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NAVAL BASE CHARLESTON ENVIRONMENTAL PROJECT TEAM MEETING MINUTES FOR  
1996 CNC CHARLESTON SC  
12/1/1996  
CNC CHARLESTON

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**Naval Base Charleston  
Environmental Project  
Team**

**Meeting Minutes**

**1996**

PT AGENDA

8 January 1996

Memorandum

From: M. Anthony Hunt, SOUTHDIV  
To: Distribution

- 1. The following is the planned agenda items for Tuesdays meeting;

AGENDA  
 NAVBASE CHARLESTON  
 PROJECT TEAM MEETING  
 9 JANUARY 1996  
 9:30 A.M to 1:00 P.M.  
 Building NH-45 Basement Conference Room

FOSL - Discussion on FOSL review, FOSL status.

CAMP - Project Team discussion on what changes need to be made to CAMP

Administrative Record - Need to decide on what documents, Version (Draft or Final) and where to locate.

Time Permitting: Zone J discussion  
Groundwater Monitoring Parameters  
Sites identified through FOSL process

- 2. If there are any additional items that should be added please contact me at (803) 820-5525.

M. Anthony Hunt  
Remedial Project Manager  
Naval Base Charleston

Distribution:  
SCDHEC, Bowers, Olano, Regan  
EPA, Brittain  
COMNAVBASE, Fontenot, Dearhart, Albers,  
Ensafe, Haverkost

OPTIONAL FORM 99 (7-90)

<b>FAX TRANSMITTAL</b>		# of pages ▶ 1
To <i>Todd Haverkost</i>	From <i>B Stockmaster</i>	
Dept./Agency	Phone # <i>820.7481</i>	
Fax # <i>856-0107</i>	Fax #	

DT MINUTES

RAB INFO

PT AGENDA

# NAVBASE Project Team Meeting

February 28, 1996

NH-45 Basement Conference Room

Time: 0900

## AGENDA

- Draft Zone B RFI Report Pre-submittal Review
- Zone A RFI 90% Progress Report
- SWMU 102 (Building 79) Update
- CAMP
- UST Removals
- Interim Measures
- Roles and Responsibilities from the Environmental Restoration Management Alliance Meeting in November 1995
- Brief on EnSafe's Involvement with Industrial Clients Adjoining NAVBASE

PT MINUTES

**NAVBASE Charleston  
Project Team Meeting  
February 28, 1996  
Meeting Minutes**

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**ATTENDEES**

Doyle Brittain - USEPA  
Joe Bowers - DHEC  
Johnny Tapia - DHEC  
Brian Stockmaster - SOUTHDIV  
Daryle Fontenot - SOUTHDIV  
Mark Hancher - E/A&H

Todd Haverkost - E/A&H  
Dave Backus - E/A&H  
Tony Hunt - SOUTHDIV  
Rick Albers - CNSY  
Steve Frederick - Galileo  
Toby Blasingame - E/A&H

**AGENDA:**

1. Draft Zone B RFI Report Pre-submittal Review
2. Zone A RFI 90% Progress Report
3. SWMU 102 (Building 79) Update
4. CAMP
5. UST Removals
6. Interim Measures
7. Roles and Responsibilities from the Environmental Restoration Management Alliance Meeting in November 1995
8. Brief on EnSafe's Involvement with Industrial Clients Adjoining NAVBASE

**DRAFT ZONE B RFI REPORT PRE-SUBMITTAL REVIEW**

Copies of the *Draft Zone B RFI Report* were distributed to team members in attempt to solicit input to the document prior to official submittal early next month. In addition to seeking input, the purpose of the pre-submittal review was to give team members a preview of the findings and recommendations presented in the document.

E/A&H presented an overview of the document and pointed out that risk at the only site in Zone B is being driven by Benzo(A)Pyrene equivalents. The risk posed by constituents detected in soil at the site slightly exceeds the threshold for proceeding into CMS. However, the fact that the samples containing the highest concentrations of semivolatiles were located in close proximity to an asphalt sidewalk raises the question of whether the compounds detected are a result of site impacts or the asphalt. As an alternative to possibly proceeding unnecessarily into a CMS, the report suggests that a few more samples be collected to determine if in fact the sidewalk is the source of the compound detected.

When team members were asked what their opinions were, Doyle expressed concern that he had not seen the data before today therefore, he was not in a position to comment. The discussion turned to trying to decide how much time should be devoted to the pre-submittal review. The suggestions varied from an entire day to only touching on the high points such as are there any "surprises". Doyle suggested that a 10 day extension be granted and the team meet next week to discuss the report after everyone had a chance to look at it in detail. Joe stated that he did not have problem with meeting or the extension if it would make a difference in the final outcome of the report but that it didn't sound like anything would change. Ultimately the team decided against a meeting with the hope that in the future, implementation of the 30%, 60%, and 90% progress meetings would keep team members better informed so that they would be able to provide meaningful to each zone investigation as it progresses rather than wait until the end.

#### **ZONE A RFI 90% PROGRESS REPORT**

E/A&H distributed text and maps for each site in Zone H which discussed and illustrated sampling locations, contaminant concentrations for the "significant" contaminants found, and proposed second round sampling points. The team reviewed the information and the recommendations for the proposed second phase of sampling were tentatively agreed upon. E/A&H will revise the drawings and resubmit the information to the team prior to initiating the second phase of work.

Specific issues that were raised during the discussion include:

SWMU 1 and 2 - Doyle asked if RAD screening was performed on the groundwater samples at SWMU 1 or 2. Todd responded that E/A&H does routinely screen for RAD from a health and safety stand point, but it is gross screening and even though it should have been done he could not say definitively that it had been done. EPA's concern is that they do not want any samples from SWMU 2 to include RAD material or mixed waste because the Navy has no place to dispose of this kind of waste right now. As for the results of the GRAM survey for this area, it will not be complete until the DRMO is closed in September. The RFI team has not been keep up to date on the results on the GRAM results in Zone A. Doyle, Henry Porter (DHEC), Tommy Gerkin, Bobby Dearhart have been looking into this issue and Tony expressed a desire to be kept better informed. As for the delay in completing the RFI, Doyle suggests that we document the approval letter from DHEC (January 1996) in the report as justification for delay at SWMU 1 and 2 due to RADCON issues.

SWMU 38 - Need to collect some more samples to determine whether or not we have a wide spread problem with high levels of DDT that were found.

SWMU 39 - E/A&H proposed more sampling for TPH. State is concerned that we are not seeing VOAs and SVOAs, but always see big TPH numbers. State is wanting a better

explanation of the disparity State/EPA agree that screening technology (GEO probe) would be acceptable for future sampling. As an action item, E/A&H will provide an explanation for the differences in the TPH, VOC, and SVOC results.

State requests that we always report immediately on the detection of DNAPLs or significant groundwater contamination.

AOC 506 - State wanted us to be sure we had enough metals data at AOC 505 to justify our recommendations. There are some elevated lead numbers that probably are insignificant, but make sure we have enough data to support no action.

## **CAMP DISCUSSION**

DHEC does not have any significant problem with schedules in draft CAMP. Joe pointed out that the cover letter for the CAMP submittal should outline reasons we needed a new CAMP. Below are reason that he indicated would be acceptable and unacceptable. Joe also suggested that the RAB be notified that the schedule has been modified.

### **Acceptable Reasons**

- Aggressive and realistic schedule.
- State has had trouble reviewing within 30 days window.
- Some problems with the Navy submittals.
- EPA estimates loss of two months due to furloughs.

### **Unacceptable Reasons**

- Budget
- Holidays
- Weekends

## **UST REMOVALS**

Gabe Magwood from SOUTHDIIV joined the meeting to provide a brief overview of the tank removal actions planned for the base. He distributed a spreadsheet which listed all tanks known to exist to date and a schedule for their removal. Twenty-seven tanks are planned for removal in FY96 with the activity beginning in April. The Shipyard Detachment will be performing the work. He also mentioned the Detachment is preparing a tank management that they hope to submit to DHEC next week. EPA requests 3 copies of the plan as well as Petroleum Remediation Plan that is under development.

## **INTERIM MEASURES**

The Shipyard Detachment is currently working primarily on 3 IM work plans. They are concerned that right now the documents do not look similar in format and they want to correct this before submitting the plans for review. Doyle stated that EPA would like to be involved in the development of these work plans.

### **AOC 503 - UXO**

UXO status - funding has been approved. Indian Head EOD team has suggested two options 1) a risk analysis of all the UXO sites consisting of a review of available information to evaluate whether or not the UXO could still physically pose a risk; 2) perform a geophysical survey and handle a removal if found.

The Navy prefers to perform the risk analysis however, EPA and DHEC are concerned that the approach may not be sufficient to demonstrate the Navy has taken adequate steps to eliminate the problem or minimize their liability. The consensus of the team was to have EOD contractors look at the two proposed options and provide a second opinion along with cost estimates. E/A&H took this as an action item to be completed by the next meeting in April.

### **SWMU 14 - Chemical Disposal Area IM**

The focus of the interim measures will be to investigate the geophysical anomalies to determine if buried canisters remain.

### **AOC 698 - Boiler House at Annex**

Southern Division needs to know if the lead-based paint peeling from the building is regulated under RCRA. EPA says yes it is regulated under RCRA. State agrees that the paint should be managed as a hazardous waste.

Doyle suggests that Southern Division call Barry Lewis at the Naval Weapons Station for information on the round house remedial effort.

Need to have someone at the detachment put together a summary of each site proposed for IM for presentation to the RAB next month.

## **ROLES AND RESPONSIBILITIES FROM THE ENVIRONMENTAL RESTORATION MANAGEMENT ALLIANCE MEETING IN NOVEMBER 1995**

Team building is supposed to make the process work smoother and better, not to make everyone like one another.

### **Five Steps for Effective Meetings**

- Plan for the meeting.
- Inform all participants.
- Agenda has to be well defined.
- Structure and decision make tools.
- Summarize and record results of meeting.

Steve Fredrick showed a training film on conducting effective meetings.

Most other teams have established an official scribe, scribe will help keep meetings focussed as he tries to keep discussions and action items clear and concise.

Some teams decide on next agenda at end of current meeting - prioritize items and assign time limits to each item.

Agenda items need expansion and time allotments. Good idea to information exchange or decision points leave time for new developments.

Rotate team leader and scribe together, say have some one serve as the scribe before their turn as team leader.

State does not care to be in the process as a team leader or scribe. They see themselves as resource to this process.

Brian Stockmaster will lead the next team meeting on 09 April 1996. Leave time to extend into Tuesday. Dave Backus will be scribe for the next meeting. He needs agenda items by 01 April 1996. Agenda will go back out on 04 April 1996.

EPA is displeased with the way this team operates between meetings. We are not making team decisions between meetings. If a decision effects the team, the whole team needs to be included in the process.

Brainstorm means of operating as a team on a flip chart - record into minutes and let it be the basis of a team charter.

EPA feels they are being excluded from the information exchange.

Southern Division feels that they certainly meet and many times exceed the minimum permit required information exchange.

Proposal made to include a team charter discussion on next months agenda. Use BCP Charter as starting point.

### **BRIEF ON ENSAFE'S INVOLVEMENT WITH INDUSTRIAL CLIENTS ADJOINING NAVBASE**

Todd Haverkost describes the type of work, potential for conflict, and how we will deal with that conflict.

### **MISCELLANEOUS ITEMS**

Tony distributed a statement of work that SOUTHDIV gave to USGS which provides the basis for the groundwater model being developed.

Doyle asked if E/A&H could provide Fred Sloan with a copy of the groundwater sampling forms for Zone H so he could complete his review of the RFI report.

#### **Action Items**

- Two day meeting in APR 09-10.
- Next months agenda items
  - Charter
  - UXO Status
- TPH Memo
- Submit Zone H groundwater forms to Fred Sloan

# PT AGENDA

PT MINUTES

# PT AGENDA

# CHARLESTON



## PROJECT TEAM MEETING AGENDA

DATE/TIME: April 9 & 10, 1996, starting 9:30 am on the 9th  
 PLACE: Charleston Naval Base, Executive Conference Room, Bldg. NH-45

Tuesday, April 9, 1996

Time	Subject	Presenter
9:30 - 9:40 am	Introductions	B. Stockmaster
9:40 - 9:45 am	Review agenda	B. Stockmaster
9:45 - 10:15 am	RFI progress update	D. Fontenot
10:15 - 10:30 am	Interim measures update	B. Stockmaster
10:30 - 10:45 am	Chicora tank farm update	D. Fontenot
10:45 - 11:00 am	Break	
11:00 - 11:15 am	Discussion of Base Transition Team membership in Project Team	D. Fontenot
11:15 - 12:00 pm	Site Characterization and Analysis Penetrator System (SCAPS) results and future work	T. Hunt
12:00 - 1:00 pm	Lunch	
1:00 - 1:20 pm	CAMP adjustments	T. Hunt
1:20 - 1:50 pm	DRMO/G-RAM survey discussion	D. Fontenot
1:50 - 2:00 pm	Break	
2:00 - 3:00 pm	UXO feasibility determination discussion	B. Stockmaster

- ADD IJM PROGRESS FOR NEW SITES

- ADD BASE TRANSITION OFFICER TO DISCUSSION

Wednesday, April 10, 1996

Time	Subject	Presenter
9:00 - 9:05 am	Review agenda	B. Stockmaster
9:05 - 9:35 am	Discussion of addressing gas station free product recovery with AOC 609	T. Hunt
9:35 - 10:35 am	Develop Project Team charter	D. Fontenot
10:35 - 10:45 am	Break	
10:45 - 11:15 am	Continue Team charter	D. Fontenot
11:15 - 11:30 am	Review meeting notes	D. Backus
11:30 - 12:00 pm	Project communications	C. Lacey
12:00 - 1:00 pm	Lunch	
1:00 - 2:00 pm	Project communications continued	C. Lacey
2:00 - 2:30 pm	Facilitator comments	C. Lacey

- DISCUSS ZONE K ANALYTICAL PARAMETERS

# Agenda

# NAVAL BASE CHARLESTON PROJECT TEAM MEETING

04/19/96

11:00 AM to 12:00 PM EDT

TELEPHONE CONFERENCE CALL

**Facilitator:** Cecile Lacey

**Attendees:** Project Team Members

**Please read:** Minutes from the 9-10 April 96 Project Team Meeting

**Please bring:** Information on Interim Measure Candidates

## Agenda topics

11:00-11:05 AM	Meeting Overview	Daryle Fontenot
11:05-11:10 AM	Validate 9-10 April 96 Project Team Minutes (Decision)	Daryle Fontenot
11:10-11:40 AM	Interim Measure Candidates (Decision)	Brian Stoekmaster
11:40-11:55 AM	SWMU #2 G-RAM Work Plan (Information)	Tony Hunt
11:55-12:00 PM	April Project Team Meeting and RAB Meeting (Information)	Doyle Brittain

**Resource persons:** Joe McCauley (Tier II Link)

**Special notes:** TO GET ONLINE FOR THE CONFERENCE CALL, DIAL 1-800-403-1013 AT 11:00 AM EDT. WHEN PROMPTED, ENTER THE ACCESS CODE OF 162013. If you have any questions, please call Daryle Fontenot at (803) 820-5607 or (803) 743-9985.

Post-It* Fax Note	7671	Date	4/11/96	# of pages	1
To	DAVE BACKUS	From	DL Fontenot		
Co./Dept.		Co.	SOUTH DIV		
Phone #		Phone #	743-9985		
Fax #		Fax #	803 743-9947		

PT MINUTES

CHARLESTON PROJECT TEAM MEETING  
4/9/96

Brian Stockmaster	SDIV	803 820-7481
Daryle Fontenot	SDIV	803 743-9985 820-5607
Cecile Lacey	FACILITATOR	603 882-4616
PAUL TOMICZEK	Bechtel	423-220-2235
JEI COSTANZA	NFESC	805 482-6258
Tommy Hunt	SDIV	803 820-5525
Hayes Patterson	SDIV	803-820-5658
KEVIN TUNSTALL	SURSHIP DET	803-743-6777
Bobby DEARENART	SURSHIP DET	(803) 743-2821
Joe Bowers	SC DHEC	(803) 876-4024
ANN Ragan	SC DHEC	803 -734-4721
Todd Haverkost	E/A/H	803-884-0029
DAVE BACKUS	E/A/H	901-372-7962
Joe McCaskey	SDIV	203-220-5500
Doyle Bittain	EPA	(404) 347-3555 x 2061
Johnny Topia	DHEC	(803) 896-4179
Paul M. BORGSTRAND	DHEC	803-816-4016 fax 4002

**NAVAL BASE CHARLESTON  
PROJECT TEAM MEETING MINUTES  
APRIL 9, 1996**

Location: Naval Base Charleston, Bldg. NH-45 Executive Conference Room

Attendees:	Brian Stockmaster	SDIV/RPM	Meeting Chairperson
	Daryle Fontenot	SDIV/BEC	
	Cecile Lacey	Galileo	Facilitator
	Paul Tomiczek	Bechtel	
	Tony Hunt	SDIV/RPM	
	Kevin Tunstall	SUPSHIP DET	
	Bobby Dearhart	SUPSHIP DET	
	Joe Bowers	SCDHEC	
	Ann Ragan	SCDHEC	
	Todd Haverkost	E/A&H	
	Dave Backus	E/A&H	Meeting Scribe
	Joe McCauley	SDIV	Tier 2 Link
	Doyle Brittain	USEPA	
	Johnny Tapia	SCDHEC	
	Paul Bergstrand	SCDHEC	

Guests:	Jed Costanza	NFESC	Port Hueneme (SCAPS)
	Hayes Patterson	SDIV	Detachment Rep.
	Wayne Cotton	SDIV	PET/UST Rep.
	Gabe Magwood	SDIV	PET/UST Rep.
	Jim Moore	BTC	Base Closure Office
	Craig Smith	E/A&H	Zones D,F, & G Proj. Mgr.

0940 - **Begin Meeting, Introductions**

Regular team members

New attendees: Hayes Patterson - SDIV/Detachment Link  
Joe McCauley - Tier 2 Link  
Cecile Lacey - Facilitator  
Kevin Tunstall - SUPSHIP Detachment

0945 - **Review Agenda, B. Stockmaster**

B. Dearhart suggests adding Interim Measures discussion, specifically focussing on the process for adding new sites to the candidate list.

Suggestion made to defer this discussion to the IM update already on the agenda...  
Consensus test - passed.

D. Fontenot states that the Base Transition Coordinator (Mr. Jim Moore) has requested to sit in on the project team meeting. Mr. Moore wants to re-address the team's mission.

Suggestion made to hear Mr. Moore's concerns during the Team Charter discussion... consensus test - passed.

B. Dearhart brings up concern with past dealings associated with Mr. Moore, Bobby wants to ensure that Mr. Moore's contribution is constructive... team assigns D. Fontenot to speak with Mr. Moore prior to his attendance.

J. Bowers announces that he will be transitioning off the project and introduces Paul Bergstrand as his replacement. Paul is also a hydrogeologist in DHEC's Hazardous Waste Section, Bureau of Solid and Hazardous Waste for assessment and remediation at Department of Defense Bases. Paul distributed a personal biography listing his education, experience, and team goals. The biography is attached to these minutes.

C. Lacey suggests as a procedural issue that the team identify and limit guests to the project team meetings. Extend invitations to guests and test for team consensus before admitting to meeting... consensus test - passed. Suggestion also made to assign one person as the "gatekeeper" or sergeant at arms to all meetings to control uninvited guests and break times... consensus test - team agreed that this function shall be shared by all team members.

1000 - **RFI Progress Update, D. Fontenot**

T. Hunt states that the monthly status report has been delayed due to the permit transfer from the shipyard to SDIV. Tony offers the original copy of the status report to project team members.

T. Haverkost updates the field work summary as follows:

Zones A & B - Finished with 80% of 2nd round soil sampling, awaiting approval of Comp RFI Work Plan revisions including text on direct push technologies before completing A & B 2nd round sampling. Due for quarterly GW sampling. Zone B RFI report in regulatory review.

Zones C & I - Due for 3rd quarterly GW sampling. RFI reports in regulatory review.

Zone H - Due for 4th quarterly GW sampling. RFI report in regulatory review.

Zone E - Soil sampling complete, GW sampling 60% complete, surveying 90% complete. Data interpretation and analysis underway.

Zone K - RFI work plan has been submitted and is in regulatory review. T. Hunt has concerns about the amount of analytical that is proposed in the work plan, he would like to limit the analytical parameters to constituents identified in background information on the sites. Suggestion made to move this discussion to later in the agenda - team consensus... project communications.

T. Hunt states the shipyard detachment has proven that they can perform GW sampling and will be tasked with all subsequent rounds of quarterly sampling. The detachment will also perform all surveying and waste management activities associated with the RFI.

T. Haverkost states that the revisions to the COMP RFI work plan regulatory comments will be submitted to the Navy later this week.

Suggestion is made to provide a copy of the monthly status report to the RDA, consensus test - passed. B. Dearhart requests the shipyard detachment be added to the distribution list. D. Brittain requests an additional copy of the status report each month.

D. Brittain requests an update on the SWMU #102, Bldg. 79 investigation.

C. Lacey suggests a procedural enhancement - the "parking lot". The parking lot is a bulletin board record of those items which need further discussion or resolution at a later time. Suggestion made to post the Zone K analytical requirements and the SWMU #102, Bldg. 79 update on the parking lot... consensus test - passed.

