

N61331.AR.001617  
NSA PANAMA CITY  
5090.3a

MEETING MINUTES FROM RESOURCE CONSERVATION AND RECOVERY ACT AND  
UNDERGROUND STORAGE TANK ENVIRONMENTAL GROUP MEETING DATED 27 JULY  
1999 WITH TRANSMITTAL CSS PANAMA CITY FL  
7/27/1999  
TETRA TECH

**TETRA TECH NUS, INC.**

1311 Executive Center Drive, Ellis Building, ■ Suite 220 ■ Tallahassee, FL 32031  
(850) 656-5458 ■ FAX (850) 656-7403 ■ www.tetrattech.com

04 August, 1999

Commanding Officer  
Department of the Navy  
Southern Division Naval Facilities Engineering Command  
ATTN: Mr. B.K. Moring (Code 1855)  
Remedial Project Manager  
2155 Eagle Drive  
North Charleston, South Carolina 29406

Reference: Clean Contract No. N62467-94-D0888

Subject: Minutes from CSS Panama City RCRA and UST Environmental Group Meeting  
July 27, 1999.

Dear Mr. Moring:

Attached is a summary of the meeting minutes for the planning meeting held at the Coastal Systems Station (CSS) Panama City in Panama City, Florida conducted on July 27, 1999. The purpose of the meeting was to introduce new members of the environmental team, review the current status of sites AOC 1, and UST Site 98, and determine future activities at the Facility.

Please review the meeting notes and notify me of any discrepancies.  
If you have any questions concerning this summary please call me at (850) 385-9899.

Sincerely,  
TETRA TECH NUS, INC.

Gerry Walker, P.G.  
Task Order Manager

gw/gw

cc: Robby Darby, SouthDiv  
Nick Ugolini, SouthDiv  
Arturo McDonald, CSS  
Olga Perry, USEPA  
Kent Davis, Dyanamac Corp.  
Greg Brown, FDEP  
David Grabka, FDEP  
Jerry Goode, TtNUS  
Steve Rosansky, Battelle  
Dr. G.B. Wickramanayake, Battelle  
William Pelton, Greenteam Services

**DRAFT MEETING MINUTES  
RCRA AND UST ENVIRONMENTAL GROUP MEETING  
CSS PANAMA CITY, PANAMA CITY, FLORIDA  
JULY 27, 1999**

The personnel present during the meeting included:

| <b>Name</b>              | <b>Affiliation</b>                                    | <b>Phone Number</b> |
|--------------------------|---|---------------------|
| Robbie Darby             | SouthDiv NAVFAC                                       | (843) 820-5637      |
| B.K. Moring              | SouthDiv NAVFAC                                       | (843) 820-5514      |
| Nick Ugolini             | SouthDiv NAVFAC                                       | (843) 820-5596      |
| Arturo McDonald          | Coastal Systems Station (CSS)                         | (850) 234-4743      |
| Olga Perry               | USEPA Region IV                                       | (404) 562-8534      |
| Kent Davis               | Dynamac Corp (USEPA Contractor)                       | (404) 681-0933      |
| David Grabka             | Florida Department of Environmental Protection (FDEP) | (850) 488-3935      |
| Greg Brown               | FDEP  | (850) 488-3935      |
| Gerry Walker             | Tetra Tech NUS  | (850) 385-9899      |
| Jerry Goode              | Tetra Tech NUS  | (850) 385-9899      |
| Steven Rosansky          | Battelle  | (614) 424-4698      |
| Dr. G. B. Wickramanayake | Battelle  | (614) 424-4698      |
| William Pelton           | Greenteam Services Inc. (Battelle Contractor)         | (850) 960-0370      |

**Introductions**

Prior to the meeting, several of the attendees including Robby Darby, B.K. Moring, Olga Perry, Kent Davis, Gerry Walker, and Jerry Goode completed a site visit of Area of Concern (AOC) 1, Solid Waste Management Unit (SWMU) 3, SWMU 9, SWMU 10, and Underground Storage Tank (UST) Site 98.

B.K. Moring began the meeting by having self-introductions by all present team members. Steven Rosansky of Battelle then distributed copies of the "Performance Status Report through April 21, 1999, for AOC 1 Bioslurper, CSS Panama City, Panama City, Florida". Steve indicated this was the most recent of approximately nine Performance Status Reports completed and distributed for AOC 1. The data presented in the Performance Status Reports is cumulative; therefore earlier data is included with the more recent data. However, the text of the Performance Status Report changes and is not cumulative.

