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**Baker**

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March 24, 1997

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Commander  
Atlantic Division  
Naval Facilities Engineering Command  
1510 Gilbert Street (Building N-26)  
Norfolk, Virginia 23511-2699

Attn: Ms. Katherine Landman  
Navy Technical Representative  
Code 18232

Re: Contract N62470-89-D-4814  
Navy CLEAN, District III  
Contract Task Order (CTO) 0001  
MCB Camp Lejeune, North Carolina  
Partnering Minutes - January 1997

Dear Ms. Landman:

Attached are the final minutes for the Partnering meeting held on January 7, 8, and 9, 1997 in Clearwater Florida. A copy of these meeting minutes has been forwarded to all of the Team members. These meeting minutes were finalized at the Partnering meeting held on March 19, 20, 1997 in Raleigh, North Carolina. No comments were received on the draft meeting minutes; therefore, no revisions were made.

If you have any questions, please do not hesitate to contact me at (412) 269-2053.

Sincerely,

BAKER ENVIRONMENTAL, INC.

*Matthew D. Bartman*

Matthew D. Bartman  
Activity Coordinator

MDB/lq

Attachments

cc: Ms. Linda Saksvig, P.E., Code 18231  
Ms. Dawn Boucher, Code 18234  
Mr. Byron Brant, Code 1832  
Mr. Neal Paul, MCB Camp Lejeune  
Mr. Dave Lown, NCDEHNR  
Ms. Gena Townsend, EPA Region IV  
Mr. Jim Dunn, OHM  
Mr. Brent Rowse, ROICC MCB Camp Lejeune  
Ms. Lee Anne Rapp, P.E., Code 18312 (w/o attachment)  
Ms. Beth Collier, Code 02115 (w/o attachment)



A Total Quality Corporation

**MEETING MINUTES**  
**MCB CAMP LEJEUNE PARTNERING TEAM**  
January 7, 8, and 9, 1997

A Partnering Meeting was conducted on January 7, 8, and 9 between representatives from LANTDIV, MCB Camp Lejeune, USEPA Region IV, NC DEHNR, Baker Environmental, Inc. (Baker), and OHM Remediation Services, Inc. (OHM), and Management Edge. The meeting was attended by the following:

- Ms. Katherine Landman, LANTDIV
- Ms. Dawn Boucher, LANTDIV
- Mr. Neal Paul, MCB Camp Lejeune
- Ms. Gena Townsend, USEPA
- Mr. Dave Lown, NC DEHNR
- Mr. Matt Bartman, Baker
- Mr. Richard Bonelli, Baker
- Mr. Jim Dunn, OHM
- Mr. Dick Handrahan, Management Edge

Guests who attended the meeting included:

- Mr. Bill Mullen, LANTDIV
- Ms. Kelly Dreyer, Marine Corps
- Mr. Bill Mullen, LANTDIV
- Ms. Linda Saksvig, LANTDIV

The meeting was hosted by Ms. Katherine Landman and chaired by Mr. Matt Bartman who also recorded the minutes.

The minutes are summarized below for each day of the meeting and by topic.

**January 7, 1996**

The meeting focused on the following items:

- Check In
- November Meeting Minutes
- RAB
- Lot 201 Projects
- Biocell at Lot 203
- Site 69 Treatability Study
- O&M Contract

**January 8, 1997**

- Site 36
- Site 86
- CD-ROM

**January 9, 1997**

- OU 1 Status
- Sites 88, 89, and 93 Phase II investigation
- Next Meeting

The first day of meeting began with the check in and review of the minutes from the previous meeting. During check in the following important matters were discussed:

Neal informed the Team that Andy Michaels from LANTDIV was beginning to prepare the O&M contract that is going to be administered by the FSC office.

Kate informed the Team that a replacement for Mark Barnes could be named within the next two months. When Mark moves he will still be in a transition period and be accessible to his replacement for any information regarding UST matters. Mark is moving into innovative/technology support under Byron Brant.

Kate additionally informed the Team that Phil Smith has been named as Bill Russel's replacement. Matt Walsh has moved on in his PDC assignment to the ROICC office at Oceana.

Dave informed the Team that Grover is working hard at finding his replacement. Dave believes that by the end of January a replacement will be named thereby allowing Dave to dedicate his time to Camp Lejeune.

Gena informed the Team that Earl Bozman has been named as her new boss he is a former RPM and is familiar with Site Assessment on industrial sites.

## **RAB**

Neal informed the Team that he is attempting to recruit two minority members. Camp Lejeune is placing ads on Wilmington Journal and the Challenger. In addition, several of the current RAB members have brought forth names for consideration. Neal wants to continue to solicit applications prior to accepting the names from the current RAB members. The Community Cochair is allowing Neal to handle this matter.