1010 - Jim Moore, Gabe Magwood, Wayne Cotton, and Craig Smith join the meeting as guests.

#### **Interim Measures Update, B. Stockmaster**

Work plans have been submitted and conditional approval has been granted while comments are being addressed on the following sites: AOC 690, SWMU 44, SWMU 54

Shipyard detachment equipment operators will be licensed through the Charleston Naval Weapons Station.

K. Tunstall gives the following update of the 18 identified IM sites:

- 1 - Cancelled
- 2 - Held up with procedural issues - *sumo 14*
- AOC 653 - <sup>one</sup>Change in scope will now address only 1 hydraulic lift
- 2 - Have been assigned new engineers
- 6/* - Given low priority
- 1 - UXO site in marsh, awaiting EOD comments
- 2 - *PETROLUM SITES AWAITING DANK POLL WORK PLANS*
- 3 - *CURRENTLY IN FIELD*

Discussion on adding new sites to the IM list:

B. Dearhart has assigned every available IM site to teams within the detachment. Design and work plans will be completed soon. A process for identifying new candidate sites needs to be established by the team, how often can the team meet to discuss this issue?, who is responsible for identifying new sites?

B. Stockmaster states that currently, the Navy RPMs and E/A&H identify candidate sites.

D. Brittain suggests that this process should be shared by the entire team, any team member can suggest candidate sites for the list.

A. Ragan asks if we are at a point to add more sites to the IM list? Suggests separate meeting to discuss IM sites.

C. Lacey suggests regularly scheduled conference calls to discuss issues between monthly team meetings... consensus test - teleconferences added to parking lot.

Mr. Moore wants to interject... J. McCauley denies the request stating that Mr. Moore has been invited as a guest to the team meeting and will be given the opportunity to speak at the appropriate time.

Suggestion tabled to call another meeting to discuss additional candidate sites to the IM list. Physical meeting if possible - State has availability conflicts in the near future, suggest conference call.

D. Brittain states that the team needs time to prepare for discussions on additional sites. Background information as well as investigative results should be provided, if available, prior to the discussion. Then the team will be able to make decisions.

B. Stockmaster suggests formatting a one page brief on each candidate site. These briefs shall be submitted to all team members prior to discussions on additional sites added to the IM list... consensus test - team assigns B. Stockmaster with development of the IM site brief

format.

**ACTION ITEM:** Develop format for providing team members with information on additional IM candidate sites.

Responsibility: B. Stockmaster  
Due: 17 April 1996  
Team Comments: 19 April 1996

1055 - Break

1110 - **Chicora Tank Farm Update, D. Fontenot**

Introduce Wayne Cotton, SDIV Code 07 who will give update:

Funding for the tank closure will be provided by Defense Fuel Supply Center. The technical contact for the project is the Naval Petroleum Office (NAVPET).

SDIV contracted with Enterprise Engineering to analyze closure alternatives and associated costs. Enterprise Engineering submitted a report outlining 4 closure alternatives:

- 1) Fill tanks with inert material and abandon in place.
- 2) Excavate cover berm to roof level, knock in roof and recover.
- 3) Excavate cover berm to ground level, knock in roof and walls and recover.
- 4) Total demolition and removal of tank materials.

SDIV chose alternative 3, and submitted to the DHEC for approval; DHEC indicated that they would only accept alternative 1 or 4; alternative 4 was considered cost prohibitive; DHEC approved alternative 1.

W. Cotton reviewed further tasks and actions required as outlined on the handout he provided the team. The Chicora Tank Farm Update handout is included as an attachment to these meeting minutes.

D. Brittain asks if DHEC was questioned about obtaining a <sup>SOLID WASTE</sup> ~~Hazardous~~ Waste Permit for this facility.... SDIV did not ask about a permit. Contamination is not present at the site.

A. Ragan suggests that she will check with the DHEC Petroleum Division to see if other options can be looked at.

**ACTION ITEM:** Address Chicora Tank Farm closure options with DHEC Petroleum Division.

Responsibility: A. Ragan  
Due: Later today

A. Ragan suggests that the RAB be updated and included early in this decision process. Decisions made at this facility will directly affect the local community.

P. Tomiczek states that the RAC contractor is experienced in this type of closure and could perform the work much quicker than the 7 months stated in the handout update.

B. Dearhart suggests that the shipyard detachment is qualified to perform the closure work.

1130 - **Base Transition Team membership in Project Team Discussion, D. Fontenot**

Introduce Mr. Jim Moore (Base Transition Coordinator) who states that his role during the closure process is to act as a liaison between the DOD and the community. He represents the Secretary of Defense at Naval Base Charleston.

J. Moore has noticed problems with the BCT operating as a team. He does not understand the role of the project team at Naval Base Charleston.

He sees the project team in a support role to the BCT, the BCT has been empowered to make closure related decisions by statute. The project team should be responsible for finding new and innovative cleanup methods and operate as a support to the team, not a hindrance or slowdown.

J. Moore states that his comments should be focussed to the BCT and not the entire project team. Suggestion made to call a meeting with J. Moore and the BCT prior to this evenings RAB meeting... BCT consensus test - passed.

J. Moore states that other closing bases do not have project teams empowered to make decisions.

J. McCauley replies that project teams (or Tier 1) teams are wide-spread in Federal Region IV and throughout Southern Division (Navy). Additionally, he states that the ~~BTC~~ is a <sup>CORRECT</sup> ~~BEO~~

member of the Tier 1 team at Louisville, Ky.

1145 - **SCAPS Discussion, T. Hunt**

The Site Characterization and Analysis Penetrometer System (SCAPS) was developed by the Navy for petroleum contamination screening purposes. SDIV has proposed its use extensively at AOC 626, the Fuel Farm. The SCAPS unit was here at Naval Base Charleston last July (1995) for a demonstration in the Fuel Farm Area, the results will be presented to the team today.

Introduce Jed Costanza project engineer, NFESC, Port Hueneme. J. Costanza is the technical contact for the SCAPS unit and principal author of the demonstration report. The report has been submitted to SDIV for review and is available to the team upon request.

SCAPS utilizes two distinct technologies - standard cone penetrometer data for characterization of site lithologies, and laser fluorescence for characterization of the presence of petroleum products.

Laser fluorescence did not indicate petroleum contamination in any of the demonstration sample points. Ten percent of the demonstration sample points were split between SCAPS, NAVFAC, and E/A&H. ~~NAVFAC~~ ran their splits for IR method 418.1, E/A&H ran their splits for modified EPA method 8015. Correlation was good between SCAPS and conventional analytical methods for noncontaminated samples.

*PERSONNEL*

T. Hunt suggests that the demonstration should have tried to obtain correlation in areas of known contamination.

D. Brittain is concerned that this technology was not discussed by the team before implementation of the demonstration.

Suggestion made to add discussion of more team involvement in decision making to the parking lot... consensus test - passed.

D. Backus asks what is the standard turnaround time for screening level data from the SCAPS, this report is being presented 9 months after the field data was collected.

J. Costanza states that standard turnaround for a full report is approximately 2 months, but screening level data for field decisions can be provided the day of sampling. This report today is a portion of many site visits that SCAPS has performed in the last year.

Question tabled... when can the project team review the results of the report?

**ACTION ITEM:** Finalize SCAPS report incorporating SDIV comments and submit to project team for review.

Responsibility: J. Costanza  
Due: 19 April 1996

1215 - Break for Lunch

1315 - **CAMP Adjustments Discussion, T. Hunt**

The Navy has received regulatory comments on the Comprehensive Work Plan revisions and is addressing those comments.

The Navy requests a 30-day extension to the Zone A Report submittal date due to the relationship of Zone A second round sampling events and direct push technologies addressed in the Comp WP Revisions.

Analytical samples in Zone A are already being expedited to meet schedule demands.

D. Brittain suggests approving the CAMP with the 30-day extension, as opposed to approving the CAMP as is and revising it.

J. Bowers states that he would like a letter from the Navy explaining the 30-day extension request with corresponding amended page changes to the schedule.

**ACTION ITEM:** CAMP adjustment letter to DHEC

Responsibility: T. Haverkost - make schedule page changes  
T. Hunt - Draft explanation letter

Due: To DHEC by 11 April 1996

1340 - **DRMO/G-RAM Survey Discussion, D. Fontenot**

D. Brittain is concerned about what the Navy plans to do if investigation derived waste from SWMU #2 is determined to contain RAD or mixed waste.

T. Hunt explains that the Radiological Affairs Support Office (Code 07) will conduct the survey activities at SWMU #2 now that the shipyard has closed down. Cmdr. Ferrin will be the RASO Project Manager.

Disposal Options - Navy Radwaste Disposal Board coordinated with EPA and the associated States to identify acceptable disposal options.

NAVSEA developed a work plan for SWMU #2, T. Hunt will locate that plan and distribute to the team.

D. Brittain requests that Virgil Autry, Ann Ragan and Joe Bowers with DHEC receive copies of the NAVSEA work plan.

D. Brittain restates that his biggest concern is that disposal answers need to be addressed in the work plan before any samples are collected. If samples are collected and indicate RAD or mixed waste without disposal options secured, the Navy has no legal means of storing the waste.

A. Ragan suggests that EnviroCare in Clive, UT might be a possibility.

B. Dearhart states that the Navy has contacted them and they currently have capacity problems with accepting new waste.

**ACTION ITEM:** Make sure SWMU #2 work plan includes RAD screening procedures and plans for disposal options for all possible forms of waste including:

- a) Hazardous waste
- b) RAD waste
- c) Mixed waste
- d) TSCA waste (PCBs, asbestos, etc.)

Responsibilities: T. Hunt will coordinate with RASO, Locate the NAVSEA work plan for SWMU #2, and make sure that all disposal options are secured and listed in the work plan.

Due: RASO coordination and NAVSEA work plan by 19 April 1996

1355 - Break

1405 - **UXO Feasibility Determination Discussion, B.Stockmaster**

K. Tunstall has received a draft letter from the Navy's EOD team at Indian Head. Our UXO contact at Indian Head is Andy Peterson. The letter states that the EOD teams mission is to identify and render safe UXO sites within Navy property. The EOD team from the Charleston Naval Weapons Station attempted to locate the waterborne UXO sites in 1986 with no success. The Indian Head EOD team visited the AOC 503 site in February of this year.

Any work performed at these sites must go through the Indian Head EOD team for work plan approval.

D. Backus reports on the 2nd opinion of three private EOD firms that were solicited to develop an opinion of the NAVBASE UXO sites. A UXO handout is attached to these meeting minutes. The private firm opinions varied from agreement with the Navy's stance that a risk analysis could show that the UXO no longer poses a physical hazard to a very real hazard still exists and a geophysical survey is warranted.

Team members were in general agreement that the potential for a physical hazard still exists, but the question was posed - What constitutes a reasonable or prudent search, what should the limits or boundaries of that search be?

J. Bowers stated that DHEC will insist that some physical survey be performed.

After some more discussion, a consensus was reached that defining the limits of a search or defining the acceptable limits of liability is a BCT issue, or a matter of agency policy to be discussed by the BCT members.

**ACTION ITEM:** Each agency should review the UXO handout and be prepared to discuss the limits of a due diligent search during a team conference call on 19 April 1996.

Responsibility: USEPA, SCDHEC, USNAVY - BCT  
Due: 19 April 1996

1510 - Adjourn meeting for the day.

**NAVAL BASE CHARLESTON  
PROJECT TEAM MEETING MINUTES  
APRIL 10, 1996**

0900 - **Review Agenda, B. Stockmaster**

Suggestion made to move the 19 April conference call to 1100 EDT... consensus test - passed.

0905 - **AOC 609 Free Product Recovery Discussion, T. Hunt**

Question posed: Do we include the UST Program free product recovery efforts at Bldg. 1649 with the scope of work proposed for the waste oil tank at AOC 609?

In 1993, S&ME investigated and proposed a free product recovery trench at the gas station (Bldg. 1649). The trench was installed and a significant amount of free product was recovered during installation, but subsequent to that, the trench has operated with little success.

J. Bowers states that Tim Metlin (SCDHEC UST Division) does not agree with the Navy's proposal to cease operation of the trench.

T. Hunt suggests that this site should be handled under the NAVBASE UST Tank Management Plan.

J. Bowers states that we as a team need to identify which SWMUs or AOCs need to be handled by the UST Program, including documentation and justification for taking it out of the RFI process.

D. Brittain requests that EPA be copied on all correspondence, including UST Program Management. Doyle would also like a copy of all correspondence to date concerning this issue.

Should this site continue to be managed under the UST Program?... consensus test - passed.  
J. Bowers will inform and coordinate with Tim Metlin.

0920 - Break

0940 - **Develop Project Team Charter, D. Fontenot**

J. McCauley (Tier 2 Link) suggests discussing project team ground rules before developing the team charter... consensus test - passed. D. Brittain hands out copies of the BCT team charter.

0945 - **Discussion of Last Night's RAB Meeting, B. Stockmaster**

Discussion began with an observation that there was a lack of team unity last night during the RFI update to the RAB members.

C. Lacey suggests a round table discussion of the presentation last night including the perception that the team is dysfunctional.

NO SURPRISES added to the parking lot.

J. McCauley directs the BEC and Navy RPMs that any ~~money~~ <sup>PROJECT</sup> proposed on this project will be brought before the project team and tested for consensus prior to ~~the money being spent.~~ <sup>PROCEEDING.</sup>

Round table discussion focusses on the issues of trust, communication, and team work skills.

1050 - Break

1105 - **Continue Discussion of Team Unity and Perception to the Public, C. Lacey**

C. Lacey leads a wrap up of the preceding exercise and round table discussions. "Perception is Reality" if the public perceives that the team is dysfunctional, they will believe that we are.

Common Themes from the Roundtable:

- Breach of Trust
- Better Preparation for RAB Presentations
- Disappointment
- Caught by Surprise
- Need Better Communication
- Respect
- Lack of Teaming/Solidarity
- Team Division (Perception of BCT vs. Project Team)

J. McCauley states that the Cecil Field Team has the facilitator attend the RAB meetings and prepares a critique and debrief the next day. Suggests we do the same... consensus test - passed.

1130 - **Team Conduct Ground Rules, C. Lacey**

The facilitator is here as a resource to provide tools to make the team function better and resolve conflicts.

J. McCauley offers to pass out copies of the Tier 2 meeting ground rules.

Question posed: Does this team agree to continue to operate under the guidelines of the partnering initiative?... consensus test - passed.

Discussion on the role of the BCT within the project team.

**ACTION ITEM:** BCT to meet and define the inherent project team responsibilities beyond policy issues.

Responsibility:	BCT
Due:	Before next Project Team Meeting

1200 - Break for lunch

1315 - **Team Conduct Ground Rules cont., C. Lacey**

Brainstorm Tier 2 ground rules as starting point for this teams rules. Discussion progressed in a roundtable manner. Those rules listed passed consensus of the team:

- Clear agenda with clear goals and follow it
- Action items with follow up and closure
- Respect others position/ have open mind relating to respect
- Be on time to meetings and returns from breaks
- Changing meeting times requires team consensus
- Prioritize agenda at beginning of each day
- Operate by consensus and take time to affirm
- Meetings are a priority/ schedule so every team member can attend
- All issues will be brought to the table and dealt with as a team
- Have fun
- Work in good faith as equals
- No side conversations

Brainstorm BCT ground rules in the same manner. Those rules listed passed team consensus:

- Agenda before meetings
- Avoid surprises
- Other players by invitation
- Be flexible to add new issues
- Minutes/ notes - record of action items and decisions
- Be open
- Be proactive and innovative

Open roundtable brainstorm of other potential ground rules:

- Be professional
- Maintain open communication
- TEAM/me
- No hidden agendas
- Focus on goals -
- Alternate meeting Chair and Scribe responsibility
- Agenda items will be identified as “information only” or “decision required”
- Team will maintain project listing with current status
- Respect each others position
- Resolve conflict
- Address concerns of all team members
- Bring skills, expertise, and resources to the team
- Be flexible

C. Lacey will type up these lists, suggest adding team ground rules to next meetings agenda... consensus test - passed.

1425 - Break

1430 - **Facilitator Review, C. Lacey**

Next meeting set for May 14, 15, 1996.

Chair: D. Backus  
Scribe: P. Bergstrand

1600 - Adjourn meeting

### ACTION ITEM SUMMARY

	<u>Action</u>	<u>Responsibility</u>	<u>Due</u>
1)	Develop format for adding new IM sites Team comments on format	B. Stockmaster Team	4/17 4/19
2)	Research options of DHEC regarding Chicora Tank Closure	A. Ragan	4/10
3)	Amendment letter to CAMP	T. Hunt T. Haverkost	4/11
4)	Locate NAVSEA SWMU #2 Work Plan/ Amendment to SWMU #2 Work Plan	T. Hunt	4/19
5)	Set up team conference call <del>Follow up</del> <del>issues, Next meeting agenda</del> <del>including disposal alternatives.</del>	D. Fontenot	4/19 1100
6)	Meeting of BCT to identify responsibilities beyond policy, <i>OXO Discussion</i>	BCT	Before 5/14
7)	Develop candidate IM list and distribute to team members	B. Stockmaster	4/11
8)	Team decisions on proposed IM list at next conference call	Team	4/19

**PARKING LOT ISSUES**

<u>Issue</u>	<u>Action</u>
1) Zone K - Analytical requirements	Agenda item next team meeting
2) Zone E - Status of Bldg. 79	Agenda item next team meeting
3) Discuss more team involvement in decision making	Captured in ground rules exercise
4) Teleconferences	First set for 4/19, Agenda item in Next team meeting
5) Identify lingering issues and address	Agenda item next team meeting

**PROPOSED AGENDA - MAY**

*VALIDATE, PRIORITIZE AND ADJUST TIMES OF AGENDA*

- 1) Discuss Zone K analytical requirements, "decision required" - T. Hunt
- 2) Present and discuss Bldg. 79 investigation results, "information only" - D. Backus
- 3) Discuss improved communication and teleconferences, "decision required" - C. Lacey
- 4) Identify and develop outstanding project list, "information only" - T. Hunt
- 5) Review status of April Action Items, "information only" - Team
- 6) Discuss RAB presentations, "information only" - Team
- 7) Interim Measures, "information/decision?" - B. Dearhart < *PRIORITIES CANDIDATE SITES UPDATE*
- 8) *REPORT ON ACTION ITEM 6 - D. FONTENOT* "INFORMATION ONLY"
- 9) *FINALIZE AND ADOPT TEAM GROUND RULES - TEAM* "DECISION REQUIRED"
- 10) *MOVE RFI SITES TO UST PROGRAM*
- 11) *DISCUSS UPDATE OF ENVIRONMENTAL CONDITION OF PROPERTY AND*

# CHARLESTON



## PROJECT TEAM MEETING AGENDA

DATE/TIME: April 9 & 10, 1996, starting 9:30 am on the 9th  
PLACE: Charleston Naval Base, Executive Conference Room, Bldg. NH-45

Tuesday, April 9, 1996

Time	Subject	Presenter
9:30 - 9:40 am	Introductions	B. Stockmaster
9:40 - 9:45 am	Review agenda	B. Stockmaster
9:45 - 10:15 am	RFI progress update	D. Fontenot
10:15 - 10:30 am	Interim measures update	B. Stockmaster
10:30 - 10:45 am	Chicora tank farm update	D. Fontenot
10:45 - 11:00 am	Break	
11:00 - 11:15 am	Discussion of Base Transition Team membership in Project Team	D. Fontenot
11:15 - 12:00 pm	Site Characterization and Analysis Penetrator System (SCAPS) results and future work	T. Hunt
12:00 - 1:00 pm	Lunch	
1:00 - 1:20 pm	CAMP adjustments	T. Hunt
1:20 - 1:50 pm	DRMO/G-RAM survey discussion	D. Fontenot
1:50 - 2:00 pm	Break	
2:00 - 3:00 pm	UXO feasibility determination discussion	B. Stockmaster

Wednesday, April 10, 1996

Time	Subject	Presenter
9:00 - 9:05 am	Review agenda	B. Stockmaster
9:05 - 9:35 am	Discussion of addressing gas station free product recovery with AOC 609	T. Hunt
9:35 - 10:35 am	Develop Project Team charter	D. Fontenot
10:35 - 10:45 am	Break	
10:45 - 11:15 am	Continue Team charter	D. Fontenot
11:15 - 11:30 am	Review meeting notes	D. Backus
11:30 - 12:00 pm	Project communications	C. Lacey
12:00 - 1:00 pm	Lunch	
1:00 - 2:00 pm	Project communications continued	C. Lacey
2:00 - 2:30 pm	Facilitator comments	C. Lacey

## **Paul M. Bergstrand**

2600 Bull Street, Columbia, SC 29201  
Office # 803-896-4016 Fax # 803-896-4002  
bergstpm@columb34.dhec.state.sc.us

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### **EDUCATION**

MS Geology, December 1991, Miami University, Oxford, Ohio  
BS Geology, May 1985, College of Charleston, Charleston, SC  
BS Marine Biology, May 1981, College of Charleston, Charleston, SC

### **TECHNICAL/TRAINING**

South Carolina Geologist in Training  
Forty hour OSHA  
Kepner-Tregoe  
Partnering

### **BACKGROUND**

Hazardous Waste Section, Bureau of Solid and Hazardous Waste. RCRA program area Hydrogeologist for assessment and remediation at Department of Defense Bases.

