERENCE INFORMATION**

Crash/Fire/Rescue	Bogue Field	(252) 466-0602
Police	Morehead City	(252) 726-3131
Fire	Morehead City	(252) 247-2611
Hospital/Ambulance	Carteret General Hospital	(252) 247-1616
MCAS Base Contact	Ken Cobb	(252) 466-5376
Tetra Tech NUS Project Manager	Robert Simcik	(412) 921-8163
Tetra Tech NUS CLEAN Health and Safety Manager	Matthew M. Soltis, CIH, CSP	(412) 921-8912
Tetra Tech NUS Health Sciences Department	Ask for Linda Diano to identify available resources	1-800-245-2730

**2.10 EMERGENCY ROUTE TO HOSPITAL**

Directions to Carteret General Hospital:

- Take Highway 24 East into Morehead City (6-7 miles). Highway 24 turns into Highway 70
- Continue on Highway 70 another 6-7 miles .
- Hospital is on the left.

Carteret General Hospital  
3500 Arendell Street  
Morehead City, North Carolina  
(252) 247-1616

Maps depicting directions from the site to the hospitals shall be obtained and attached to this Health and Safety plan prior to the commencement of site activities.