## **Lot 201 Project**

Matt informed the Team regarding the current progress on this project. This project is base funded and involves geophysical clearing in areas where storm water retention ponds are planned for construction. These retention ponds are in support of the storage areas being constructed for the base landfill. The initial geophysical investigation in areas planned for construction determined that subsurface was not free of metallic debris and therefore not suitable for construction. New areas have been identified for construction and the tree clearing in support of the geophysical investigation has been completed. The geophysical investigation is scheduled to be completed the week of January 7, 1996 and the geophysical report will be completed by the end of January.

## **Biocell in Support of Site 3**

Matt raised the issue regarding the possibility of using the existing biocell at Lot 203 to handle the PAH contaminated waste from Site 3. There is a treatability study planned for Site 3. As part of this treatability study a small biocell is to be constructed at Site 3.

Jim stated that the biocell at Lot 203 is permitted for POL wastes and has a capacity for 1000 cubic yards. The permit could be modified to handle 2000 cubic yards and construction modifications to the current biocell could be made.

Gena wanted to know what would happen to the POL waste while the PAH waste was being treated. Neal wanted to know if Jim was aware of the volume of POL contaminated soil that would be treated at the biocell in the near future. Jim estimated that the volume would be significant because of the USTs that within the housing units that need to be removed. Jim mentioned that the existing biocell could be extended to the west and be used to treat the PAH waste and then permitted to handle the excess POL waste.

Neal wanted to meet with John Riggs and get a good estimate on the volume of POL contaminated soil. Neal wants to be able to justify the construction of another biocell that will be used for POL waste.

After an extensive discussion regarding permitting, involvement of WiRO, and RCRA the following options were generated:

1. Build treatment cell next to the existing cell at Lot 203, meet with WiRO to discuss the use and the option to repermit the cell to handle POL waste after treatment of the PAH contaminated soil is complete.
2. Construct the biocell onsite, no need to the to obtain a permit, however the cell could only be used for the one time use of the PAH soil.

### Site 69 Treatability Study

Ray Watras, Baker project manager, and Fayaz Lakhwala, Baker subcontractor, participated in this discussion via phone conference. The Treatability Study (TS) at Site 69 has been ongoing since March of 1996 and Kate wanted to bring the Team up to date with the findings of the UVB and KGB in-well aeration systems and in turn make decisions on the next step of the study or design. The following is some of the main issues that resulted from this discussion.

Kate wanted to know why we are still pursuing the KGB system even after two failed dye tracer studies, and why should we move the move the UVB system 30' to the north if the radius of influence has been determined to be 90' are radius of influence should already be reaching the contamination.

SBP has made suggestion to use pressure transducers to monitor changes in the pressure; however, Jim and Rich pointed out that this will only tell you changes in pressure not if a circulation cell has been or can be created.

Kate explained that the dye tracer tests were performed in a divergent and convergent manner. Jim noticed that according to the convergent maps the dye should never have reached wells 16IW, 21W, and 21IW.

Fayaz explained that during a dye tracer test dyes can get lost due to preferential pathways and retardation. Both dyes used for the UVB studied may have retarded. Fayaz stated that it is possible that there is no circulation cell and this is why there is a need for pressure transducers. A circulation cell may not be present due to the nature of the geology and may never develop. Kate asked how pressure transducers would show cell existed and if the number of wells is sufficient to provide us with this information? Fayaz explained that it is an examination of head pressure at shallow well and at deep well and then it can be determined if there is a gradient. Fayaz would like to perform this with the wells that are currently in place and with the system off. The test should take three days.

Gena asked if we had head pressure why don't we see KGB dyes in UVB system? Fayaz explained that if there is a semiconfining layer then dyes would only be seen if there was a large concentration of dyes.

Kate wanted to know how we would be able to tell if we had influence. Fayaz said that the KGB well will show changes in concentration over time. Jim stated that there is no data from KGB well to show this so how can we tell KGB system is working. Fayaz admitted that this is a good question, even though the off gases show low concentrations.

The UVB system became the topic of the phone conference. At this time Kate posed a question as to what would be gained if the well was moved a distance of 30' if the radius of influence is 90'? Fayaz stated that the top of the UVB screen is 37'bgs and that the system will not create a circulation above the upper screen, therefore, any wells above the upper screen will not be influenced. Ray stated that we would like to see levels if levels in the system and off gases change if the system is moved. Ray felt that the monitoring wells in the area are not reliable if there are fluctuations in the groundwater.

Kate is skeptical that moving the well is necessary and will provide any benefit. Kate wanted to see the following information: a figure showing the current circulation cell, calculations on expected contaminant levels on current UVB system, and what will the concentrations over time be if the UVB well is moved.