UST Regulatory Section, Bureau of Drinking Water Protection. Hydrogeologist for review of UST closure assessment reports.

State Corrective Action Section, Bureau of Drinking Water Protection. Project Hydrogeologist for SC SUPERB program funded UST site rehabilitation.

### **GOALS**

The underlying goal of the CNS BCT is to provide a timely return of the property to safe, productive use by working in concert with the Local Redevelopment Authority. My fundamental goal is to participate with the CNS BCT to make environmental decisions in order to transfer or lease property for reuse.

### **PLEDGE**

To help accomplish the goal of the CNS BCT I will endeavor to:

- Fast-track data interpretation and decision making.
- Set team priorities and reach consensus.
- Be responsive to all members of the team.
- Employ progressive meeting skills to improve team productivity.

### **EXPECTATIONS**

I expect to be included as an equal in all decisions which involve the CNS BCT.

## **CHICORA TANK FARM UPDATE**

**Date:** 09 April 1996

**Location:** Building NH-45, Executive Conference Room  
Charleston, SC

**SOUTHDIV Task:** To Take Appropriate Action to Dispose of Chicora Tank Farm

**Funding Source:** Defense Fuel Supply Center (DFSC)

**Point of Contact:** DFSC has appointed the Naval Petroleum Office (NAVPET) as our POC

### **Actions Taken:**

- Contracted with Enterprise Engineering to analyze alternatives and associated costs
- Report submitted detailing 4 alternatives
- DHEC has visited the site on two occasions and indicated that they will only accept abandonment or total demolition/removal
- SOUTHDIV Project Team met and decided to pursue the abandonment option
- NAVPET felt cost estimate was excessive and requested that it be revised
- Enterprise revised the estimate to comply with NAVPET request
- SOUTHDIV sent letter to NAVPET/DFSC showing revised cost estimate and requesting authority to proceed
- Currently awaiting response from NAVPET/DFSC

### **Required Action:**

- Obtain authority to proceed and promise to pay from NAVPET/DFSC
- Notify DHEC of our plans in writing
- Meet with RAB and obtain their approval
- Amend Enterprise Engineering's contract to produce a bid package
- Analyze options for inert fill material - COMBO SAND/FOAM
- Award demolition contract

### **Schedule:**

- Dependent upon NAVPET/DFSC Action
- If standard solicitation process is used, work would begin at the site approximately seven months after authority to proceed from NAVPET/DFSC

**UXO SITES UPDATE  
SUMMARY OF PRIVATE VENDOR OPINIONS  
NAVAL BASE CHARLESTON PROJECT TEAM MEETING**

Following the last project team meeting, EnSafe/Allen & Hoshall (E/A&H) solicited a second opinion of the Navy EOD team's report regarding the unexploded ordnance at AOCs 500, 501, 502, and 503. E/A&H contacted three private EOD vendors requesting their opinion on the Navy EOD proposal to perform a risk analysis of the UXO sites based on the specifications of the ordnance, the time elapsed since deposition, and the physical environment. In addition, E/A&H provided each vendor with the background information from the RFA and requested what approach each vendor would recommend. The following vendors provided a response to the request:

EOD Technology Group  
10511 Hardin Valley Road  
Knoxville, TN 37932

Ordnance/Explosives Environmental Services, Inc.  
500 Wynn Drive, Suite 504  
Huntsville, AL 35816

Reactives Management Corporation  
1025 Executive Blvd., Suite 101  
Chesapeake, VA 23320

The vendor response opinions are mixed with one vendor completely agreeing with the Navy EOD risk analysis approach. One vendor suggests a hybrid approach defined as a risk analysis followed by a geophysical survey with the extent of the search predicated on the results of the risk analysis. The last vendor feels all the sites present a very real hazard, but the river sites should be permanently marked on all maps and charts and left in place, the land based site (AOC 503) should be located and recovered if possible.

E/A&H has attached the proposals from each vendor to provide supporting information for the project team. Once the project team has agreed upon an approach, E/A&H will be ready to provide subcontractor oversight if necessary.



# REACTIVES MANAGEMENT CORPORATION

WASTE MANAGEMENT ♦ TRAINING ♦ TECHNICAL SERVICES

April 3, 1996

EnSafe / Allen & Hoshall  
 ATTN: David Backus  
 Shelby Oaks Plaza  
 5909 Shelby Oaks Drive, Suite 201  
 Memphis, TN 38134

Dear Mr. Backus:

This is in response to your letter of March 11, 1996, concerning unexploded ordnance (UXO) in several Areas of Concern (AOC) at Charleston Naval Base. AOC 500, 501, and 502 will be discussed as a common AOC. AOC 503 will be dealt with separately. We will begin with general comments. A summary of the UXO discussed in this report is presented in Table 1:

Area of Concern (AOC)	Location	Ordnance	Number
500	Adjacent to Pier T	MK 47 Depth Bomb	2
501	Water near Bldgs X-54/55	MK 47 Depth Bomb	2
502	Between Piers G & H	5-Inch Gun Shell	3
503	Wooded wetlands	MK 17 Depth Bomb	2

In general, at all AOC's, it may be reasonable to ask why the ordnance should be removed. Some type of maritime or industrial operations have been conducted in or around the AOC's for the last 50 years. No detonations have occurred. The explosive components of the ordnance (see TORPEX table below) pose both short- and long- term toxic hazards to biota but there is a relatively small amount of explosive materials in a relatively large tidal river. Does a hazard really exist? Is it worth the expense to remove material that has not caused significant physical damage for more that 50 years?

On the other hand, we (Reactivities Management) have personal and corporate experience confirming that both 40 year old TORPEX and 30-year old artillery shells will undergo high-order detonations. The MK 47 depth bomb has a net explosive weight (NEW) of 252 pounds. At 40 feet from a detonation (the approximate depth of the water), this would create an overpressure of 9.36 psi in air and cause soil movement with a velocity of approximately 36 inches per second (ips). That overpressure kills people and destroys buildings. An overpressure of 3.0 psi severely damages conventional structures. The US Bureau of Mines sets a maximum overpressure of 0.03 psi for commercial blasting. The soil movement of 36 ips will cause buildings to collapse and destroy underground pipes, utility lines and

foundations. The Bureau of Mines limits soil velocity to 2.0 inches per second for commercial blasting. When comparing numbers (overpressures of 0.03 or 3.0 or 9.36 psi or soil velocities 2.0 and 36 ips) it is critical to recognize that blast effect scales are logarithmic, not linear. In addition, water is a good transmitter of shock waves. This means that the submerged ordnance will have less air blast (overpressure) but greater ground -- or water -- shock. Thus a significant explosive hazard exists. Similar values for the 5-inch shells at AOC 502 are overpressures of 2.70 psi at 40 feet, 0.13 psi at 500 feet and soil velocities of 3.19 ips at 40 feet and 0.06 ips at 500 feet. From these calculations, it is obvious that a life-threatening condition exists at all AOC's with UXO.

A rule of thumb in managing chemical-containing (mustard, nerve, and similar agents) UXO is that the steel shell case will degrade or collapse in 75 years and the agent will weather or degrade in 75 years. Assuming that steel is steel and nitrated compounds degrade at roughly the same rate as chemical agents, the explosive hazards described above will exist for another century. Burying ordnance in anaerobic muds and silts will tend to slow down all oxidation processes, making both the steel casings and explosive fillers last longer. If the UXO is not removed, there may also be CERCLA, RCRA, and some common law liabilities.

AOC 500 and 501 both contain MK 47 TORPEX Depth Bombs. These are relatively thin steel skinned munitions. Ferrous clad munitions can be located with magnetometers. From personal experience, the area near piers (AOC 500 - Pier T; AOC 501 - Bldgs X-54 and X-55) will be heavily contaminated with a wide variety of ferrous objects. The type and size of these objects are limited only by the imagination and strength of personnel on ships and piers. Given the storm surges from hurricanes and nor'easters and bottom changes from dredging operations, it is certain that the MK 47's have moved significantly from their original locations.

There are three types of TORPEX listed by current military manuals. They consist of:

Component	Per cent Composition		
	TORPEX 2 (unwaxed)	TORPEX 2 (waxed)	TORPEX 3
RDX (cyclo-trimethylene-trinitramine)	42	41.6	41.4
TNT (trinitro-toluene)	40	39.4	39.5
Aluminum powder	18	18.0	17.9
Wax	--	0.7	0.7
Calcium chloride	--	--	0.5

Field tests or screening kits for RDX and TNT are commercially available. However, they will be of little use in attempting to locate the MK 47 due to the huge dilution of explosives by water.

AOC 502 contains smaller ordnance (5-inch diameter shells with approximately 12 pounds NEW) but is similar to the other water AOC's. As above, it is virtually certain that the shells, if in fact they hit the area where they were allegedly dropped, have been moved by currents, storm surges, and dredging operations. Field screening kits will be of little use in locating the bombs. If they exist, they will probably be in areas highly contaminated with ferrous debris and various objects, making location difficult.

AOC 503 contains ordnance similar to AOC's 500 and 501, but under different circumstances. Steel clad munitions (MK 17 Depth Bombs) with mixed explosives and aluminum are approximately located on base maps. Both the steel bomb casings and the explosives are similar to the MK 47's discussed above. Hazards, acute and chronic, physical and mechanical, are similar to those outlined above. A major difference with AOC 503 is the UXO is located in wooded wetlands, not in the water. This will make location and recovery easier.

Costs for UXO work is generally based on a time and materials basis. Reactives Management unit prices for UXO work are:

**Mobilization/Demobilization (once per project)**

**Travel:**

Personnel: 2 men X 16 hours round trip X \$29.75/hour  
 Vehicle: 800 miles X \$0.35/mile  
 2 days rental X \$35/day

**Site Time:**

Project manager (EOD qualified): 8 hours X \$87.50/hr  
 Reactives technician (EOD qualified): 8 hours X \$77.50/hr  
 Vehicle: daily rental + local mileage (approximate):  
 Schonstedt low sensitivity magnetometer: 2 X \$50/day  
 Foerster Ferex MK 26 high sensitivity magnetometer: 1 X \$125.00  
 Flags, marking tape, consumable supplies, per day:

Per diem: \$94.00 per man per day X 2 men

Thus, mobilization and demobilization would be approximately from Norfolk, VA. Daily billing would be approximately Based on our experience, it would take up to 3 or 4 days to find the MK 17 bombs in AOC 503. Depending on how "wooded" the wetlands are, backhocs and chain saws may be required. We have no corporate experience in underwater location and recovery. However, we estimate daily costs of approximately

One staff member has personal experience in locating and recovering UXO at a supposedly known site near a pier. A four man crew was involved for over one month.

In summary, we believe:

a. World War II era ordnance will pose an explosive hazard well into the next century. This explosive hazard is significant. Some type of chronic, chemical hazard may exist but it not significant.

b. Ordnance located on the surface should be located and recovered.

c. Ordnance located in water should be identified on appropriate charts, marked on all official documents and left in place.

d. Cost and time estimates included in the above discussions are general estimates. Specific working conditions, local operating restraints and permitting by local and state agencies may significantly increase both time and costs.

If you <sup>need</sup> have any additional information, contact me at:

Reactives Management Corporation  
1025 Executive Blvd, Ste 101  
Chesapeake, VA 23320

Office telephone: 804-436-1033  
24-hour telephone: 804-498-2539  
Fax number: 804-548-2808

We hope to continue to work with Ensafe/ Allen & Hoshall.

Sincerely,

  
George C. Walton, CHMM (ML), FAIC  
President



Ordnance/Explosives  
Environmental  
Services, Inc.

April 3, 1996

Mr. Dave Backus  
EnSafe/Allen & Hoshall  
Shelby Oaks Plaza  
5909 Shelby Oaks Dr.  
Suite 201  
Memphis, TN 38143

Subject: Request for Second Opinion: Naval Base Charleston UXO Sites

Dear Mr. Backus:

Ordnance/Explosives Environmental Services, Inc. (OES) (a wholly owned subsidiary of ESE) is pleased to respond to your request for a proposal and second opinion concerning UXO sites at Naval Base Charleston, S.C.

OES offers the following opinions pertaining to the Areas of Concern (AOC) addressed in your letter:

1. **AOC # 500 - UXO Site Between Piers S and T (two MK 47 Torpex Depth Bombs)**
  - OES concurs with the Naval EOD team's proposed risk assessment to research the components and construction materials of the ordnance along with the physical environment in which the UXOs have rested. As the case thickness of the bombs is only .06 inches, it may be possible that the exterior of the bombs has deteriorated to the extent that the internal filler has been exposed and dissipated so that the items no longer present a hazard to human health or the environment. However, while OES concurs with the EOD team's approach, we feel that it would be irresponsible not to also undertake a geophysical search for the items. It may well be that the chance of locating the items is slim, but without searching, we will never know. In our opinion, a geophysical search should be conducted but the **extent** of the search should be predicated on the results of the risk assessment.
  
2. **AOC # 501 - UXO Site in Cooper River East of Buildings X-54 and X-555 (two MK 47 Torpex Depth Bombs)**
  - OES concurs with the Naval EOD team's proposed risk assessment, but in

addition recommends a geophysical survey for the same reasons as identified for AOC # 500.

3. AOC # 502 - UXO Site Between Piers G and H (three 5-inch shells)

- OES concurs with the Naval EOD team's recommendation to perform a risk analysis, but again also recommends a geophysical search for the items. Since the cases of the 5-inch rounds are much thicker than the depth bombs, it is most probable that they are intact at the present time.

4. AOC # 503 - UXO Site South of Building 665 (two MK 17 Depth Bombs)

- Again, OES concurs with the Naval EOD team's recommendation to perform a risk assessment with the provision that a geophysical survey also be performed. Since the case thickness of these items is the same as the MK 47 depth bombs (.06 inches), it may well be that the items have corroded to the extent that the explosive filler may have been eroded or washed away. The extent of the survey should depend upon the results of the assessment.

5. Should the Navy and EnSafe/Allen & Hosball wish OES, Inc. to undertake a geophysical/underwater search, and as the extent of any such search required is unknown at this time, we would perform the operation on a cost plus fixed fee basis as outlined below and in the attached costing.

- Task # 1 Site Visit. Field Manager and Site Safety and Health Officer/Dive Team Supervisor on site for two days:
- Task # 2 Prepare work plan/site safety and health plan:
- Task # 3 Mob/demob six personnel (Project Manager for one day only):
- Task # 4 Perform geophysical search/diving for AOCs #500, 501 and 502:  
*per day* for four divers and one Field Manager/Sr. UXO Supervisor.
- Task # 5 Perform geophysical/visual search for AOCs # 503: *per day*  
for five UXO personnel.
- Task # 6 After action report.

6. The costs provided are estimates and assume that Navy EOD would perform any render safe procedure/recovery/disposal required, that operations would not be hampered by weather and that OES would have reasonable access to the search areas/exclusion zones. The estimates also assume that the diving portion of the project would be completed when the water was warm enough to use wet suits rather than dry suits. The actual cost would be based on the overhead,

G & A and fee rates as specified in the attached costings.

7. The length of time required for tasks # 4 and # 5 are unknown and would vary depending upon such factors such how large an area would require searching, the number of magnetic anomalies encountered and the extent of the search required based on the results of the Navy's risk assessment. As a general rule, OES estimates that with 10 anomalies per acre, approximately .5 acres per day could be searched. A site visit could provide a more accurate estimate of the amount of time required.

9. If you require any further information, please do not hesitate to contact John Stine or me at 205-830-4847, or:

OES  
500 Wynn Drive  
Suite 504  
Huntsville, AL 35816

Sincerely,

**Ordnance/Explosives Environmental Services, Inc.**



Wayne Evans  
Senior UXO Supervisor

cc: J. Stine  
File

April 4, 1996

Dave Backus  
Ensafe  
5909 Shelby Oaks Plaza, Suite 201  
Memphis, TN 38134

Reference: 160406

Subject: Second Opinion - Naval Base Charleston UXO Site

Dear Dave:

Based on the information provided, EODT Services concurs with the Navy project manager's approach and Navy EOD's proposed risk assessment.

The environment in which the ordnance is located, coupled with the number of estimated magnetic anomalies in these same areas, could be astronomical. The anomalies would both mask any effective search and any attempt to locate and remove the UXO.

In our opinion, the hazards to physical health and the environment are not sufficient enough to warrant the expense of conducting a geophysical survey/detection of these items.

Should the proposed risk assessment indicate the necessity of a geophysical survey, the cost estimate for a survey of one week's duration is . This would not include any physical verification ie: Diving/excavation of anomalies detected and plotted during the survey. If diving/excavation were required, it would take approximately three weeks and cost . These are rough estimates and could increase as much as 25%, depending on level of contamination, depth, ease of recovery, etc.

Should you have any questions, please don't hesitate to call me at 423/690-6061.

Sincerely yours,

EODT SERVICES, INC.

M. E. Short  
Vice-President

## CANDIDATE INTERIM MEASURES for conference call on 04/19/96

	SITE	ZONE	PROPOSED ACTION
PASSED	SWMU 38	A	Pesticide contaminated soil removal
PASSED	SWMU 42	A	Soil removal, lead contamination
FAILED	AOC 571	E	Cleanup of residual paint debris
PASSED	SWMU 109	G	Possible blast grit removal, pending sampling results
PASSED	SWMU 25	E	Need to look at process closure data to identify possible extent of contamination. No RPT data available to date. (bldg. 44)
PASSED	SWMU 83	E	If not covered by process closure, additional IM work may be required.
PASSED	AOC 609	F	Waste oil tank removal - (NEED MORE INFO)
PASSED	AOC 626	G	Possible containment system to collect previously noted free product during periods of high water level, and/or removal of source if identifiable.
PASSED	SWMU 178	H	Removal of petroleum impacted soils

PULL TOGETHER SUMMARY OF RFI AIR DATA COORDINATE W/ DETACHMENT

note: SWMU 25: Data needed to evaluate this site may not be readily available by all for evaluation. Once I receive it I will promulgate to all

Please look over this list of candidate interim measures and be prepared to provide input to reach a decision as to whether these additional sites are suitable as an interim action. Specific comment topics to address are: proposed action, identification of additional information needed to select site or conduct field activities, priority ranking. Other comments regarding these proposed sites are encouraged.

Post-It™ brand fax transmittal memo 7671 # of pages > 1

To: Dave Backus	From: B. Stockmaster
Co: ENSAFE	Co: SDIU
Dept:	Phone #: 803 820 7481
Fax #: (901) 372-2454	Fax #:

**INTERIM MEASURE CANDIDATE FORM INSTRUCTIONS**

Submitted by: Name of person submitting form

Date: Date of submittal

**SITE INFORMATION** (to be filled out by person submitting form)

Site nomenclature: name given to site (i.e. SWMU or AOC)

Zone: Zone in which sites is considered

Site description: Provide a brief description of the site and any pertinent information necessary for consideration as an interim measure. Provide an attachment if necessary.

Proposed objective: Provide a brief statement of the proposed objective of this interim measure. Provide an attachment if necessary.

**PROJECT TEAM ACTION** (to be filled out by Project Team)

Date considered: Date in which the Project Team considers this site.

Decision: Indicate with an "x" the decision of the Project Team

Comments: Comments are required concerning the reason for rejection or as an explanation of other by the Project Team. Comments may also be provided for an accepted site to provide any amplifying instructions or remarks.

Priority: Indicate with an "x" the priority the Project Team determines for this site. Priority is ranked against a category of High, Medium, or Low based on potential or realized property reuse and the degree of difficulty considered to implement the interim measure.

**NAVAL BASE CHARLESTON  
PROJECT TEAM CONFERENCE CALL MINUTES  
APRIL 19, 1996**

Location:           Various

Participants:	Daryle Fontenot	SDIV/BEC	Meeting Chairperson
	Tony Hunt	SDIV/RPM	Meeting Scribe
	Joe McCauley	SDIV	Tier 2 Link
	Brian Stockmaster	SDIV/RPM	
	Hayes Patterson	SDIV	
	Paul Bergstrand	SCDHEC	
	Johnny Tapia	SCDHEC	
	Doyle Brittain	USEPA	
	Dave Backus	E/A&H	
	Paul Tomiczek	Bechtel	
	Cecile Lacey	Galileo	
	Kevin Tunstall	SUPSHIP DET	

**1110 - Meeting Began, Roll Call**

Daryle Fontenot began the meeting by calling a roll of expected participants. Todd Haverkost was absent but was represented by Dave Backus. Johnny Tapia is representing SCDHEC. Paul Bergstrand joined afterward.

**1115 - Discussion on Assignment of Scribe duties**

A suggestion was made that SDIV provide a person for recording the meeting minutes. Dave Backus mentioned that E/A&H has personnel available that are familiar with environmental language and experienced at this type of task. Joe McCauley stated that Tier 2 assigns this task to each member. Tony Hunt volunteered to act as scribe for this conference call. There was no further discussion on assignment of scribe duties.