Olga Perry and Kent Davis requested copies of previous Performance Status Report text for their review.

**ACTION ITEM:** Steve Rosansky will forward copies of the previous AOC 1 Performance Status Reports text to Olga Perry and Kent Davis.

Kent Davis initiated a discussion concerning availability of previous reports and data. Gerry Walker indicated that historical documents had previously been placed on a CD. He volunteered to check into getting the CD copied.

**ACTION ITEM:** Gerry Walker will attempt to copy the existing CD containing historic documents for the CCS Panama City Facility and forward copies to Arturo McDonald and Kent Davis.

### **AOC 1 Bioslurper Presentation**

Steven Rosansky of Battelle gave a presentation of the AOC 1 Bioslurper at CSS Panama City. The purpose of the Bioslurper remedial system is to remove petroleum free product at the site and biovent the onsite soils. Initially a pilot study was conducted (October 1996), followed by the installation of the full scale model (July 1997), and operation and optimization (August 1997).

The Bioslurper is currently extracting from wells containing free product. Petroleum free-product is measured weekly, and the extraction system is rotated to extract from 5 wells at a time. In addition, air is injected into the wells located on the north side of the site to stimulate bioremediation of the onsite vadose zone.

Gerry Walker asked about a free-product recovery spike indicated on a product recovery graph. Steve indicated that in August 1998 there was a drop in the site water table as a result of local drought conditions. In September 1998, a hurricane in the area immediately raised the water table. The raised water table corresponded to an increase in the recovery of free-product.

Charts presented included: total water recovered, NAPL to water ratio, recovered water concentrations, off-gas concentrations, and change in average thickness of free-product in extraction wells over time (0.50 feet originally to 0.05 feet as of June 1999). Steve indicated that originally the Bioslurper system had a free-product recovery rate of 40 gallons per day (gpd). The systems current recovery rate averages approximately 1 gpd.

A flow chart of the "Technology /Risk Based Exit Strategy" was presented. Free-product recovery was decreased by 90%. Therefore, Battelle proposed to discontinue free-product recovery using the Bioslurper system and monitor onsite wells for free-product twice monthly. If free product returns, the Bioslurper would be started up again. Also quarterly monitoring of groundwater would be conducted.

### **General Discussion**

1. David Grabka asked about the exit strategy flow chart. He believed that previous exit strategy flow charts had a decision to discontinue recovery if production decreased below 1 gallon per day. Dr. Wickram replied that the flow chart has evolved during the project and that they preferred not to have a specific number in current exit strategy flow charts. However, current production rates are less than 1 gallon per day.
2. Greg Brown indicated that the Bioslurper has been a very successful project and has removed significant amounts of free-product. However, He stated that 1 gpd of free-product recovery is still a respectable recovery rate and that other remedial projects would be happy to have a similar recovery rate. Greg felt that additional free-product recovery should be continued, but agreed that the Bioslurper may not be the best method for future free-product recovery. Bailing wells of free-product and a Haliburton pump have been used at other sites with success. Dr. Wickram indicated that Battelle has evaluated various free-product recovery methods in the past to determine efficiency and could use that data on this project. Greg asked "how efficiency was determined". Dr. Wickram stated that efficiency was based on product recovery only.