The team felt that there are still many questions to be answered and the information obtained to date needed to be discussed. The draft TS report will be submitted to the Team on January 24. A RAB meeting is scheduled for the evening of February 5, 1997; therefore, the Team decided to meet during the day on the 5th to discuss the concerns and questions raised during this call. Representatives from SBP will also attend this meeting.

### **O&M Contract**

Kate informed the Teams, Cherry Point participated on this portion of the meeting, that the RAC and CLEAN contract cannot continue to be extended to manage the operation and maintenance (O&M) which includes monitoring of the treatment systems installed under the UST and IR programs. Therefore, Andy Michaels from LANTDIV is working with the Federal Services Contracting Office at MCB Camp Lejeune to prepare a qualification statement for a contract to handle all of the O&M. The contract will be for one year with five option years. This contract will be different from others because it will be for all O&M and not a site by site basis. The qualification will include a small business set aside and is to be in place by February 1998. Until this time the O&M will continue to be handled by the RAC and CLEAN contractors.

### **January 8, 1997**

#### **Site 36**

Kathy Chavara discussed the PCB concentrations that were detected during three sampling round and the location of the PCB concentrations in relation to the proposed highway construction. Given the highway construction Kathy posed the question to the Team regarding the need to remediate the PCBs and to what level. Gena wanted to asked how the road would be constructed and how much excavation would occur. Kathy felt that the road would require little excavation and her volume estimates for excavation were cubic yards if 10 ppm was used as the cleanup level and 70 cubic yards if 25 p.m. were used. Both of these volumes involve excavation to 1 foot.

Kathy mentioned that due to the construction of the highway, we were assuming an cleanup level of 25 ppm. Jim stated that the cost to excavate and remediate at this level would be roughly \$20,000 based on \$45/\$50 per ton. Kate stated for this amount and in order to prevent any future concerns the excavation should be performed. Gena would like to see additional sampling in the area of sample OA-SB01-IW. Jim said that during the excavation that could establish a 10' x 10' grid in this area. Dave had concerns regarding possible contamination in the dirt road that currently exists. Jim said that additional sampling can be performed on the road and on the side opposite the side to determine impacts to the road. A 10' x 10' grid will be established to answer this concern. Jim stated that samples will be analyzed onsite with Ensys and submitted for confirmation by a fixed base lab.

The conclusions of this discussion were: 1) excavation to the 10 p.m. level, 2) additional ENSYS and fixed base sampling and analysis from the road and south of the road, 3) confirmatory sample grid around OA-SB01IW.

Gena would like this information discussed at the February 5 RAB meeting.

The next issue for Site 36 dealt with the levels of iron and lead in the soil. After the initial RI was submitted Patrick Watters (NC DEHNR) and Kevin Koporec (USEPA) commented that the case for not addressing these metals needed to be stronger. Dave was interested in knowing if there was any history of a source for these contaminants. From the levels presented, Dave did not see a concern but would like to see more information in the text of the RI report regarding background data and biodegradation. Rich stated that the response to comments will describe the plan of action that will be taken to address the comments.

Kathy discussed that there were two hits of lead in the soil that were above 400 ppm. Dave responded by stating that lead levels in the groundwater were never above groundwater standards which is an indication that the lead if present is not leaching. Kathy and the Team concluded that an alterative for metals in soil was not necessary for the FS.

Gena raised a concern regarding the elevated metal concentrations in the fish and crab tissue. Kate stated that if these metals are not contaminants of concern associated with this site then this should be stressed. Gena felt that the ROD should state that the proper authorities should be notified regarding the findings of the fish tissue and crab analysis.

Baker will prepare a letter with information on the metal concentrations in the fish and crab. This letter will be forwarded to Carmen Lombardo who is in charge of Fish and Wildlife at Camp Lejeune.

The discussion continued on with a discussion of the volatile contamination at this site. Kathy stated that the alternative that is being evaluated is institutional controls with monitoring. Models presented in the FS show that natural degradation will assist in reducing the levels of contamination. Rich mentioned that surface water will be part of the monitoring. Dave mentioned that the state model presented in the Draft Risk Assessment Framework could be used to back calculate concentration in groundwater that is protective of surface water. Dave is also interested in talking with the state surface water section to obtain an acceptable 7Q10. Dave would like to talk to Diane Rossi as to whether a CAP will be required for this site. Baker will send modeling information to Dave and Neal. Dave will be talking to state groundwater section regarding the interpretation of K, L, and M.

#### **Site 86**

This site is considered industrial there are no groundwater receptors. The initial remedy was pump and treat and Kathy wanted to know that given those conditions if other alternatives could be considered. Gena wanted to know if any groundwater modeling had been conducted. Kathy stated that it had but it was not presented in the FS. Rich asked what type of information should be presented. Gena stated that she was comfortable with how the TCE contamination was handled but wanted more definition for the DCE. Rich stated that he would prepare an information packet to be distributed to the Team and that this information could be discussed as part of a conference call.