**1120 - Review of April 9, 1996 Meeting Minutes**

**Summary of changes**

- 1.) Page 10, Action Item for BCT due 4/19; Add to BCT agenda for next week.
- 2.) Page 15, Action Item for Chicora; Change due date to 4/22, Johnny responsible.
- 3.) Page 16, Proposed agenda - May; Add item 6A, report on BCT decision on UXO, Daryle presenting.
- 4.) Page 12, fourth paragraph under RAB meeting discussion; Restate, "Joe McCauley directs the BEC and Navy RPMs that any project proposed will be brought before the Project Team and tested for consensus prior to proceeding".
- 5.) Page 6, 2nd to last paragraph; Change "Hazardous" to "Solid".
- 6.) Page 7, 4th paragraph; Change 2nd and 3rd sentence to read "between SCAPS personnel and E/A&H. SCAPS personnel ran their..."
- 7.) Page 15, Action Item 5; Delete sentence that begins, "Next meeting..."

Dave will bring copies and page changes to the next meeting. A procedural issue was proposed that would require final minutes to be distributed after review and concurrence of the

team. No action was taken on the proposal. Discussion on ground rules was already an agenda item at the May Project Team meeting.

#### 1145 - Interim Measure Candidates

Summary of Decisions (Refer to handouts provided prior to conference call)

1.) SWMU 38; Preliminary scope is removal of a small area of contaminated soil which has been further defined by a second phase of sampling.

Consensus test to add to list of Interim Measures - passed.

2.) SWMU 42; Preliminary scope is removal of a small amount of contaminated soil adjacent to building 1803 and south near the railroad tracks.

Consensus test to add to list of Interim Measures - passed.

3.) AOC 571 - Paint booth in Building 177. Discussion centered around whether samples had been taken to determine if hazardous waste remained. Not enough information was available to make a decision so the proposal was made to remove from the list.

Consensus test to remove from consideration at this time - passed.

4.) SWMU 109 - Abrasive blast grit area.

Consensus test to add to list of Interim Measures - passed.

5.) SWMU 25 - Old electroplating facility. Preliminary scope is to remove contamination from interior of structure in preparation for demolition.

Consensus test to add to list of Interim Measures - passed.

6.) SMWU 83 - Old foundry. Preliminary scope is to remove lead dust and residue and PCB contamination in the interior of the building. Smoulder pots, ovens and motor generators still remain within the facility. This equipment was not addressed in the process closure of the facility. Kevin stated that the process closure plan for the facility only addresses the cleaning of the pipe trenches which would occur as part of the remediation effort. Dave has results of particulate sampling stations that were placed in the building during Zone E work. Dave will coordinate with Kevin to provide these results.

Consensus test to add to list of Interim Measures - passed.

7.) AOC 609 - Waste Oil Tank. This tank may be a candidate for removal under the UST program. It was not clearly understood why this tank was included as an AOC to begin with. No sample results were available for the tank contents. Kevin volunteered as an action item to find either data or sample tank to provide this information. Depending on the contents of the tank the removal of the tank may proceed under the UST program. As an action item Tony is to distribute the SCDHEC policy provided by Joe Bowers.

Consensus test was not taken.

8.) AOC 626 - Fuel farm area. The preliminary scope at this site is removal of petroleum saturated soil and installation of a free product recovery system at the valve transfer station at the corner of Hobson and Viaduct. It was emphasized that an attempt to completely remediate

this site, including the location of source contamination was premature. Prevention of further release to the Cooper River was agreed to be prudent.

Consensus test to add to list of Interim Measures - passed.

9.) SWMU 178 - Site of apparent transformer fire. The sampling results at this site indicate high levels of petroleum contamination. Paul Bergstrand asked if PCBs had been analyzed for and it was thought that PCBs had shown non detects however Tony volunteered to verify this. Consensus test to add to list of Interim Measures - passed.

Doyle mentioned that we should propose the actions at the Interim Measures to be complete as possible so that after performing some confirmatory sampling we may document that no further action is necessary. Other interim measures will be a "stop gap" measure only and will require corrective measures.

#### 1230 - Interim Measures Form

(Refer to the form provided prior to the conference call)

Brian asked if there were any questions regarding the Interim Measures Candidate Form that he had prepared. In particular, was there any input into the site priority. It was mentioned that there is the potential for reuse, human health or environmental priorities. With this short list of Interim Measures however priorities among various sites may not present a problem. It was decided to add this discussion to the May Project Team meeting agenda.

#### 1240 - DRMO/GRAM Survey Plan

Tony provided an update on the progress made on this action item. The work plan that currently exists is a survey plan only delineating the type of surveys, grid densities, and sampling requirements. No information is provided on disposal of radiological or hazardous waste. This will be provided in the work plan to be developed. RASO, which is the Radiological Affairs Support Office will coordinate with the DOD Executive Office which provides brokers for disposal. This disposal will be coordinated with the Department, Virgil Autry in particular, and through USEPA representatives. The work plan is intended to be prepared prior to June/July timeframe to support the survey activities.

The funding problem is in the process of being resolved. CMDR Ferron and Capt George from RASO agreed that the Detachment has the appropriate experience to develop the workplans and conduct the work. Therefore, a change to the funding document will be initiated in order to allow contracting the Detachment.

#### 1250 - RAB meeting discussion

Doyle mentioned that he had a telephone conversation with Mr. Lou Mintz after the meeting on April 9. Doyle asked Lou if he received his information from EPA, SCDHEC, the Navy or the contractor and Lou had said that he did not. Doyle felt like he had not breached the trust of the team. Tony also mentioned his conversation with Jim Moore subsequent to the April 9 meeting and said that Jim did not witness any conversations that Doyle may have had with any member of the RAB. Joe McCauley suggested that the team take a vote of confidence in Doyle as a team member based on the information that had been provided.

Consensus test passed.

## 1300 - Other business

Brian suggested that we review the IR sites for UST candidates.

Brian also suggested that we add a discussion on changing the Environmental Condition of Property map in the BCP in order to reflect the current status of the RFI. Daryle added that the Navy has to respond to a NAVFAC letter concerning updating these maps.

Doyle mentioned that the BCT seminar is in Charleston the Month of July and coincides with the RAB meeting dates. He suggested that we give thought to what will be presented during this meeting as there may be some special guests.

## 1307 - The meeting adjourned

## ACTION ITEM SUMMARY

Action	Responsibility	Due
1. Research the requirements for Solid Waste Permits	J.Tapia	4/22
2. Determine contents on Waste Oil Tank at AOC 609	K.Tunstall	4/22
3. Provide SCDHEC interpretation of Subtitle I and Subtitle C division of responsibilities	T.Hunt	4/26
4. Determine AOC 609 and AOC 626 tank status with Tim Metlen	P.Bergstrand	4/26
5. Proposed May Project Team meeting agenda	D.Backus	5/3

## MAY MEETING AGENDA ADDITIONS

1. Discussion on priority definition on Interim Measure form.
2. Discussion on transfer of IR sites to remediation under the UST program.
3. Discussion on updating the Environmental Condition of Property Map in the BCP.
4. July RAB presentation.

It was agreed that these agenda items would be validated, prioritized and clarified with any other agenda items prior to the meeting therefore no consensus vote was necessary.

# South Carolina Department of Health and Environmental Control

2600 Bull Street  
Columbia, S.C. 29201

Commissioner  
Michael D. Jarrett



Board  
Henry S. Jordan, M.D., Chairman  
John B. Pate, M.D., Vice-Chairman  
William E. Applegate, III, Secretary  
Tony Graham, Jr., M.D.  
John H. Burriss  
Richard E. Jabbour, D.D.S.  
Curie B. Spivey, Jr.

## MEMORANDUM

TO: Raymond Knox, Director  
Groundwater Protection Division

FROM: *William W. Culler*  
William W. Culler, P.E., Director  
Division of Facility Engineering  
Bureau of Solid and Hazardous Waste Management

DATE: August 7, 1989

On June 15, 1989 EPA Region IV officials reached an agreement regarding responsibilities for various circumstances involving underground storage tanks. I have attached that agreement.

This memorandum will document, as discussed between Jim Hess of your staff and Randy Thompson of my staff, our concurrence to follow the EPA Region IV agreement in determining the responsibilities of the Hazardous Waste Permitting Section and the Groundwater Protection Division for various underground storage tank scenarios.

WNC:GRT:jth

Enclosure

Post-It® Fax Note	7671	Date	4/22/96	# of pages	3
To	Tom Hunt	From	Joe Burrell		
Co./Dept.	South Oil	Co.	SC OH&C		
Phone #		Phone #	896-4024		
Fax #	820-5563	Fax #			

Region IV Position Paper  
Subtitle I and Subtitle C Requirements  
for Underground Storage Tanks

The purpose of this position paper is to clarify the responsibilities of the RCRA Branch and Ground-Water Protection Branch in Region IV for the RCRA Subtitle I underground storage tank (UST) program. There is a potential overlap of Subtitle I and Subtitle C requirements for USTs that contain regulated substances. To avoid this overlap, each program will have responsibility for the particular circumstances discussed below.

A. Facilities that have no RCRA permit and have no interim status under RCRA.

1. USTs which contain hazardous substances defined under Section 101(14) of CERCLA and are not defined as a hazardous waste or a mixture of hazardous wastes as defined in 40 CFR §261:

USTs containing hazardous substances which are regulated under Subtitle I will be subject to 40 CFR Part 280. Release of a hazardous substance(s) to the environment from USTs regulated under 40 CFR Part 280, will be regulated under the jurisdiction of Subtitle I (Ground-Water Protection Branch).

2. Petroleum substance UST:

USTs containing petroleum substances will be regulated under Subtitle I.

B. Facilities that have a RCRA permit or are operating under interim status.

1. USTs that contain hazardous wastes, solid waste or a mixture of hazardous wastes and another regulated substance:

If the UST contains material that is classified as a hazardous waste defined under Subtitle C, this UST will be excluded from all the requirements of Subtitle I and will be regulated under Subtitle C.

USTs containing solid waste (but not hazardous) as defined in 1004 of the RCRA statute are only regulated under Subtitle C authority if a release occurs that contains hazardous constituents. Corrective actions for releases of hazardous constituents from these USTs will be handled under 3004(u), 3008(h), or 3004(v) of RCRA.

- 2. Petroleum substance USTs: *Petroleum substances replaced w/ "regulated substances?"*

Petroleum USTs will be regulated under 40 CFR Part 280. Corrective actions for releases from petroleum USTs will be conducted under the direction of the Ground-Water Protection Branch.

- 3. Hazardous substance USTs:

USTs containing hazardous substances (not defined as a hazardous waste) subject to Subtitle I regulations will be regulated under Subtitle I until a release occurs. Corrective action for releases that are determined to be hazardous wastes or hazardous constituents at a RCRA permitted facility will be handled under Subtitle C (RCRA Branch). Any other releases of hazardous substances will be handled under Subtitle I (Ground-Water Protection Branch).

Petroleum and hazardous substance releases at a RCRA permitted facility:

Where there is a possibility of a mixed plume, the two Branches will coordinate with each other to determine whether Subtitle I or Subtitle C will have jurisdiction and which requirements will be followed.

If circumstances should arise that are not specifically addressed in this paper, the respective Branch Chiefs will meet to decide a course of action. This agreement can be amended in the future, if needed, with the concurrence of both Branches.

*James S. Kutzman*  
 \_\_\_\_\_  
 James S. Kutzman, Chief  
 Ground-Water Protection Branch

*James H. Scarbrough*  
 \_\_\_\_\_  
 James Scarbrough, Chief  
 RCRA Branch

6/15/89  
 Date

6/15/89  
 Date

# PT AGENDA

**NAVAL BASE CHARLESTON  
PROJECT TEAM MEETING  
AGENDA**

DATE: May 14 & 15, 1996

PLACE: Naval Base Charleston, Executive Conference Room, Bldg. NH-45

Tuesday, May 14, 1996			
Time	Subject	Presenter	Action
9:30 - 9:40 am	Introductions	D. Backus	Info Only
9:40 - 9:50 am	Review and Prioritize Agenda	D. Backus	Decision Req.
9:50 - 10:15 am	Review Status of April Action Items	Team	Info Only
10:15 - 10:45 am	Identify and Develop Outstanding Project List	T. Hunt	Info Only
10:45 - 11:00 am	Break		
11:00 - 11:30 am	Discuss Zone K analytical Requirements	T. Hunt	Decision Req.
11:30 - 12:00 pm	Results of April BCT Meeting	D. Fontenot	Info Only
12:00 - 1:00 pm	Lunch		
1:00 - 1:20 pm	Bioremediation Pilot Project (Bldg. 1601) Update	D. Fontenot	Info Only
1:20 - 1:40 pm	Discuss Moving Select RFI sites to the UST Program	Team	Decision Req.
1:40 - 1:50 pm	Break		
1:50 - 2:30 pm	Interim Measures - a) Prioritization b) Candidate sites c) Update Status	Team	Decision Req.
2:30 - 3:00 pm	Discuss RAB Meeting Presentations	Team	Info Only

**NAVAL BASE CHARLESTON  
PROJECT TEAM MEETING  
AGENDA**

DATE: May 14 & 15, 1996

PLACE: Naval Base Charleston, Executive Conference Room, Bldg. NH-45

Tuesday, May 14, 1996			
Time	Subject	Presenter	Action
10:00 - 10:10 am	Introductions	D. Backus	Info Only
10:10 - 10:20 am	Review and Prioritize Agenda	D. Backus	Decision Req'd.
10:20 - 10:45 am	Review Status of April Action Items	Team	Info Only
10:45 - 11:15 am	Identify and Develop Outstanding Project List	T. Hunt	Info Only
11:15 - 11:30 am	Break		
11:30 - 12:00 pm	Results of April BCT Meeting	D. Fontenot	Info Only
12:00 - 1:00 pm	Lunch		
1:00 - 1:20 pm	Bioremediation Pilot Project (Bldg. 1601) Update	D. Fontenot	Info Only
1:20 - 1:40 pm	Discuss Moving Select RFI sites to the UST Program	Team	Decision Req'd.
1:40 - 1:50 pm	Break		
1:50 - 2:30 pm	Interim Measures - a) Prioritization b) Candidate sites c) Update Status	Team	Decision Req'd.
2:30 - 3:00 pm	Discuss RAB Meeting Presentations	Team	Info Only

Wednesday, May 15, 1996			
Time	Subject	Presenter	Action
9:00 - 9:10 am	Review and Prioritize Remaining Agenda Items	D. Backus	Decision Req'd.
9:10 - 9:30 am	RAB Meeting Debrief (Observations, Action Items)	D. Backus	Info Only
9:30 - 9:45 am	Present and Discuss Bldg. 79 Investigation Results	D. Backus	Info Only
9:45 - 10:15 am	Discuss Improved Communication/Teleconferences	C. Lacey	Decision Req'd.
10:15 - 10:45 am	Environmental Workload Status/Prioritization	Team	Decision Req'd.
10:45 - 11:00 am	Break		
11:00 - 11:45 am	Finalize and Adopt Team Ground Rules	Team	Decision Req'd.
11:45 - 1:00 pm	Lunch		
1:00 - 1:30 pm	Discuss Environmental Condition of Property Map	D. Fontenot	Decision Req'd.
1:30 - 2:00 pm	Discuss Zone H Analytical Requirements	T. Hunt	Decision Req'd.
2:00 - 2:30 pm	Facilitator Comments/Critique	C. Lacey	Info Only

*STANDING AGENDA ITEM*

*MOVE TO TUES 6:00*

*2:00 - 2:15 P. BERGSTRAND WYATLE BENNETT*

# NAVAL BASE CHARLESTON

## PROJECT TEAM MEETING

### CONFERENCE CALL AGENDA

Date: 05/23/96  
Time: 10:00 am to 12:00 pm EDT  
Access No. 1-800-403-1038, access code 387776

Facilitator: Cecile Lacey  
Attendees: Project Team Members  
Tier 2 Link: Joe McCauley

Please read: Bioremediation Pilot Project Package  
May Project Team Meeting Minutes  
Latest Interim Measures Candidate Site Information  
Project Priority List

## AGENDA TOPICS

10:00 - 10:05	Role Call	T. Haverkost
10:05 - 10:20	Approve May Project Team Meeting Minutes ( <b>Decision</b> )	Team
10:20 - 10:40	Discuss Bioremediation Pilot Project ( <b>Decision</b> )	B. Dearhart
10:40 - 11:00	Interim Measures Candidate Sites ( <b>Decision</b> )	T. Hunt
11:00 - 11:20	Follow up Discussion - RFI sites to UST Program ( <b>Decision</b> )	P. Bergstrand
11:20 - 11:30	Project Priority List Discussion ( <b>Decision</b> )	T. Hunt
11:30 - 11:35	Report on Tim Mettlen's Availability to Team ( <b>Information</b> )	P. Bergstrand
✓ 11:35 - 11:40	Report on CSO Representative to Team ( <b>Information</b> ) <i>- BEAU CAMP - PERMIT RELATED ISSUES</i>	D. Fontenot
11:40 - 11:45	Set Date for Zone E 60% Progress Meeting ( <b>Decision</b> )	T. Haverkost
11:45 - 12:00	Wrap up and Adjourn	C. Lacey

Conference Call Chair - Todd Haverkost  
Conference Call Minutes - Paul Bergstrand

**PT MINUTES**

# E-MAIL/FAX COVER SHEET

## Charleston Naval Shipyard Team, Environmental (one each)

**From:** Paul M. Bergstrand                      SCDHEC  
 Phone: 803-896-4016  
 FAX : 803-896-4002  
 E-mail: "bergstpm@columb34.dhec.state.sc.us"

**To:**

Dave Backus	E/A&H	901-383-1743
Doyle Brittain	EPA	404-347-1735
Bobby Dearheart	DET	803-743-9413
Daryle Fontenot	S Div	
Pat Franklin	S Div	803-820-5563
Todd Haverkost	E/A&H	803-856-0107
Tony Hunt	S Div	
Cecile Lacey	Galileo	603-883-2330
Gabriel Magwood	S Div	
Joe McCauley	S Div	
Tim Mettlen	SCDHEC	E-Mail
Hayes Patterson	S Div	
Christine Sanford-Coker	SCDHEC	E-Mail
Brian Stockmaster	S Div	E-Mail
Johnny Tapia	SCDHEC	E-Mail
Paul Tomiczek	Bechtel	615-220-2748
Kevin Tunstall	DET	

**Date:** 20 May 1996

**Re:** Draft Team minutes, action items, parking lot items and next agenda

Total number of pages including the cover sheet:

I've done my best although I probably have ● my spin on the issues. Even though I will run spell check there will be spelling problems. Please let me know what needs to be improved.

Brian, would you please distribute the draft minutes at South Div? Bobby, would you please distribute the draft minutes at the Detachment?

The Geo-Cleanse presentation will be Thursday after 10:30 and should last about an hour. We meet @ 1051 Shine Ave. on the base. Call Dick Souza @ 803-238-6080 for directions.

- 1) The action item summary was reviewed. There was some discussion about the Chicora Tank Farm and the CAMP.
- 2) The outstanding Project List was presented by Tony Hunt. The question for the Team was on the FORMAT and CONTENT of the Project List. Some of the Comments and suggestions were made to include Bechtel, add a RAD Category, modify the UST category, add a miscellaneous category. In general the response was to keep and expand upon the format. A small Team was suggested to develop a draft form but the Team decided not necessary.
- 3) The environmental workload/priority ranking was discussed by Tony Hunt. Some of the following workload points were made:
  - A) There is a perception within DoD and Nav that there is no progress at CNS.
  - B) Data analysis, interpretation and reporting is/has been a major hurdle. There should be better progress once the form becomes understood.
  - C) Mapping some sketchy environmental results is very difficult.
  - D) The Team has been learning on the Zone H Report.

The following priority ranking points (reasons) were made:

- \*) Better Tracking.
- \*) Promote Progress.
- \*) Work Together (on high priority plans, reports, etc.)
- \*) Resolve conflicting time demands.
- \*) Complete design ready for action. (Team agrees to work scope.)
- \*) Reduce stress.
- \*) Project resource needs. Use resources more efficiently.
- \*) Prevent schedule change.
- \*) Handle emergencies (better and as a team).
- \*) Avoid Political heat (by addressing problems as a team).

(From my notes I am adding:

- A) The Team should recognize the main categories of work, workplans, reports and FOSLs.

B) The Team should keep a General Priority Ranking, keeping it as adjustable as needed. Could we generally state that FOSLs > Workplans > Reports?

C) The question was asked, do we need a priority ranking system?

TEAM CONSENSUS: The Team needs a priority system.

TEAM ACTION: The Team will work on this the next meeting.

#### LUNCH

4) The Bioremediation Pilot Project Report was presented by Gabriel Magwood. It was announced that startup of the project did not require a permit since the petroleum contaminated soils would not be leaving the site (CNS). Accepting non-hazardous soils from the IR program was discussed. It was clearly stated that only petroleum contaminated soils associated with the SC UST program could be accepted in the pilot project. The concerns resulting in excluding IR program soils is that the soils are managed by a different Bureau and could be contaminated with a wide variety of non-petroleum materials. It was stated that the facility has the ability to segregate soils. The building is currently being prepared by having lead based paint removed. The pilot project has three treatment variables: a)no tilling b)tilling c)tilling with a bio-enhancement. Doyle Brittain requested a brief paper describing the projects logic, parameters, end point, and goals. Bobby Dearheart will provide the paper and the topic will be discussed in the 28 May teleconference.