3. Greg Brown stated that perhaps now is the time to switch from an active recovery system to a more passive system. Dr. Wickram agreed, but restated that Battelle would like to leave the Bioslurper in place to continue operation if significant amounts of free-product return. Greg reemphasized that continued recovery of free-product at the site is desirable even though a different collection method is preferred.
4. B.K. Moring asked at what point can the Navy stop bailing free-product and let natural attenuation occur. Greg replied that free-product recovery could be discontinued when it is no longer feasible. However, 1 gallon per day is still feasible.
5. Dr. Wickram indicated that after the Bioslurper is shut down additional sources of free-product might be identified at the site. David Grabka confirmed that even as recently as six months ago, 6 inches of free product was present at the site. Dr. Wickram stated that the Bioslurper is not the final remedy for the site.
6. Nick Ugolini asked what are FDEP's concerns? David Grabka replied that FDEP does not want activity to stop at the site and does not want a completely passive system at the site. They are concerned that free-product will reach St. Andrews Bay. Nick and Dr. Wickram concur that a true no-activity, passive system is not the best plan for the site. They want to shut down the Bioslurper to measure free-product and complete free-product thickness calculations, bail free-product from onsite wells, and monitor groundwater.
7. Greg Brown asks what is the most recent groundwater data. B.K. Moring indicated that that the most recent groundwater data is summarized in the Data Assessment completed by HLA in April 1998. In summary there were no significant changes in the groundwater concentrations.
8. The group then began a discussion of an appropriate exit strategy for the free-product recovery operations at the site. David Grabka indicated that FDEPs engineering group completed a guidance document for the general exit strategy for free-product sites. B.K. Moring indicated that the procedure had been followed at SWMU 10 and a similar procedure could be completed at AOC 1.

**ACTION ITEM:** David Grabka will forward a copy of FDEPs guidance document for a general exit strategy to SouthDiv and Battelle (by August 6, 1999). Based on the guidance and previously completed procedures at SWMU 10, Battelle will develop an exit strategy for AOC 1.

9. The Group then discussed soils at AOC 1. B.K. Moring asked do we need another round of soil sampling at the site? He indicated that soils are not a risk except as a continuing source to groundwater. The group discussed whether soils should be included in the free-product exit strategy for AOC 1 or wait until the free-product removal is complete and address it as a separate issue. The group agreed that soils would not be included in the exit strategy, but would be dealt with as a separate issue.

### **Group Break**

### **Corrective Measures Implementation Plan Discussion**

Group begins discussion of the Corrective Measures Implementation Plan (CMIP). South Div has completed a revised Draft Statement of Basis (SB). However, Olga Perry indicated that USEPA has a new lawyer on board and they want to make additional comments on the document. Once

the SB has been approved and the new RCRA permit is issued, USEPA will then be able to review and comment on the CMIP.

### **UST Site 98 Presentation**

1. Jerry Goode leads a discussion of the investigation and contamination present at UST Site 98. Contamination was identified in the upgradient monitoring well at concentrations higher than the down gradient wells. In addition, solvent type Volatile Organic Compounds not attributable to the site were detected in the groundwater samples. AOC 1 is directly upgradient of Site 98 and is the likely source for at least a portion of the contaminated groundwater. The Group decides that the site should be transferred from the UST program to the Installation Restoration (IR) program and that the contaminated groundwater associated with Site 98 will be addressed under the AOC 1 investigation and remedial action.

**ACTION ITEM:** Jerry Goode will draft a letter requesting that Site 98 be transferred from the UST program to the IR program so that the site can be addressed with the AOC 1 Investigation and remediation.

2. David Grabka asked "what specific natural attenuation parameters we planned to analyze for in the CMI" and if the parameters were based on the recent FDEP guidance. Gerry Walker stated that the parameters are listed on tables in the CMIP, but that Tetra Tech would confirm that the parameters are adequate based on the most recent FDEP and USEPA guidance.

**ACTION ITEM:** Gerry Walker will review the most recent FDEP and USEPA guidance to determine if the natural attenuation parameters specified in the CMIP are adequate. Gerry Walker will E-mail the group with information on the issue.

### **Meeting Closeout**

The agenda was then reviewed to confirm that all issues were addressed and the meeting was concluded.

### **Post Meeting Site Visit**

Following the meeting, Jerry Goode, Nick Ugolini, David Grabka, and Greg Brown attended a site visit at UST Site 307. The purpose of the site visit was to review the physical constraints of the site including the sea wall at Alligator Bayou, the location of the above ground storage tank and previous sampling locations. After observing the limited area of the site, Jerry Goode and Nick Ugolini proposed that they delay the installation of the additional monitoring well, requested in FDEP's comments on the Site Assessment Report (SAR), until after the analytical results for the additional round of groundwater sampling and soil sampling are available and reviewed. Jerry Goode will send a formal request to FDEP suggesting the above action and David Grabka will review the report to determine if these actions are appropriate.

**ACTION ITEM:** Jerry Goode will draft a letter to FDEP requesting a reevaluation of the need for an additional monitoring well at Site 307.