#### **CD-ROM**

Kate would like to use remaining money on Baker CTOs to begin the process of placing the Administrative Record for Camp Lejeune on CD-ROM. There was a long discussion as to how detailed the CD-ROM has to be and what capabilities would be needed in order for each Team member to view the CD-ROM. Kate is not only considering the Administrative Record but also future reports. Unlike the Administrative Record, future reports would be interactive. Matt explained that future reports would be set up just like current reports with a Table of Contents that is linked to each sections, each table, figure and reference within a section will be highlighted as you read through the text. As you come to a highlighted item you can just click on it and it will appear. Kate mentioned that this interactive approach is how we would like to handle future documents. However, due to cost the current Administrative Record will be handled as a view only CD. The team put this item on the Parking Lot until Matt can provide a demonstration of the interactive CD.

#### **January 9, 1997**

#### **OU 1**

Jim provide the Team with an update on the treatment systems. The North Plant has been torn apart to remove the calcium. There has been a cal/spur system installed to prevent calcium buildup. Several parts that leaked have been replaced. The work took approximately 4 weeks at a cost of less than 30K. The South Plant is scheduled to be cleaned starting on 1/9/97. The South Plant is not as in bad shape as the North Plant.

Neal restated his concerns with the inefficient operation of this plant and how he is getting pressure to get it up to capacity and start remediating the contamination. He stated that we need to get a good handle on the plants and the contamination associated with the UST and IR sites.

Jim stated that he will prepare a report documenting the recommendations and changes to the plants once the South Plant cleaning is completed.

## OU 15 (Site 88) and OU 16 (Sites 89 and 93)

Matt explained to the Team that the final Project Plans for these sites were going to be delayed until February 21, 1997. Matt stated that this delay was necessary so that he would be able to discuss the proposed scope of the Phase II investigation and have comments from the Team prior to generating the plans. Getting input from the Team is required due to the findings of the Phase I investigation and the need to continue delineation of contamination at Sites 88 and 89. Once Matt was able to update the Team on the findings of the Phase I investigation he discussed the scope of the Phase II scope. Matt informed the Team of the need to install shallow, intermediate, and deep wells at all Sites, and that at Sites 88 and 89 additional shallow and intermediate temporary wells would be required to complete the delineation of the contamination prior to the installation of permanent wells. Kate stated that looking at the soil contamination at Site 88 that we should conduct soil sampling, in a grid pattern, to define the extent of impact on the soil. Matt stated that in addition to this soil sampling, soil sampling would be conducted during monitoring well installation. Gena would like to see the ecological impacts to the surface water in Edwards Creek (Site 89) addressed through sampling.

After the scope of the investigation were discussed and appropriate revisions and additions made the Team discussed possible remedial alternatives for the sites and what information could be collected as part of the investigation phase. Sites 88 and 93 have possibilities of being candidates for intrinsic bioremediation. However, more soil data and extent of groundwater contamination at Site 88 need to be defined. Intrinsic bioremediation is very likely for Site 93. The contamination at this site is fully defined and very localized. There are no receptors to the groundwater and all contamination above criteria is in the shallow aquifer. The installation of permanent wells will be geared for using these wells for monitoring of intrinsic bioremediation. Intrinsic bioremediation will probably not be accepted at for Site 89 due to the impact of contamination on Edwards Creek.

Matt informed the Team that all of the scoping changes would be reflected in final work plans. Kate is unsure about how much funding is available to complete all of the additional work. As a Team we may need to decide which work is the most critical and how funding can best be put to use. Kate stated that we can discuss this once she evaluates her 97 spending plan and the amount of work described in the final Project Plans.

### Action Items

#### Neal Paul

- Talk to John Riggs to determine quantity of POL waste that is anticipated to be placed in the biocell in the next few years.
- Send information on Site 36 to Diane Rossi to determine if a CAP is required

#### Rich Bonelli

- Create a figure showing 50 p.m. concentration line for PCBs at Site 36
- Provide plan of action for iron in soil at Site 36
- Provide a letter to Neal regarding the Fish and Crab tissue results from Brinson Creek
- Prepare package of Site 86 information for phone conference

#### Dave Lown

- Talk to state SW section regarding 7Q10s
- Talk to state GW people regarding interpretation of k and l

#### Kate Landman

- Discuss HPIA UST status with Mark Barnes

#### Team

- Be prepared at next meeting to discuss CD-ROM capabilities.

### Next Meeting

Date: March 19, 20  
Location: Raleigh, North Carolina  
Chair: Rich Bonelli  
Host: Dave Lown