5) The Moving RFI UST sites to the State UST Program was discussed by Tony Hunt. The issue is centered around removing investigations of UST's from the RCRA RFA which considers the USTs as SWMUS to the State UST program. Another central question is how does the RFI USTs interact/interface with the State UST program? The EPA Region IV position paper on USTs must also be included in the discussion. Several petroleum contaminated sites which are candidates for transfer were presented. Please see the handout for specific details. It was also suggested that petroleum contaminated sites which are not associated with UST be eligible for transfer to the State UST program. This topic will be discussed in the 28 May teleconference.

6) The Interim Measures at eleven sites was presented by Bobby Dearheart. I didn't get a

CORRECTIVE ACTION  
PROGRAM

✓ good record of the discussion. The Team will decide something about interim measures during the 28 May 1996 teleconference.

- 7) RAB meeting presentations were discussed. Wayne Cotton reviewed items about the Chicora Tank Farm. Interim Measure items were presented by Brian Stockmaster. Groundwater Modeling was presented by Tony Hunt. RFI workplans and reports were discussed by the Team.
- 8) The meeting adjourned until the RAB meeting at the Dorchester Public Library. Team members are to be available for discussion with RAB members and the general public from 5:30 to 6:30 pm. Please see the RAB agenda and minutes for additional detail.
- 9) The Team resumed the meeting and revisited the remaining agenda items.
- 10) Parking Lot and Team Issues were discussed.
  - a) Just who should be voting Team members?
  - b) How does the Team get the right people to meeting? Do those people have the ability to vote on issues?
  - c) Teams originally started with the IR program (not BRAC). Must the team strictly adhere to the BRAC definition of a Team?
  - D) Other parties such as the caretakers office, permitting offices have the ability to become "show stoppers" with or without consensus.

TEAM CONSENSUS: Other parties, such as Gabriel Magwood, Tim Mettlen, Archie Browder etc., should be considered resources and must be invited as need arises.

TEAM ACTION: Review and revise Team consensus statement.

TEAM CONSENSUS: The BTC is not a full voting Team member.

TEAM CONSENSUS: The Caretakers office may have a representative.

- 11) Building 79 Investigation Results were presented by Todd Haverkost. A report of findings was presented to the Team. Please see handout for details. Discussion ensued regarding the next phase of the investigation.

TEAM CONSENSUS: EnSafe will collect four additional samples within the eastern section of the interior of Building 79 at location drawn on the map. Ten or more soil borings will be collected outside of Building 79. EnSafe will report findings at the next

DAVE BACKUS

Team meeting. All samples will be analyzed for Mercury only.

- 12) The Team learned about different behaviors from our Facilitator Cecil Lacey. The video was considered good (\*\*\*) but some liked the book better.

#### LUNCH

- 13) The April BCT meeting minutes were presented by Daryle Fontenot. See the BCT minutes for details.
- 14) The Reuse of the Warehouses 64, 66, & 67 was presented by Daryle Fontenot. In order for the property to be reused by the interested party, site preparation, including soil excavation inside the warehouses must begin within 60 days. Some excavations may be up to 120 inches deep. The Team discussed the site which is in the Zone C report. Other discussion topics involved contamination and levels of contamination, the potential to excavate contamination from the former burning waste site, the value of test borings and samples, the disposal of excavated soils and water (from dewatering the excavations), the proposed site plans, worker environmental safety, liability and future land use, who would pay for environmental assessment and proper soil and water disposal. The Team decided site development could occur under the following conditions.
- A) The plans and specifications of the pits was submitted to South Div for review.
  - B) The developer was responsible for characterization and disposal of soils and water.
  - C) The final remedial action has not been decided upon and may impact the facility.
- 15) The Progress and Streamlining lessons learned at Building 505 on the Myrtle Beach Air Force Base were presented by Paul Bergstrand. See the handout for details. A presentation of the Geo-Cleanse system will be made at the next MBAFB BCT meeting. The CNS Team was invited to attend the presentation.
- 16) The Results from mapping data at SWMU 19<sup>17</sup> was presented by Todd Haverkost. The data is from the Submarine Warfare School contamination. The difficulty of presenting discontinuous data points in light of the background contamination was discussed. Todd H. and Tony H. will try to refine the maps.
- 17) The review of Team partnering and interaction was presented by Cecil Lacey. Some suggestions included:

**Using meeting time more efficiently.**

**Scheduling difficult decisions early in the day.**

**Develop better tracking techniques (for meeting topics and discussion).**

**Topic presenter should stand to face the Team.**

- 18) The Team adjourned the meeting at 4:20. Kevin Tunstall, Bobby Dearheart, Johnny Tapia and Paul Bergstrand drove to view the interim measures at the Coal Staging area.**

**ACTION ITEMS**

- A) Tony Hunt by 17 May; Will research requirements on a Chicora Tank Farm Closure plan and will submit to Harold Seabrook (SCDHEC).
- B) Team Members by 21 May; Will review Tony's Project form and will submit comments and additions with the intent of submitting/presenting the form to the RAB.
- ✓ C) Paul Bergstrand by 28 May; Will speak with Tim Mettlen regarding transferring USTs in the RFI program and petroleum contaminated sites not associated with USTs into the State UST program.
- ✓ D) Bobby Dearheart by 20 May; Will provide the paper on the Bioremediation Pilot Project and the topic will be discussed in the 28 May teleconference.
- ✓ E) Paul Bergstrand by 28 May; Will talk with Tim Mettlen about moving petroleum contaminated sites into the SC UST program for action.
- ✓ F) Bobby Dearheart; Will provide the team members by Fax interim measures sheets for discussion during the 28 May 1996 teleconference.
- ✓ G) Paul Bergstrand by 28 May; will talk with Tim Mettlen about attending CNS Team meetings when UST issues are being discussed.
- ✓ H) Tony Hunt or Daryle Fontenot by 28 May; Will speak with Cdr. Darby for the name of the caretakers Team representative.
- I) Tony Hunt by 22 May; Will provide the Zone K info package to the Team.
- J) Daryle Fontenot will review the Zone C FOSL for any restrictions on property re-use and development.
- K) Team Members by 11 June; Will review Team ground rules for a vote.

**NEXT AGENDA (Parking Lot)****Teleconference****Date 28 May 1996****Time: 10:00 am until 12:00**

- \*) Bioremediation at Building 1601. Bobby Dearheart.**
- \*) Follow-up; Moving petroleum contaminated RFI sites into the SC UST program. Paul Bergstrand.**
- \*) Follow-up; Sites for Interim Measures. Bobby Dearheart.**
- \*) Follow-up; Tim Mettlen ability to attend CNS Team meetings.**
- \*)**

**Next Team Meeting****Date: 11 & 12 June 1996****Start time 8:00 am, Lunch 12:00 to 1:00 pm, two 15 minute breaks.****Location: Charleston, site Unknown****Subjects**

- \*) Meet and Greet; Check in.**
- \*) Review Agenda, add/modify items as needed.**
- \*) Environmental Condition Property Map.**
- \*) Discuss Zone H RFI Report and comments.**
- \*) 1997 Budget Information.**
- \*) Work load and Priority Ranking (Matrix)**
- \*) Applicability of groundwater<sup>MODEL</sup> results.**
- \*) Tony Hunt. Follow-up; Who is Cdr Darby's representative for Caretaker?**
- \*) <sup>DAVE BACKUS</sup> ~~Todd Haverkost.~~ Follow-up; Building 79 investigation report.**
- \*) Voting; Team ground rules. Agenda building.**
- \*) Review of RAB agenda. Preview presentations, critique.**
- \*) Review of RAB meeting. Follow-up on action items, critique.**

**cns-maa.605 (Minutes-Action Items-Agenda)**

BASE REALIGNMENT AND CLOSURE CLEANUP TEAM  
MINUTES OF MAY 7, 1996 MEETING

On May 7, 1996, the Base Realignment and Closure (BRAC) Cleanup Team (BCT) met at the South Carolina Department of Health and Environmental Control (SCDHEC) District Office in Aiken, South Carolina. Ann Ragan, Daryle Fontenot, and Doyle Brittain attended. A copy of the agenda is attached. The meeting started at 12:00 Noon and ended at 5:45 PM.

MEETING OVERVIEW

1. THE BCT DISCUSSED the agenda, and added a couple of last minute items.

THE BCT AGREED on the agenda.

2. THE BCT DISCUSSED the taking of minutes.

THE BCT AGREED that Doyle Brittain would take the minutes.

BCT ROLES AND RESPONSIBILITIES

1. THE BCT DISCUSSED the concept of the role of the BCT with respect to the Project Team (PT) and Partnering. It became apparent that there is confusion over the role of the BCT.

THE BCT AGREED that the confusion started about the time that a number of things happened, including a turnover of personnel in the State and Navy, the Finding Of Suitability to Lease (FOSL) workload began, and formal Partnering began.

2. THE BCT DISCUSSED the PT rule regarding getting permission before allowing visitors to attend the PT meetings.

THE BCT AGREED that we need to clarify this rule at the May 14-15, 1996, PT meeting.

3. THE BCT DISCUSSED the property reuse status report which is generated by the Naval Base Charleston Caretaker's Office.

THE BCT AGREED that the BCT needs to receive a copy of this report at least monthly. Daryle Fontenot agreed to followup on this.

4. THE BCT REVIEWED AND DISCUSSED sections from the *BRAC Cleanup Plan (BCP) Guidebook*, Fall 1993. Specifically:

- a. Section 2, BRAC Cleanup Team/Project Team, Pages 2-1 - 2-6.
- b. Appendix B, Subject: Fast Track Cleanup at Closing Installations

- c. Appendix B, DoD Guidance on Establishing Base Realignment and Closure Cleanup Teams
- d. Appendix B, DoD Guidance on Improving Public Involvement in Environmental Cleanup at Closing Bases

Copies are attached.

THE BCT AGREED that the BCT roles and responsibilities are "big picture" and policy items, and that the BCT is the point of contact for communicating cleanup information, such as with the Restoration Advisory Board, as stated in the above DoD Guidance.

THE BCT AGREED that the following question needs to be answered: "Is there a conflict between the DoD Guidance and Partnering?"

THE BCT AGREED that there are parts of the DoD Guidance which we are not currently following. Specifically:

- a. DoD Guidance says that the Base Transition Coordinator (BTC) should be a member of the PT. At Naval Base Charleston, he is not. Should the BTC be made a member of the PT?
- b. DoD Guidance recognizes that the PT is made up of a host of people who work in all environmental media and support roles. It says that few PT team meetings require participation by all members. At Naval Base Charleston, we need to define who is on the PT and who needs to be at which meetings.
- c. DoD Guidance says that the BRAC Environmental Coordinator (BEC) leads the PT meetings. At Naval Base Charleston, we are rotating this responsibility. Should the BEC lead the PT meetings?
- d. DoD Guidance says that the BEC will propose and negotiate changes needed in Federal Facility Agreements, Interagency Agreements, or similar agreements, orders and decrees to expedite cleanup. This is not currently happening at Naval Base Charleston.
- e. DoD Guidance says that "Issues affecting the execution of environmental cleanup programs should be resolved at the BCT level." There are significant instances where this has not happened. How can we prevent this from happening in the future?

- f. DoD Guidance says that "The RAB will work in partnership with the BCT on stakeholder issues and related matters. Through the RAB, stakeholders may review progress and participate in the decision making process --- Information on cleanup activities such as draft and final technical documents, proposed and final plans, status reports, etc, will be provided to the RAB and made available to the public in a timely manner. Public comments will be actively solicited and considered before documents are finalized." This is not happening at Naval Base Charleston. We are not providing draft documents or predecision documents to the RAB and soliciting their input. How do we resolve this?

#### UXO

THE BCT DISCUSSED the Unexploded Ordnance (UXO) issues at Naval Base Charleston with emphasis on what constitutes a "due diligence" search.

- \* THE BCT AGREED to delay making a decision on what constitutes a due diligence search until we hear a presentation from SCDHEC at the May 14-15, 1996, PT meeting.

PRESENTATION DID NOTHING TO DEFINE THE LIMITS OF A DUE DILIGENT SEARCH.

#### ENVIRONMENTAL CONDITION OF PROPERTY

THE BCT DISCUSSED the reclassification of property based on the results from the Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Reports which have been generated. The proposal discussed was that since the RFI Reports give more and better information than was available when the property was originally classified, this more current information should be used to reclassify the property, recognizing that the RFI Reports are draft so the reclassification of property would be draft. Once the RFI Reports are finalized, the reclassification of property could be correspondingly finalized.

THE BCT AGREED to think about this and to discuss it further at the May 14-15, PT meeting.

#### FY-97 BUDGET FOR NB CHARLESTON

THE BCT DISCUSSED the FY-97 Naval Base Charleston budget. It currently looks like we will receive \$18.2 million.

This was for information only. No BCT decision was needed.

FOR ALL PROGRAMS ?

PROJECT WORKLOAD

THE BCT DISCUSSED the project workload, with particular emphasis on expediting the SCDHEC and EPA review of documents. The question was asked as to what could be done to speed up this process. SCDHEC AND EPA identified two items which would do the most to expedite the SCDHEC and EPA review of documents. Specifically:

- a. Improve the quality of the documents submitted for review.
- b. Stay focused, e.g., the FOSL workload took a lot of time that could have been spent reviewing other documents. It's an either/or situation; everything can not be top priority.

These items were discussed.

RDA PROJECT

THE BCT DISCUSSED a high priority project of the Charleston Naval Complex Redevelopment Authority.

THE BCT AGREED that we did not have all of the information that we needed to make a decision. The names and locations of hazardous waste sites in the area and data generated in the area during the RFI are needed before a decision can be made regarding a FOSL and environmental permitting issues. Daryle Fontenot agreed to obtain this information and make it available to the BCT during the week of May 13, 1996.

PERMITTING OF LESSEES

THE BCT DISCUSSED new industry moving to Naval Base Charleston with an apparent perception that Naval Base Charleston permits could be transferred directly to them or that they could share Naval Base Charleston's environmental permits.

THE BCT AGREED that SCDHEC needs to have a "New Industry" meeting with these new industries and explain the environmental permitting requirements. SCDHEC is in the process of scheduling these meetings now.

NEXT BCT MEETING

THE BCT DISCUSSED the time and place of the next BCT meeting.

THE BCT AGREED that the next BCT meeting would be held at 10:00 A.M., May 30, 1996, at the SCDHEC District Office in Aiken, South Carolina.

# Agenda

# NAVAL BASE CHARLESTON BRAC CLEANUP TEAM MEETING

05/07/96

12:00 PM

SC DHEC DISTRICT OFFICE  
AIKEN, SC

**Attendees:**

ANN RAGAN, DOYLE BRITTAIN, DARYLE FONTENOT

## Agenda topics

MEETING OVERVIEW Daryle Fontenot

BCT ROLES AND RESPONSIBILITIES BCT

UXO BCT

ENVIRONMENTAL CONDITION OF PROPERTY Daryle Fontenot

FY97 BUDGET FOR NB CHARLESTON Daryle Fontenot

OTHER TOPICS PROJECT WORKLOAD

OTHER TOPICS RDA Project

*Permitting of Lessees*

Post-It™ brand fax transmittal memo 7671		# of pages ▶	1
To	Doyle Brittain	From	DL Fontenot
Co.	EPA	Co.	SOUTH DIV
Dept.		Phone #	
Fax #	404 347-8935	Fax #	803 820-5563

**Department of  
Defense**

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# **BRAC Cleanup Plan (BCP) Guidebook**

*Implementing President Clinton's  
Decision to Promote  
Early Reuse of Closing Bases  
by Expediting Environmental Cleanup*

**Fall 1993**

## Section 2

### BRAC Cleanup Team/Project Team (Step 1)

Section 1 of this Guidebook provides an introduction, an overview of the BCP concept, and an overview of the Five-Step BCP process.

This section describes the BRAC Cleanup Team, and recommends participants for the Project Team who can assist the BRAC Cleanup Team during the Five-Step BCP process.

#### BRAC Cleanup Team

Your BRAC Environmental Coordinator should contact the EPA and State environmental regulatory agency representatives to form your BRAC Cleanup Team. Once formed, your BRAC Cleanup Team will oversee the execution of its responsibilities as set forth in the DoD policy included in appendix B of this Guidebook.

Your BRAC Cleanup Team's responsibilities include the management of the Five-Step BCP process and the preparation of your installation's BCP. Additionally, your BRAC Cleanup Team should identify the resources it needs to facilitate your effort. Your BRAC Cleanup Team, combined with the individuals they designate, becomes the BCP Project Team.

#### Program Review Items 1, 2, and 19

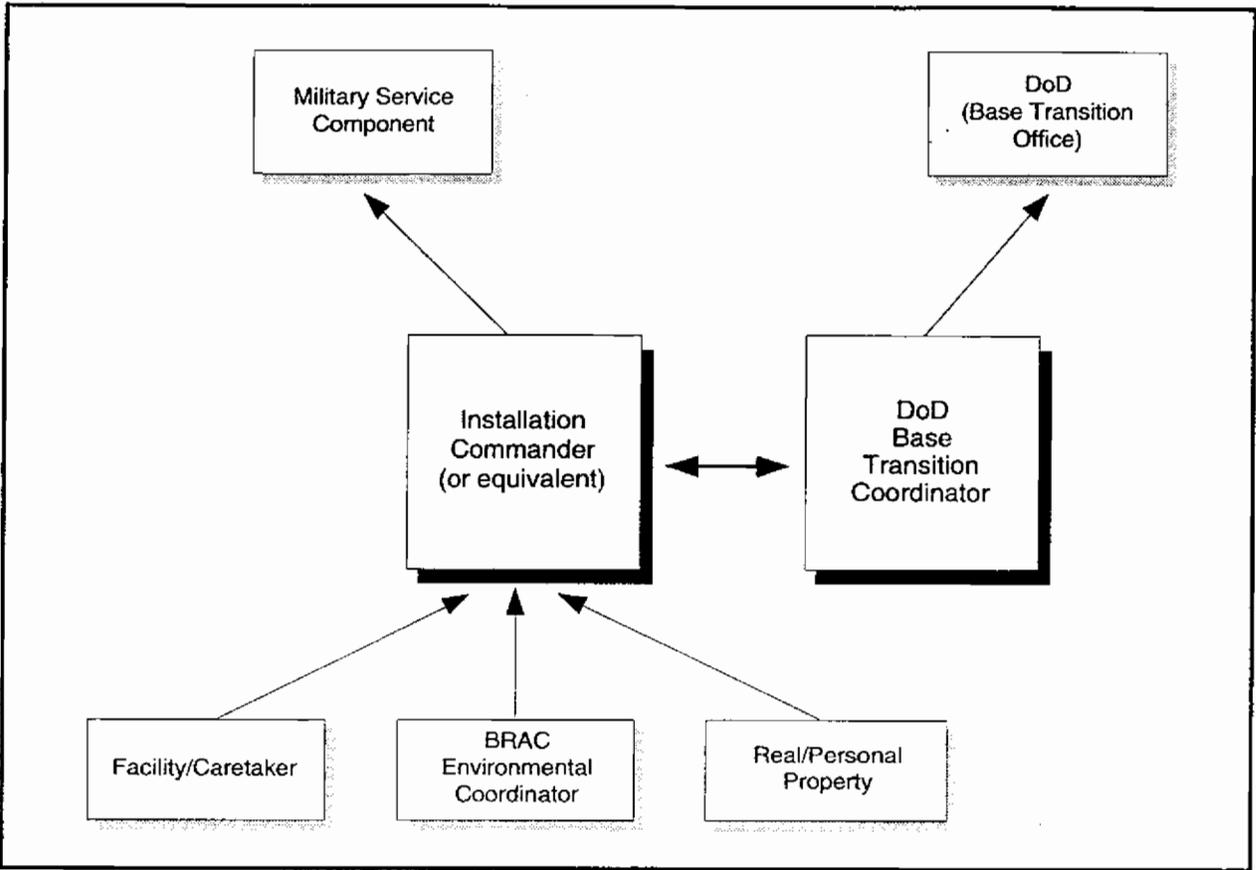
Program Review Items 1, 2, and 19 (found in their entirety in section 3) solicit information on the Project Team and Project Team meetings. In summary, these Program Review Items require:

- Identification of BRAC Cleanup Team and assisting Project Team members in Chapter 1.3 of your BCP and the creation of a table listing the name, title, phone number, and role/responsibility of each member
- Identification, if applicable, of any critical deficiencies in the composition of your installation's Project Team (e.g., lack of regulatory, community, technical, or administrative support personnel) and the formulation of a strategy to resolve these deficiencies (This strategy can include recommendations or requests for additional support. If necessary, include a discussion of this issue in Chapter 6 of your BCP.)

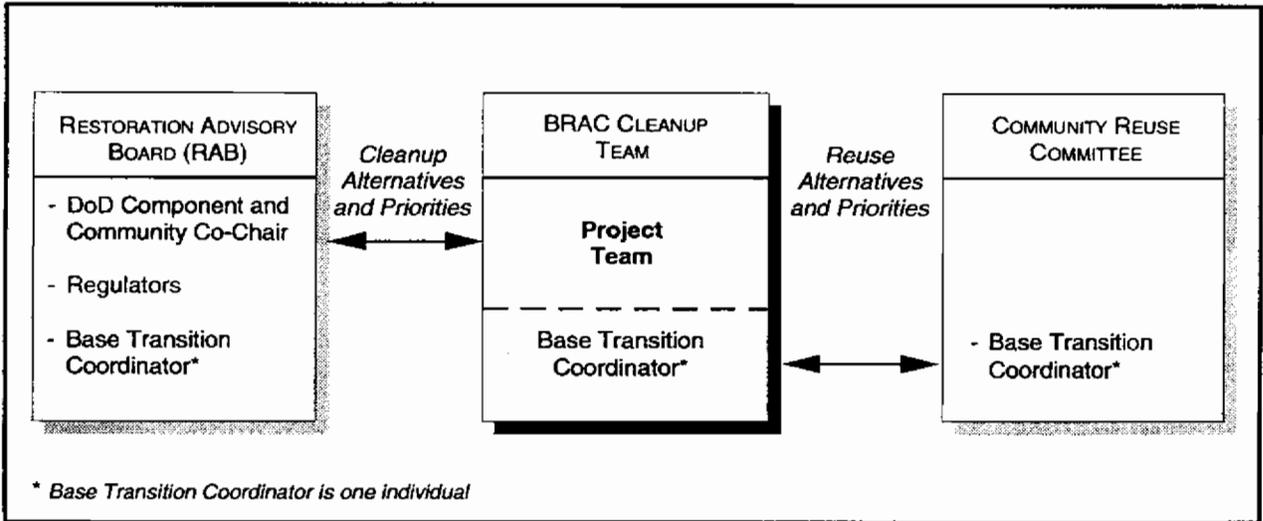
#### Rationale

The successful preparation of your BCP, as well as the successful execution of cleanup efforts at your installation, is intrinsically dependent on the full participation of your BRAC Cleanup Team. It is paramount that your BRAC Cleanup Team achieve consensus on efforts to arrive at accelerated cleanup and transfer efforts at your installation. The development of your BCP will also require input from all environmental restoration and compliance program decision makers, as well as technical, operational, reuse, and administrative specialists.

Figures 2-1 and 2-2, illustrate the relationships among various entities impacting environmental activities at your installation. Figure 2-1 shows the relationship between your Installation Commander (or equivalent) and your DoD Base Transition Coordinator. Note that your BRAC Environmental Coordinator reports to your Installation Commander (or equivalent). Figure 2-2 depicts the relationships between your BRAC Cleanup Team (and assisting Project Team), your Restoration Advisory Board (RAB) and your Community Reuse Committee. Your DoD Base Transition Coordinator should serve as the primary interface between your Project Team and your Community Reuse Committee. Once formed, your Community Reuse Committee should actively develop reuse alternatives.



*Figure 2-1  
BRAC Installation Functional Relationships*



*Figure 2-2  
BRAC Cleanup Team Relationships to Other Disposal and Reuse Entities*

Your Base Transition Coordinator should, as early as possible, provide any Community Reuse Committee-developed reuse alternatives to your BRAC Cleanup Team/Project Team, who should use these alternatives to determine future land use categories. These future land use categories will become a critical consideration as your BRAC Cleanup Team develops proposed and final cleanup levels. At appropriate points in the process, your BRAC Cleanup Team should work with your Base Transition Coordinator to reconcile potential differences between proposed future land uses and proposed cleanup levels. Your RAB, through its DoD Component representative, will provide cleanup alternatives (as viewed by the Community) for consideration by your BRAC Cleanup Team/Project Team. When appropriate, your BRAC Cleanup Team/Project Team should work with your DoD Component representative to the RAB to reconcile potential differences between RAB-proposed cleanup levels and other cleanup levels being considered by your BRAC Cleanup Team.

Your Project Team should consist of these individuals and should hold regular meetings at convenient times. Project Team meetings can serve many purposes, from working meetings of Service personnel and support contractors during elements of the Program Review, to expanded meetings of the BRAC Cleanup Team to identify and resolve technical, operational, or administrative issues that are impeding environmental restoration progress and may affect community redevelopment efforts at your installation.

## Guidance

Form the BRAC Cleanup Team. The BRAC Environmental Coordinator is responsible for contacting the EPA and appropriate State environmental regulatory agency to initiate team formation. **The BRAC Cleanup Team will serve as the decision makers for the efforts of the Project Team, especially during the execution of the Program Review.**

### BRAC Cleanup Team

- BRAC Environmental Coordinator
- State BRAC Cleanup Team Representative
- EPA BRAC Cleanup Team Representative

Your BRAC Cleanup Team should then consider the following individuals for inclusion on the Project Team:

- Installation RPM (if different from designated BRAC Cleanup Team Representative)
- EPA and State Remedial Project Managers (if applicable, and different from designated BRAC Cleanup Team Representatives)
- Other Service Representative(s), including Major Command, Fleet and Engineering Field Division, or Component BRAC organization representative(s)
- DoD Base Transition Coordinator (who will act as liaison between the Community Reuse Organization and the BRAC Cleanup Team as reuse scenarios are developed, so that cleanup issues related to reuse can be addressed)
- Service Center/Service Agent Representative(s)/Contracting Representative (typically restoration program and compliance program project managers or equivalents)
- Prime contractor(s) project manager(s)

- EBS contractor project manager
- EIS contractor project manager
- Additional EPA and State regulators who oversee restoration, compliance, natural/cultural resources, and reuse activities at your installation

In addition to the BRAC Cleanup Team and the additional Project Team members listed above, other resources may be necessary to conduct the Program Review.

A recommended approach is to identify the technical, operational, reuse, and administrative specialists who should be consulted with respect to one or more Program Review Items that require their individual expertise. The following list, while not exhaustive, is included to provide your BRAC Cleanup Team with ideas for additional Project Team participants. Such individuals who should be considered include the following:

- Installation Environmental Staff
- Installation Civil Engineer or Staff/Public Works Officer/Directorate of Engineering and Housing Representative
- Installation Health and Safety Program Managers, Industrial Hygienist, or equivalent
- Installation Compliance Program Manager(s)
- Installation Public Affairs Officer or Staff
- Installation Commander/Commanding Officer, or designate
- Component Command Representative
- Component technical support specialists
- Community relations specialist(s), if different from Public Affairs Officer or Staff
- EPA and State oversight contractor(s) point(s) of contact
- Human health and ecological risk assessor(s)
- Analytical chemist(s)
- Laboratory or contractor quality assurance/quality control (QA/QC) specialist(s)
- Hydrogeologist(s)
- Geologist(s)
- Environmental engineer(s)
- Site remediation specialist(s)
- Regulatory specialist(s)
- Information management specialist(s)

- Real property specialist(s)
- Installation land-use planner(s)
- Contracting officer(s)
- Legal counsel

***Few Project Team meetings require participation by all members.*** Rather, the BRAC Cleanup Team should identify the appropriate participants needed to make decisions on specific meeting issues. Project Team meeting goals and suggested procedures are shown in table 2-1. BRAC Cleanup Team/Project Team meetings should serve as the forum for assessing progress, obtaining consensus on problem issues, and eliminating confusion regarding your installation's environmental activities, especially those programs that have an impact on timely and beneficial redevelopment. Proper exchange at BRAC Cleanup Team/Project Team meetings should greatly reduce document review periods once the BCP draft has been completed. Better communication among all parties will help eliminate duplication of effort and lead to decisions concerning how best to use limited resources.

### ***Project Team Concept***

- Project Team is designated by BRAC Cleanup Team (which is the decision-making nucleus of the Project Team) and led by the BRAC Environmental Coordinator
- Participation is need-driven
- Party with an issue is responsible for issue presentation
- Initial Project Team goal is to complete Steps 2-4 of Five-Step BCP process
- Future function of Project Team is to assist the BRAC Cleanup Team to maintain program integrity, update BCP, and continue issue resolution on an "as needed" basis

### ***Project Team Meetings should be used to do the following:***

- Conduct elements of the Step 2 Program Review
- Resolve "global" technical, operational, and administrative issues
- Discuss modifications to agreements based on strategies that are developed
- Resolve technical issues identified during BCP development for:
  - Specific sites or OUs
  - Methodologies and technologies
  - Proposed cleanup plans and schedules
- Reach consensus on procedural, organizational, and operational issues:
  - Data QA/QC analyses
  - Data validation, data quality assessment, and data management
  - Development of conceptual site or zone models and model summaries
  - Background contaminant concentration determination
  - Risk assessment protocols
  - Data gaps and information gaps
  - Recommended No Further Response Action Planned (NFRAP) sites
  - Improved contracting approaches
  - Environmental activities that may impact reuse
  - Schedule modification

### ***Recommended Project Team meeting procedures during BCP execution include the following:***

- Written issue for discussion or proposal, submitted seven days prior to Project Team meeting for review by participants, if possible
- Oral presentation of issue(s) at meeting by party raising issue(s)
- Discussion and resolution of issue(s)
- Documentation of any resolved issue(s) in meeting summary report
- Program modifications, where appropriate

*Table 2-1*

*Project Team Concept, Meeting Goals, and Recommended Procedures*

MEMORANDUM FOR SECRETARIES OF THE MILITARY DEPARTMENTS  
CHAIRMAN OF THE JOINT CHIEFS OF STAFF  
UNDER SECRETARIES OF DEFENSE  
DIRECTOR, DEFENSE RESEARCH AND ENGINEERING  
ASSISTANT SECRETARIES OF DEFENSE  
COMPTROLLER  
GENERAL COUNSEL  
INSPECTOR GENERAL  
ASSISTANTS TO THE SECRETARY OF DEFENSE  
DIRECTOR, ADMINISTRATION AND MANAGEMENT  
DIRECTORS OF THE DEFENSE AGENCIES

SUBJECT: Fast Track Cleanup at Closing Installations

The President announced on July 2, 1993, a five-part program to speed economic recovery at communities where military bases are slated to close. The Under Secretary of Defense for Acquisition (USD(A)) has begun implementation of the five-part program with a strategy paper promulgated on July 15, 1993. This policy memorandum is one in a series that will be issued to further implement the President's program and the USD(A) strategy. In particular, it provides Department of Defense (DoD) guidance on implementing "Fast Track" cleanup initiatives.

The attached guidance includes procedures for establishing cleanup teams at closing bases, conducting comprehensive "bottom up" reviews of cleanup plans and schedules, accelerating the National Environmental Policy Act process, involving the public, and preparing Suitability to Lease documentation. Also attached is updated guidance on implementing the Community Environmental Response Facilitation Act for identification of uncontaminated properties.

The USD(A) will provide Components with a protocol and format for conducting the bottom up reviews at each closing installation by September 15, 1993. The results of the reviews and your revised cleanup plans must be submitted to him no later than April 29, 1994.

I want to emphasize that this initiative calls for a sharp departure from "business as usual". As such, the DoD Components should use the attached policy for implementation without further issuance of Component-specific policy, unless absolutely necessary. Any necessary Component-specific implementing directives should be issued by September 30, 1993.

*Environmental Security -- Defending Our Future*

The Department's best efforts are critical to communities successfully transitioning from base closure to economic recovery through economic redevelopment. I ask for your personal support and urge you to give this initiative continual, high level management attention and to allocate the resources necessary to help ensure success.

Attachments

DOD GUIDANCE ON ESTABLISHING  
BASE REALIGNMENT AND  
CLOSURE CLEANUP TEAMS

I. PURPOSE

This guidance implements the President's plan to expedite the disposal and reuse of closing military bases by creating partnerships and accelerating environmental cleanup activities. It establishes a Base Realignment and Closure (BRAC) Cleanup Team (BCT) for each Department of Defense (DoD) closing or realigning base where property is available for transfer to the community and empowers the team with the authority, responsibility, and accountability for environmental cleanup programs at these installations, emphasizing those actions which are necessary to facilitate reuse and redevelopment.

II. APPLICABILITY AND SCOPE

This policy applies to all DoD installations slated for closure or realignment where property is available for transfer to the community pursuant to the Base Closure and Realignment Act of 1988 (P.L. 100-526) (BRAC 88) or the Defense Base Closure and Realignment Act of 1990 (P.L. 101-510) (BRAC 91, 93, and 95). The policy's scope includes environmental cleanup programs and activities that support the lease or transfer of real property at affected installations under applicable statutes, regulations, and authorities, including but not limited to the following:

- Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)
- Resource Conservation and Recovery Act (RCRA)
- National Environmental Policy Act (NEPA)
- Executive Order 12580, Superfund Implementation
- Community Environmental Response Facilitation Act (CERFA)
- National Contingency Plan (NCP)
- Defense Environmental Restoration Program (DERP)

The requirements of this policy shall in no way impede, or otherwise affect the continuing responsibility to achieve and maintain environmental compliance in the ongoing operation of installation facilities.

III. POLICY

Department of Defense policy is to conduct environmental cleanup actions and programs to protect human health and the environment and to facilitate the reuse and redevelopment of

closure bases as expeditiously as possible. This policy will be carried out to promote economic reuse of affected installations in support of their surrounding communities, while satisfying applicable environmental protection laws and regulations.

#### IV. PROCEDURES AND RESPONSIBILITIES

##### A. PROCEDURES

1. In conjunction with the appropriate Environmental Protection Agency (EPA) Regional Office and state environmental regulatory entity, every DoD installation slated for closure or realignment at which property will be available for transfer to the community shall form a BCT comprised of one representative from DoD, one representative from the state and, where appropriate, one representative from the U.S. EPA. The BCT will act as the primary forum in which issues affecting the execution of cleanup to facilitate reuse will be addressed.
2. The DoD representative on the BCT (to be known as the BRAC Environmental Coordinator (BEC)) will be appointed by the appropriate DoD Component responsible for the installation. The BEC appointed for each base will work for and within the DoD Component organization and will have the responsibilities and implementation authorities for environmental cleanup programs related to the transfer of the installation's real property. The BEC shall have experience commensurate with the responsibilities of the position. The regulatory entities are preparing similar policies to provide members to the BCT of comparable experience who will possess the requisite authority from their respective organizations to take the actions stipulated in this policy.
3. The BEC, in conjunction with other members of the BCT, will conduct a "Bottom Up" review of the environmental cleanup. The "Bottom Up" review will include an evaluation of the existing environmental programs such as the Installation Restoration Program, Closure Related Compliance Program, and the Asbestos Program to identify opportunities for acceleration to expedite conveyance of property. Potential areas for acceleration include, but are not limited to:

- a. Review of selected technology for application of expedited solutions.
- b. Implementation of immediate removal actions to eliminate "hot spots" while investigation continues.
- c. Identification of clean properties.
- d. Identification of overlapping phases of the cleanup process.
- e. Use of improved contracting procedures.
- f. Interfacing with the community reuse plan and schedule.
- g. Embracing a bias for cleanup instead of studies.
- h. Validation of technology of the proposed remedy selection to ensure conformance with Fast Track Cleanup objectives.
- i. Identification of opportunities for application of presumptive remedies.
- j. Using innovative management, coordination and communication techniques (e.g., partnering).

The product of this review will be a BRAC Cleanup Plan (BCP) which will be the road map for expeditious cleanup necessary to facilitate conveyance of property to communities for redevelopment. The BCP will be a phased plan which encapsulates and prioritizes requirements, schedules and cost of the environmental programs to be implemented by the BCT for completing environmental action in support of the cleanup, reuse and redevelopment of the base. For sites with existing Federal Facility Agreements (FFA), Interagency Agreements (IAG), or similar cleanup agreements, orders or decrees, the BEC will propose and negotiate changes needed to expedite cleanup.

## B. RESPONSIBILITIES

1. For the purposes of carrying out this policy, the Secretaries of the Military Departments and the Director of the Defense Logistics Agency, through their organizations, shall be responsible for:

- a. Identifying the DoD Representative (the BEC) for each installation and notifying the DUSD(ES) of the Representative's name and address by September 1, 1993.
  - b. Delegating to the BRAC Environmental Coordinator (BEC), to the extent permitted by applicable law, authority and responsibility for the execution of all environmental cleanup programs related to the transfer of the base or parcels within a BRAC Cleanup Plan (BCP).
  - c. Ensuring that all BECs are adequately trained to execute their responsibilities.
  - d. Making the resources (e.g., technical expertise, contracting, legal, financial) available to the BEC for executing the cleanup programs.
  - e. Acting on the BCP within 30 days of receipt.
  - f. Programming and budgeting for the resources required to execute the BCP.
  - g. Providing implementing instructions for this guidance.
  - h. Providing oversight of the BEC's actions.
2. The responsibilities of the BEC shall include:
- a. In conjunction with the other members of the BCT, conducting a "Bottom-Up" review of the environmental cleanup programs and submitting the resulting BCP to the respective component by March 31, 1994.
  - b. Contacting the appropriate U.S. EPA Regional Office and state environmental regulatory agency and forming the BCT.
  - c. Implementing all environmental cleanup programs related to closure in an expeditious and cost effective manner in accordance with the BCP.
  - d. Negotiating appropriate cleanup and abatement actions with EPA and state BCT members.

- e. Identifying resource requirements for cleanup and abatement actions.
- f. Acting as the liaison/coordinator with appropriate installation and headquarters commanders with regard to closure-related environmental compliance matters.
- g. Participating, in conjunction with other BCT members, as a member of the community's Restoration Advisory Board (RAB) and acting as liaison to the DoD Transition Coordinator on environmental matters affecting the leasing or conveyance of property (e.g., cleanup schedules and priorities, cleanup actions and levels, reports to community leaders on cleanup progress and/or possible impediments to a lease or conveyance).
- h. Providing direction on the use of BRAC environmental funds to accomplish cleanup and abatement actions within resources available.
- i. Proposing and executing changes to existing cleanup agreements, orders and decrees, and other environmental procedures to achieve timely and cost effective cleanup.
- j. Serving as the Program Manager or the Remedial Program Manager where the installation has an FFA, IAG, or other regulatory cleanup agreement, order or decree.
- k. Signing the Record of Decision for cleanup actions under CERCLA.
- l. Signing the decision documents for corrective actions related to cleanup under RCRA once the operational mission has departed, and removal actions under CERCLA.
- m. Signing the decision documents for corrective actions related to cleanup under applicable state laws, regulations and programs.
- n. Signing the installation's Environmental Baseline Survey.
- o. Signing uncontaminated parcel determinations under CERFA.

- p. Providing input to the Finding of Suitability to Lease (FOSL) and Finding of Suitability to Transfer (FOST).
- q. Establishing and maintaining the Administrative Record and Participation Procedures required under CERCLA and administrative records of all actions taken with regard to the cleanup of the installation.
- r. Maintaining an awareness of the status of site activities and intervening as warranted to ensure expeditious project completion.
- s. Integrating property transfer priorities into the cleanup program.
- t. Certifying construction requested by lessee will not interfere with the environmental cleanup program.

#### V. ISSUES RESOLUTION

Issues affecting the execution of environmental cleanup programs should be resolved at the BCT level. For sites with existing FFAs, IAGs, or other agreements, orders, or decrees, issues which cannot be resolved by the BCT will be handled in accordance with existing dispute resolution procedures. For sites covered under the Defense - State Memorandum of Agreement (DSMOA) program without other agreements, orders, or decrees in place, disagreements will be resolved through the Dispute Resolution provision in the DSMOA. Where disputes arise at sites without any dispute resolution procedures in place, resolution will be made at the Component Deputy Assistant Secretary level.

DOD GUIDANCE ON IMPROVING PUBLIC  
INVOLVEMENT IN ENVIRONMENTAL  
CLEANUP AT CLOSING BASES

I. PURPOSE

This guidance implements the President's plan to expedite the closure and reuse of closing military bases. This guidance directs the Components to involve the community near a closing base in the cleanup program by making information available, providing opportunities for comment, and establishing and seeking public participation on a Restoration Advisory Board (RAB).

II. APPLICABILITY AND SCOPE

This guidance applies to all Department of Defense (DoD) bases being closed or realigned pursuant to the Base Closure and Realignment Act of 1988 (P.L. 100-526) (BRAC 88) or the Defense Base Closure and Realignment Act of 1990 (P.L. 101-510) (BRAC 91, 93 and 95) and where property will be available for transfer to the community. The policy explains DoD intent in establishment of RABs, fundamental responsibilities of the RAB, and procedures for the RAB.

III. POLICY

It is DoD policy to:

- A. Be open, cooperative and forthright with the public concerning environmental cleanup activities and to make information on program activities available in a timely manner.
- B. Provide opportunities for and encourage public comment on documents and proposed activities and to be responsive to comments.
- C. Establish an RAB at closing and realigning bases where property will be available for transfer to the community. The RAB will work in partnership with the Base Cleanup Team (BCT) on cleanup issues and related matters. Through the RAB, stakeholders may review progress and participate in the decision making process.

#### IV. PROCEDURES AND RESPONSIBILITIES

##### A. PROCEDURES

1. An RAB will be established at each closing and realigning base where property will be available for transfer to the community. The RAB will:
  - a. be comprised of DoD Component, United States Environmental Protection Agency (EPA) and state representatives and members of the local community;
  - b. be jointly chaired by a DoD Component representative (the BRAC Environmental Coordinator [BEC]) and a member of the local community;
  - c. meet the requirements of 10 USC Section 2705(c), Department of Defense Environmental Restoration Program, which directs DoD to establish Technical Review Committees (TRC). Where TRCs or other similar groups already exist, they shall be expanded or modified to become RABs, rather than creating a separate committee.
2. The DoD Components will seek to include on the RAB members who reflect diverse interests within the community (e.g. representatives of the local Land Reuse Committee, representatives of citizen, environmental and public interest groups; local government and individual community members). RAB members may be nominated by regulatory agencies. The DoD Component should accept the nominations unless it determines that the nominees would not reflect the full range of views within the community. The membership selection process will be conducted in an open manner.
3. A point-of-contact for cleanup information shall be identified at the installation level (normally the BEC). A second point-of-contact (e.g., at higher headquarters) to resolve problems in obtaining information shall also be identified.
4. Information on cleanup activities, such as draft and final technical documents, proposed and final plans, status reports, etc., will be provided to the RAB and made available to the public in a timely manner. Public comments will be actively

solicited and considered before documents are finalized.

5. Vehicles for disseminating information such as public meetings, bulletins, and central repositories shall be identified and used consistently.

## B. RESPONSIBILITIES

### 1. The DoD Components shall:

- a. Ensure that the policies stated in this memorandum are implemented by their respective organizations;
- b. Ensure that adequate administrative support is available to establish RABs and conduct public outreach;
- c. Conduct oversight of public outreach activities.
- d. Ensure that:
  - i. community relations plans are developed or revised to reflect these policies;
  - ii. RABs are established expeditiously and that their inputs are fully considered in decision making in the cleanup program; and
  - iii. installation public affairs staff are involved in public outreach activities of the cleanup program.

### 2. The RAB will:

- a. act as a forum for discussion and exchange of cleanup information between Government agencies and the public;
- b. conduct regular meetings, open to the public, at convenient times;
- c. keep meeting minutes and make them available to the public;
- d. develop and maintain a mailing list of names and addresses of stakeholders who wish to receive information on the cleanup program;

- e. review and evaluate documents;
- f. identify project requirements;
- g. recommend priorities among sites or projects;
- h. identify applicable standards and, consistent with Section 121 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), propose cleanup levels consistent with planned land use.

PT AGENDA

**AGENDA SUMMARY  
NAVBASE CHARLESTON  
PROJECT TEAM MEETING  
11 June 1996  
8:00 A.M to 4:00 P.M.  
Naval Reserve Center, Room ???**

Meeting Chairperson - Paul Bergstrand  
Meeting Scribe - Doyle Brittain

8:00 - 8:15 - Introductions  
8:15 - 8:30 - Review Agenda, add/modify as needed.  
8:30 - 9:00 - Discussion on what should be included in Meeting Minutes  
9:00 - 9:30 - Review Action Items  
10 minute break  
9:40 - 10:30 - Budget Information  
10:30 - 12:00 Groundwater Model Discussion  
12:00 - 1:30 Lunch (Southdiv's "Spring Fling" ; barbeque lunch at the Air Force Base, please bring \$5 for your ticket)  
1:30 - 4:00 Zone H RFI Report

12 June 1996  
8:00 A.M to ???  
Naval Reserve Center, Room ???

8:00 - 8:15 - Review Agenda, modify/delete as needed  
8:15 - 8:30 - RAB Meeting Debrief (Observations, critique, action items)  
8:30 - 9:30 - Environmental Condition of Property Map discussion.  
10 minute break  
9:40 - 10:30 - Work load and Priority Ranking (Matrix)  
10:40 - 12:00 Team Ground Rules  
12:00 - 1:00 Lunch  
1:00 - 1:30 Building 79 investigation report  
1:30 - 4:00 Miscellaneous Topics

OPTIONAL FORM 99 (7-90)

**FAX TRANSMITTAL**# of pages **5**

To <b>DONE BARKUS</b>	From <b>TONY HUNT</b>
Dept./Agency	Phone # <b>803 820 5525</b>
Fax # <b>901 372 2454</b>	Fax #

NSN 7540-01-317-7368

5099-101

GENERAL SERVICES ADMINISTRATION

**AGENDA**  
**NAVBASE CHARLESTON**  
**PROJECT TEAM MEETING**  
11 June 1996  
8:00 A.M to 4:00 P.M.  
Naval Reserve Center, Room ???

Meeting Chairperson - Paul Bergstrand  
Meeting Scribe - Doyle Brittain

8:00 - 8:15 - Introductions

8:15 - 8:30 - Review Agenda, add/modify as needed.

8:30 - 9:00 - Discussion on what should be included in Meeting Minutes

Objective; Several team members have voiced concern that we may be attempting to document too much discussion in our meeting minutes. The intent of this agenda item is to determine what we need to include in our meeting minutes.

Presenter; Paul Bergstrand

Decision Required.

9:00 - 9:30 - Review Action Items

10 minute break

9:40 - 10:30 - Budget Information

Objective; The Navy is in the process of developing the budget for FY 97. This budget and execution plan as well as the process that the Navy used to develop the budget will be shared with the team. The intent of this discussion is to provide information on the development of the budget and solicit team input to ensure we are requesting sufficient funds to meet our requirements as well as our capabilities. Input is especially requested for the execution plan will determine the schedule of implementation.

Presenter; Daryle Fontenot

Information only.

10:30 - 12:00 Groundwater Model Discussion

Objective; The intent of this agenda item is to discuss the use of the groundwater model in increasing our understanding of flow conditions and contaminant transport in the surficial aquifer at Naval Base Charleston. The capabilities and potential uses of the model will be presented by USGS. Based on the team discussion, the USGS will further refine the model as it exists in order to meet our needs.

Presenter; Tony Hunt, Ted Campbell (USGS)

Decision required; What information do we need from the groundwater model.

12:00 - 1:30 Lunch (Southdiv's "Spring Fling"; barbeque lunch at the Air Force Base, please bring \$5 for your ticket)

1:30 - 4:00 Zone H RFI Report

Objective; This agenda item involves the discussion about the zone and site maps that have been generated by Ensafe, as well as discussing the comments to Zone H RFI report. Responses to the comments will be discussed.

Presenter; Todd Haverkost

Decision Required

12 June 1996  
8:00 A.M to ???  
Naval Reserve Center, Room ???

8:00 - 8:15 Review Agenda, modify/delete as needed

8:15 - 8:30 RAB Meeting Debrief (Observations, critique, action items)

8:30 - 9:30 - Environmental Condition of Property Map discussion.

Objective; Daryle Fontenot brought this issue up for discussion at the May meeting. The issue is that this map is used as a measure of progress at Navy HQ. The map is an indication of two things, the amount of information that is known about environmental hazards on the property as well as the usability or transferability of the property. The implication here is that if we cannot show that we have collected sufficient information to move the property out of gray into other colors, we may lose out to other facilities in competition for funding.

Presenter; Daryle Fontenot

Decision Required. Can we update maps based on the information we currently have.

10 minute break

9:40 - 10:30 - Work load and Priority Ranking (Matrix)

Objective; This is a follow up item from the discussions held in May on the Priority assignment on the Project Status sheet. The issue is that the team needs to determine collectively how to prioritize the workload and react to emergent items.

Presenter; Team

Decision Required.

10:40 - 12:00 Team Ground Rules

Objective; The purpose here is to finalize and adopt the team ground rules which were discussed during the April Project Team meeting. Please review the list that was included in the minutes of the April meeting so that the discussion may go quickly.

Presenter; Cecil Lacey

Decision Required.

12:00 - 1:00 Lunch (Any suggestions?)

1:00 - 1:30 Building 79 investigation report

Objective; This agenda item was added as a follow up to last months presentation. The results of additional soil data are to be presented if available. The objective is to achieve team consensus on the sampling effort and determine if further action is warranted.

Presenter; Todd Haverkost

Decision Required.

1:30 - 4:00 Miscellaneous Topics

This time period is open for additional discussion on issues that remain unresolved or for new business. The first item was supposed to be part of the agenda but was omitted because I was not sure what it was.

1.) Applicability of groundwater results. Objective and Presenter are unknown.

2.) Zone K Work plan;

Objective; The objective of this item is to discuss the DQO process and application of the process to our field investigations, in this case Zone K, to ensure that the data we are collecting is of sufficient quality to

support the decision that is required. Tony Hunt has prepared a point paper that applies the process to the sites within Zone K. The process will be discussed and if time permits we will apply the process to an individual site to determine our analytical and sampling needs. Remaining sites can be discussed at the next conference call or next meeting.

Presenter: Tony Hunt

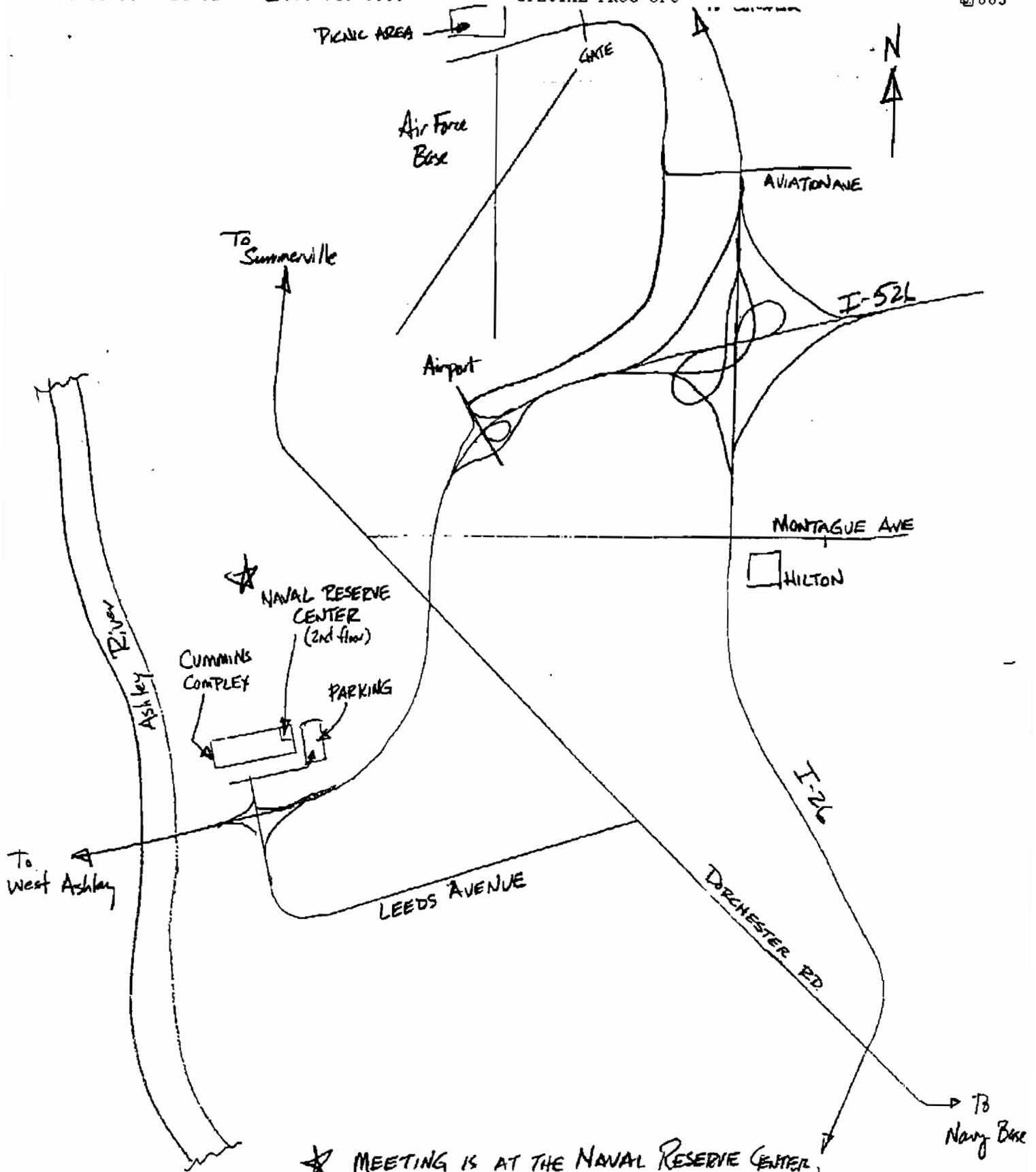
Information only

### 3.) Involvement of Academia

Objective: The College of Charleston and Medical University of South Carolina have expressed an interest in conducting research at the Naval Base. An example of the nature of the research being proposed includes; Geochemical studies to determine chronology, deposition rates, vertical profile and potential remedial alternatives for metals in Shipyard Creek sediments; a study of microbiological degradation of PCBs in marine sediments; "Fingerprinting" PAHs and other petrogenic compounds in sediments to determine source and contribution; and Geochemical modeling of the distribution of inorganic and organic constituents between soil, groundwater, sediment, surface water and biota as a result of the influence of acidic leachate and contaminant contribution of the coal pile. The research will be requested to be conducted within a time frame that supports the Corrective Measure Studies for the site or zone of interest in order to be useful by the project team in selecting remedies. The cost of each project will depend on the requestor (some MUSC projects are already funded by grants) and the analytical requirements of the project. Typically we are dealing with labor to employ graduate students for two semesters and analytical costs of the studies. Since we are dealing with geochemical parameters such as major cations and anions, pH, TOC, DO and possibly some radiocarbon analysis, the analytical cost is much less than the chemical analysis by SW-846 methods. The team is encouraged to provide any other areas of interest where studies may be conducted to increase our knowledge and reduce uncertainty of site conditions. All proposals will be presented to the team prior to implementation.

Presenter: Tony Hunt

Decision required; Is there any objection to academia involvement.

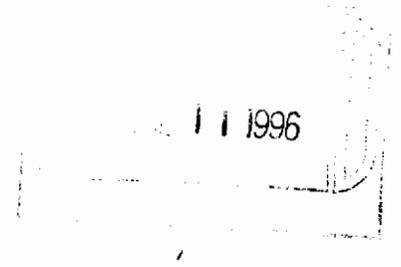


★ MEETING IS AT THE NAVAL RESERVE CENTER,  
 ONCE INSIDE THE BUILDING ENTRANCE TAKE  
 ELEVATOR OR STAIRS TO 2ND FLOOR, PROCEED  
 RIGHT TO END OF HALL. SIGNS WILL BE  
 POSTED AT END OF HALL TO PROVIDE  
 DIRECTIONS TO ROOM.

PT MINUTES

July 5, 1996

NAVAL BASE CHARLESTON  
PROJECT TEAM

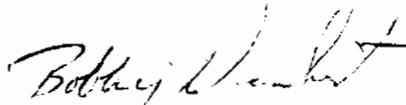


From: Bobby Dearhart  
To: Project Team Members

Subj: JUNE PT MEETING MINUTES DISTRIBUTION

Encl: Naval Base Charleston Cleanup Project Team Meeting Minutes for June 11  
and 12, 1996

1. Enclosed are the meeting minutes from the June 11<sup>th</sup> and 12<sup>th</sup>, 1996, Project Team meeting. Consensus was obtained at the July 2<sup>nd</sup> Project Team meeting to accept the minutes pending final review by Paul, Johnny and Tony. All comments have been received and incorporated.

  
BOBBY DEARHART  
SCRIBE

Copy to:  
Cecile Lacey (Galileo facilitator)  
Joe McCauley (SOUTHDIV Tier II link)  
Bob Milner (NAVSEA Program Manager)  
Tommy Odom (SUPSHIP PORTSMOUTH Deputy)

**Naval Base Charleston Cleanup Project Team  
Meeting Minutes  
June 11 and 12, 1996**

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Bo Camp was introduced as the new representative of the Caretaker Site Office.

Agenda Changes:

- Doyle • add pre-Restoration Advisory Board (RAB) presentation
  - discuss how Project Team (PT) will relate with RAB
  - Interim Measures (IM) discussion
- Bobby • BRAC Cleanup Team (BCT) responsibilities discussion
  - Chicora Tank Farm (CTF) update
  - Solid Waste Management Unit (SWMU) 178 / Area of Concern (AOC) 656 from Resource Conservation and Recovery Act (RCRA) to Underground Storage Tank (UST) program
  - 60% Zone E review
- Todd • sampling parameter discussion
- Tony • discuss Unexploded Ordnance (UXO) Plan of Action (POA)
  - Project Status sheet update
- Daryle • July PT meeting and East Coast BCT Conference
  - updates on Buildings 64, 66 and 67 reuse
  - update on Finding of Suitability to Lease (FOSL) and Environmental Baseline Survey to Transfer (EBST)

Meeting Minutes:

Question was presented as to what is needed in the meeting minutes? Problem that taking and preparing minutes is a time consuming task and the need for the expenditure of time should be reviewed. The discussion varied from simple documentation of actions and decisions to detail documentation of discussions and presentations. Concern over "I said - you said" puts people on defensive. Established that BRAC and DERA funding cannot be used to hire a scribe for the PT meeting and that it is the responsibility of the PT to provide its own minutes. Bobby volunteered to be permanent scribe to capture discussion details which back up decisions and actions. **Team consensus was provided to try Bobby taking minutes for 2 to 3 months on middle ground capturing ideas, decisions and actions and the critical supporting points.**

Bobby made presentation to Doyle from NAVSEA 08 Admiral DeMars for support in releasing the Naval Base from radiological controls for unrestricted use.

Action Items from May PT Meeting:

Status on the action items listed in the draft May PT meeting minutes were presented as follows:

A) Tony stated that action not complete. Tony will check with Gabe Magwood and Wayne Cotton of SOUTHDIV to provide CTF closure details to Harold Seabrook at SCDHEC. Is a closure plan required and who will provide? ***Tony accepted action to research this by 25 June.***

B) Tony still looking for input on the Project Status sheet. ***Tony requested that the PT review the Project Status sheet and fill in the Estimated Completion Dates (ECD) where applicable.*** The Project Status sheet will be handed out at the RAB only if consensus demonstrates that it meets all PT members' concerns.

Paul reported actions C, E, and G have been completed. Bobby reported actions D and G completed.

H) Daryle reported action complete and that Bo Camp is the CSO representative.

I) Tony will provide Zone K discussion on June 12.

J) Daryle reported action complete and that all restrictions were in the FOSL.

K) Ground rules will be discussed by PT on June 12.

An additional action item was identified that Tony was to provide the Statement of Work (SOW) for the radiological surveys at the Defense Reutilization and Marketing Office (DRMO). ***Tony committed to a June 14 ECD.***

Pre-RAB Presentation

• Daryle provided a handout of Naval Base Charleston FOSLs/EBSLs and EBSTs for Federal Transfer. Daryle stated that this would be passed out at the RAB. This will be provided as "Information Only". The handout shows that work is being accomplished. Comments from the PT were requested:

- Recommendation that "Unknown" be deleted from the Description column. This leaves the reviewer with questions as to what is being hidden.

- Recommended that the word "Lease" be added for clarification and easier understanding.

The following statistics were provided:

≈ 400 buildings were included in FOSLs

58 were leased

44 were licensed

37 Federal to Federal transfer

75 CSO serving as host

Remainder not in use

**Team consensus was provided that the handout should be provided to the RAB.**

- RAB Agenda for June 11<sup>th</sup> was passed out. Bobby was concerned that the RAB community members were not taking part in the Subcommittee presentations. These reports were established to get the community members more involved as owners. It was decided that this should be tabled until the discussion on RAB Roles and Responsibilities.

- Environmental Cleanup Progress Report

- Tony made general presentation on the continuation of Groundwater Monitoring. Anticipated community member question included: What do we get out of continuing to monitor wells? Answer - Environmental Detachment was accomplishing. The results can effect the RFI report.

- Tony presented a brief on the status of procedures and reports. Stressed that these reports were significant for property transfer. Comment made that this only clears for RCRA but all other environmental programs must be evaluated also. Cecile stated that the PT must think as community members to help the presenter with anticipated comments. Following comments were provided:

- ♣ Don't fluff up answers. This looks as if something is being hidden.
    - ♣ When property is being transferred, all environmental programs must be reviewed. The RFI only addresses the RCRA concerns. More emphasis should be placed on other environmental programs.
    - ♣ July RAB will include people from the East Coast BCT Conference. All zones should be discussed. Contamination maps should be available and all environmental programs (asbestos, TSCA, lead, UST, etc) should be discussed. Recommended that this be announced at the RAB tonight.
    - ♣ Concerns were expressed that information would be presented prior to regulatory reviews.
    - ♣ A recommendation was made that an update of the Environmental Condition of Property Map should be provided.
    - ♣ It was identified that a RAB prebrief would not be possible because of the BCT conference unless the PT meeting for July was on some other day. This will be discussed later.
    - ♣ Recommended that the same answers used in previous RAB meeting concerning GW modeling be used again.

Brian presented the brief on the IMs update. No issues identified.

**Consensus was provided that additional time was needed for RAB discussion.**

- Chicora Tank Farm Closure

- Daryle reviewed the options in closing the Chicora Tank Farm which include:

- a. Abandon in-place and fill with inert material
    - b. Partial demolition to roof
    - c. Partial demolition to ground
    - d. Total demolition and removal

The Navy picked option a. because it met agreement with the State and also was most economical. The following points were brought out:

- ♣ No environmental problem at Chicora Tank farm. This is just a demolition of tanks.
- ♣ Recommended that “closure of tanks” be used vice “demolition of tanks”.
- ♣ The community does not seem to have an environmental problem, but it comes down to aesthetics. There is a difference of  $\approx$  \$5M between total demolition ( $\approx$  \$8M) and abandon and fill in-place ( $\approx$  \$3M).
- ♣ Partial demolition and leave in-place would require a solid waste permit for a land fill from the State.
- ♣ Past experience with these types of situations shows that the people are not happy with the Navy’s decision. Are there other options? Tanks are in a socioeconomically deprived area, community does not agree that Navy action will allow reuse of land, adjacent to elementary school that wants to use land, North Charleston City Council Person and school superintendent are big advocates to have tanks demolished and totally removed. Potential for a Congressional inquiry.

The following were recommended when addressing this issue to the public:

- ♣ There is no environmental problem at Chicora Tank Farm.
- ♣ It is within the authority of the Navy to select the abandon in-place option, and is beyond the control of the local Navy, EPA and State.
- ♣ Cecile stressed that this must be a team answer.
- ♣ If people ask who can they talk to, team answer is there exists a person who is the liaison between the community and Navy. This person is the Base Transition Coordinator (Mr. Jim Moore). **Team consensus on BTC being the person for community liaison. Action for Daryle to notify BTC of this recommendation by 6/14.**

- Project Status Sheet -

The agreements reached for content of Project Status Sheet for RAB are:

- ♣ Do not include ECD for “Next Action”
- ♣ Do not include Priority/Driver until PT agreement.
- ♣ Include Project Description, Program, Action Required, Action Required ECD, Next Action, Impact and Acronym List.

Does PT want to give the Project Status Sheet to the RAB at the next meeting? **PT consensus to provide at the next RAB meeting.**

- Roles and Responsibilities of the RAB - Doyle discussed the R&R of the RAB as discussed in Appendix B of the “Purple Book” (DoD BCP Guidebook, Fall 1993). Concerned that PT is not following DoD policy which may have impact on decisions in the future. Considers that RAB members must be more involved on what is going on at Naval Base Charleston. Some bases the RAB is basically non-existent, where at Cecil Field the RAB is very active. In review of the RAB responsibilities on page 3 of Appendix B of the Purple Book, the RAB will:

- a. act as a forum for discussion and exchange of cleanup information between Government agencies and the public - (Charleston does);
  - b. conduct regular meetings, open to the public, at convenient times - (Charleston does);
  - c. keep meeting minutes and make them available to the public - (Charleston does);
  - d. develop and maintain a mailing list of names and addresses of stakeholders who wish to receive information on the cleanup program - (Charleston does);
  - e. review and evaluate documents - (\* Charleston does not do)
  - f. identify project requirements - (Charleston does not do);
  - g. recommend priorities among sites or projects - (Charleston does not do);
  - h. identify applicable standards and, consistent with Section 121 of CERCLA, propose cleanup levels consistent with planned land use - (Charleston does not do)
- \* Not done at Charleston at present due to RAB members deciding that the documents were to large and complicated.*

Doyle stated that the RAB should be included in the total decision process and that all Draft documents should be made available to the RAB.

**PT consensus was reached on the need to continue trying to get the RAB more involved.**

The following suggestions were identified on how to get the RAB more involved:

- ♣ Place all documents in the information repository
- ♣ Give RAB members documents.
- ♣ Review one area in detail to reduce over powering with information.
- ♣ Ask for issues of interest.
- ♣ Provide summary of documents.
- ♣ Increase people's interest.
- ♣ Ensure RAB members know their Roles and Responsibilities.
- ♣ Make a "prudent effort" to get public involved.
- ♣ Understand that lack of involvement could eventually become a show stopper.

**PT consensus was reached to:**

- ♣ **Provide training to new RAB members and provide a RAB training book;**
- ♣ **Ask RAB how they see their Roles and Responsibilities;**
- ♣ **Review and revise the RAB charter as applicable.**

Ann summarized that it is our responsibility to support the community.

*The plan of action for implementation is:*

- ♣ *Issue above information to RAB in July.*
- ♣ *Start discussions and begin implementing changes in August.*
- ♣ *Daryle, as the BEC, will take the lead.*

- Ann requested time to address a couple of concerns that the State has:

♣ The State does not agree that funding is a reason to change the color of property on the Environmental Condition of Property Map. Technical reasons are the only justification to change colors.

♣ The State’s management considers improvements are needed at the DoD bases. There is a large turnover within the SCDHEC from DoD work to other work. The impacts of Partnering are being reviewed. Also State management is concerned over personal attacks during the meeting and that this type of action is highly inappropriate.

Post-RAB Review

The following pluses and minuses on how the June 11<sup>th</sup> RAB meeting went were provided PT.

PLUS	MINUS
<ul style="list-style-type: none"> <li>• well prepared</li> <li>• controlled</li> <li>• honest with RAB</li> <li>• assertiveness on positions</li> <li>• recapped and summarized problem</li> <li>• anticipated questions</li> </ul>	<ul style="list-style-type: none"> <li>• SOUTHDIV XO did not like Chicora Tank Farm answer</li> <li>• Navy does not take a stand</li> <li>• RAB uninformed on Priority Placement Program (PPP)</li> <li>• selective hearing by RAB</li> <li>• need to ask for other solutions</li> <li>• need to bring options to RAB, not just decisions</li> <li>• division of team [Navy did because of regulators] should be because of Navy, EPA and DHEC</li> </ul>

Paul observed that the RAB members (Mintz specifically) picked up on non-verbal expressions (Mintz attack on Daryle for smiling). Body language is important.

***Brian has action to discuss PT decision of how to present Chicora Tank Farm issue to RAB and community with SOUTHDIV XO (Capt. Augustin) by 6/13.***

GW Modeling -

Tony introduced Ted Campbell (USGS, Columbia office) and Bruce Campbell (USGS, Charleston office) who have been working on a GW modeling project for the Naval Base. Tony stated that there were two objectives with the presentation:

1. To show how this model can be used as a predictive tool in the CMS; and
2. To show the state of the model now, how it is being developed , and how it can be applied.

Ted provided a handout titled “Development of the Charleston Naval Base Ground-Water Flow Model -- as of June 11, 1996”. The handout and subsequent presentation identified how the model was developed, the region that it covered and some of its applications and capabilities. At

present only the regional model has been developed and will be further calibrated for the Naval Base. The final model will represent what is known from available data.

The following potential uses were identified for the model:

- ♣ Computes volume of water entering and leaving a cell.
- ♣ Identifies potential migration pathways from a site which would help identify sampling locations.
- ♣ Helps locate long term monitoring well installations.
- ♣ Allows back tracking to help identify the source of a contaminate.
- ♣ Helps identify off-base to on-base contamination migration.
- ♣ Helps evaluate corrective measures and ongoing cleanup measures.
- ♣ Helps evaluate solute mixing - what will happen if contamination is left in-place.
- ♣ Helps determine particle movement from point-to-point based on GW flow velocity.
- ♣ Provides a cross check of other hydrogeologic information.

The following questions and answers, and comments were discussed:

♣ Will the fate and transport presented in RFI reports support the GW model or will one oppose the other? Todd stated that the model supports what Ensafe is plotting.

♣ How long will it be before a report is ready? The Draft of the regional technical memorandum can be provided anytime. The only question is what is wanted to be included in this technical memorandum. Estimate of 3 months before the local model will be ready. An early October local technical memorandum would support the CMS in Zone H.

♣ Doyle stated that we must be able to defend any money spent. EPA management sees much money spent with little cleanup accomplished.

♣ Paul concerned that he has not seen any plans until now and that he is not very familiar with the model. Do we really need it - what is the value added? Tony stated that it will have more use down stream with the CMS for remedial systems determination. Tony considers a site specific presentation may better demonstrate the value added. Tony would like to provide a better definition of what the model can do for Naval Base Charleston at the next PT meeting. Johnny requested that an information package be provided to the PT members prior to the next meeting to allow time for review.

Tony identified that additional funding would be required to continue the GW modeling. Doyle suggested that the PT should authorize USGS to complete the present study and present a regional and local technical memorandum with assumptions and uses. The technical memorandum should be prepared by October 1996 for PT discussion. **PT provided consensus.** *Tony has action to provide the regional and local technical memorandum to the PT to support the October PT meeting.*

### Zone E 60% Progress Report

Tony introduced Greg Temple (Ensafe Zone E Project Manager) and Jack Mayfield (Ensafe Zone L Project Manager) for the 60% progress presentation. A Technical Memorandum, subject: Zone E RFI 60% Progress Report, dated June 12, 1996, was passed out.

Greg stated that the objective was to present the information and obtain feedback from the PT on the proposed second round sampling in Zone E. He stated that 25 sites had been identified requiring second round sampling. Discussion began with SWMU 5,18 and AOC 605. Kevin identified that AOC 621 was not included in this array. Greg stated that the sampling did however cover AOC 621 and Tony stated that this was known and would be resolved.

Doyle was concerned that this Technical Memorandum, although very good, was too much to be absorbed during this PT meeting and make intelligent decisions. He requested that time be allowed for review of the memorandum with feedback in 2 weeks.

Tony and Greg stated that the information to be provided was in the technical memorandum handout and that the main objectives of the presentation were to :

- ♣ Reduce the analytical for soils in second round sampling based on what was identified during first round. The second round was an attempt to define extent.
- ♣ Identify the worst sites which could possibly be candidate IMs.
- ♣ Define sediment sampling in catch basins.

It was stated that contaminants were being identified in all storm drains and catch basins in Zone E. These should be considered as soils vice sediments which would allow the soil RBCs to apply. Doyle and Johnny agreed.

A handout was provided with a GW sampling summary showing reduced analytical parameters.

**Consensus was reached that the Technical Memorandum on 60% Zone E Progress Report would be reviewed and comments provided to Daryle by 6/28. Action assigned to all PT members to review the 60% Zone E Progress Report and provide comments to Daryle by 6/28.**

## UXO

Brian discussed the UXO background and options. SOUTHDIV has issued a letter to the Environmental Detachment providing guidance to request EOSD to provide a Technical Memorandum for a Risk Assessment or what is considered prudent for search. This will be presented to the PT.

Johnny stated that the State has issued a letter to SOUTHDIV requesting a workplan within 30 days on how the Navy would search for the UXO. The State will not accept only a RA, but needed a geophysical search also. The workplan should cover all four UXO sites. The State will consider a request for extension on the workplan submittal. **Brian has action to request an extension from the State by 6/28.**

Brian asked what the State considered was a "Prudent Search". Johnny stated that if the UXO were not found during the search, then a RA would need to show the risk. The areas would

also have use restrictions invoked (deed restrictions). ***Brian has action to discuss with EOSD “due diligence” search plan of action by TBD.***

Doyle identified that this will be as, if not more so, explosive then Chicora. The community will have a negative reaction. The RDA has already stated that deed restrictions are not acceptable. Hayes recommended that this be presented to the RAB prior to making a decision and asking the RAB what they think should be done. ***Brian has action to present the UXO issues to the RAB by TBD.***

### Chicora Tank Farm Acquisition

Bobby stated for information that the SOUTHDIV had been told by DFSC that the closure of the Chicora Tank Farm would be by competitive bid. This will put the start of work at the beginning of 1997 and by going competitive will prevent the Detachment from being considered to do the job. This is being pushed up the NAVSEA chain to get support to change the process.

Hayes stated that a point paper had been passed to Sid Allison as a “Customer Relations” issue.

### Move from RCRA to UST

A RCRA permit modification will be required to the HSWA portion of the permit. Petroleum sites in IR to UST will be considered on a case by case basis by the State after review of data. The permit modification would be considered a “minor mod” only requiring a letter with a request and justification. This does not require any public involvement. The letter should be addressed to Randy Thompson with copies to Tim Mettlen and Doyle Brittain. Any transfers will be included in the RFI report documenting the transfer of the site from the RCRA program to the State UST program. ***Kevin has action to identify candidate RCRA sites to be moved to the UST program and provide input for permit modification by 7/2.***

### Work Load Priority

Discussion on workload/priority ranking continued from May PT meeting to resolve concerns on scheduling and completing document reviews. An exercise was suggested to develop a matrix of Priority Drivers versus Benefits. Question was posed as to what the PT is trying to get out of this exercise and how will it be used when finished. General discussion included that a priority system would identify which project/document needs attention first. This could become a problem in that priorities can change as new projects/documents are identified and as needs change. A numerically scored matrix does not take all aspects and each PT members concerns into consideration. It was agreed that the matrix exercise was not necessary.

The PT agreed to:

- ♣ View documents equally

- ♣ Respond to politics
- ♣ Respond to team member needs
- ♣ Remain flexible

**PT consensus was reached on:**

- 1. Decide as a group on priorities. This will be a standing PT agenda item.**
- 2. Concentrate on the Project Status Report with reviews based on complexity (project size or site size).**
- 3. Consider which item has most impact.**
- 4. Identify and acknowledge drivers.**
- 5. All PT members will give continuous consideration to priorities and be prepared to discuss at PT meetings.**

Involvement of Academia

Tony stated that the objective would involve College of Charleston and Medical University students in Naval Base studies to support the CMS. They would perform more in-depth reviews than standard approaches to the CMS using data that was generated by Ensaf. An example would be a detail review of the metals in Shipyard Creek, helping to understand fate/transport and bio activity at sites. Any projects would be brought to the PT for consensus prior to initiating.

Doyle identified concerns that they meet requirements of the HASP, there is a personal liability, they be adequately trained and qualified (HAZWOPER), sample liability, data quality meeting regulations, and that what ever is found at the base must be controlled (ie property of the Navy - no news releases). Johnny considered it important that use of any CMS funds should be discussed with the RAB prior to using.

**PT consensus was obtained on using academia in the base projects. Further consensus was reached that the following concerns/requirements must be incorporated:**

- 1. All projects would be reviewed on a case by case basis and the expected benefits provided.**
- 2. Cost will be relatively small, < \$20K per project and will be funded from the CMS.**
- 3. Studies will mainly use Ensaf data.**
- 4. Projects can/will be used towards students BS/MS degrees.**
- 5. The PT will set the schedule and no delays will be encountered from the students.**
- 6. Students will collect other samples for data as necessary.**

PT Ground Rules

The Draft Ground Rules developed at the April 9<sup>th</sup> PT meeting were discussed to incorporate comments and gain PT consensus. It was agreed that these Ground Rules will be applicable to all visitors as well and a copy will be provided to each visitor.

The following changes were made to the Draft Ground Rules proposed May 14<sup>th</sup>: (*changes are indicated by italic/deletions are lined through*)

- Be professional
- Maintain open/*honest* communications
- ~~TEAM vs me~~
- ~~No hidden agenda: Focus on goals~~
- ~~Rotate chair and scribe~~
- ♠ • ~~Agenda items will be identified as “information” or “decision required”~~
- ♠ • ~~Team will maintain project listing with current status~~
- Respect other’s positions
- Resolve *team* conflicts as *they* occurs
- ~~Address concerns of all team members~~
- Bring skills, expertise and resources to the team
- Be flexible
- ~~Agenda before meeting~~
- Avoid surprises
- ♠ • ~~Other players (visitors/support staff) come to meetings by invitation~~
- ~~Be flexible to add new issues~~
- ♠ • ~~Minutes/notes—record of action items and decision points~~
- Be open minded
- Be proactive and innovative
- ♠ • ~~We will have a clear agenda with clear goals and follow it (including breaks)~~
- ♠ • ~~We will have action items and will follow-up and closure~~
- Respect others and have an open mind
- ~~Everyone will be on time to start the meeting and when returning from breaks and lunch~~  
*Meetings will start and end on time including breaks and lunch*
- ♠ • ~~Changing meeting times will require consensus from group~~
- We will operate *Decision* by consensus and take *with* time to affirm
- ~~Tier I (Project Team) meetings are a priority and will be scheduled so each organization can be represented~~
- All Tier I (Project Team) issues will be brought to the table and dealt with as a team
- Have fun
- ~~Work in good faith as equals~~
- No side conversations
- *Team members communicate directly with each other as needed*
- *Team members will come to meetings prepared*

Items marked by ♠ indicate that these have been added to a Team Meeting Process List.

**PT consensus was obtained on the above changes to the Ground Rules.**

The following items were added to a draft Team Meeting Process List:

Agenda items ( identified as info / decision; state goals; number all items; provide before meetings; estimate times; include breaks)  
Handouts/documents for discussion/decisions should be provided before the meeting  
Maintain project status  
Announce/introduce all visitors  
Maintain minutes with list of action items, decisions, parking lot, etc.  
Changing meeting dates and times requires group consensus  
Membership/attendance/votes will accept proxy or alternate

### Budget Information

Tony passed out a handout of Naval Base Charleston FY97 Budget. This item was delayed for discussion at a future meeting.

### Interim Measures

Doyle stated that the regulators were not being involved in the IM scoping meetings. Brian stated that he would like to formalize the scoping meetings, but that the Detachment requested not to have a formal meeting to get the IMs out as soon as possible. Doyle stated that it is important to get the regulators involved from the beginning which will ultimately cut down the time since the regulators will have already seen everything. Doyle was somewhat surprised to have been given three WPs for approval without being involved earlier. Now that the WPs have been submitted in writing EPA and the State must respond in writing with possible comments that could have been resolved prior to submittal.

The following process is now used for development of IMs:

- 1) ID candidate sites (form goals)
- 2) Scope work with SOUTHDIV
- 3) Provide Project Execution Package which includes a cost estimate
- 4) Negotiate funding with SOUTHDIV
- 5) Prepare WP
- 6) Submit WP to SOUTHDIV for review and comment resolution
- 7) Submit WP to State and EPA for review/comment resolution/approval
- 8) Initiate work

It was determined that EPA, the State and Ensafé should be involved in step 2) at the scoping meeting. This is preferred face-to-face but if not a conference call will work.

Bobby stated that SOUTHDIV needs to begin identifying IMs. The Detachment identified 11 at the conference call on 6/3 and 9 were rejected waiting on additional analysis from Ensafé.

Kevin identified two sites that the Detachment was considering as potential IMs (SWMU 5 and AOC 621). Some of the problems discussed included:

- ♣ Do you use Risk Assessment or Risk Management in evaluating potential IM sites?

- ♣ Ensafe and the Detachment could be duplicating work (ie Ensafe second round sampling/the Detachment doing screening sampling)
- ♣ Communication is very important.
- ♣ Should only the contaminated soil be removed or should the pit and pad be removed?
- ♣ Should BEQs be addressed also? The BEQs may be associated with other site activities.

Several points were brought up for general information:

- ♣ Confirmatory sampling will either prove success or will become a new risk number
- ♣ If a site is determined to have a risk of  $10^{-4}$  or greater something will be done.
- ♣ The IM site may have to be revisited if final risk numbers are too great. This brought up the concern of backfilling before confirmation sampling has been accomplished.
- ♣ During excavations do we screen then dig or screen and dig?
- ♣ The IMs must be consistent with the final cleanup goals.
- ♣ The entire site needs to be reviewed for extent and overall concerns.

**PT consensus was obtained for the following decisions:**

- 1) Use  $10^{-4}$  industrial risk as the remedial limit (worst case) for an IM. *(Johnny deferred until he could discuss with John Litton).*
- 2) **Each site will be reviewed on a case by case basis during the scoping meetings.**

Bobby brought up that during the Zone E 60% review that the soils in the catch basins and storm drains was identified as a candidate IM. This was because contaminants had been found in all catch basins sampled in Zone E. **PT consensus was given to include this as a candidate IM.**

Kevin also identified that AOC 530, the crawl space under Building 35 loading dock, had been identified as another possible IM due to lead contamination. It was decided that not enough information was available at this site to include as a candidate at this time.

### Zone K Work Plan

Tony passed out a handout Point Paper for Discussion of Zone K Work Plan by Tony Hunt dated 6/12/96. Tony requested that the handout be reviewed and that the Zone K WP discussion be added to the July PT meeting agenda. Tony hopes that this will demonstrate application of the DQO process in the Zone K RFI and will provide discussion for input into the type, quantity and quality of sampling in Zone K.

### Environmental Condition of Property Map

Daryle passed out a copy of the color coding used for the Environmental Condition of Property Map. NAVFAC Headquarters has been criticizing Charleston that a large amount of money has been spent, but the Environmental Condition of Property has not changed. To NAVFAC Headquarters this indicates no progress. Daryle requested that the PT review the map to determine if consensus could be reached on changing the colors based on the findings of the RFI before the RFI reports are issued. A copy of the original (March 1994) map was shown with

a proposed modified map. Dave gave background on how the original map was colored since he was responsible for the original development. The original map was colored mainly gray with some red and little yellow. This was based on unknown groundwater conditions and areas where remediation/abatement was presently being performed. The original map was concurred on by the BCT and original PT. The following general points were discussed:

- 1) Other bases were not all gray. These bases were not as conservative as Charleston and did not interpret the guidelines as literally as the Charleston BCT.
- 2) Last review and update of the map occurred February 1994.
- 3) Daryle would like to update map prior to RFI reports being approved.
- 4) No change = no investigation = no transfer (NAVFAC perspective)
- 5) How often should the map be updated - use common sense.
- 6) What does the team need to do to begin updating the map to show Charleston has indeed made progress?
- 7) Caution that things don't move too fast.
- 8) Should be thinking "transfer".

The State and EPA do not have problems with changing the map to red and yellow as appropriate, but is more concerned over changing to green or blue without detail review. Paul questioned what the priority is on the map. Daryle stated that it is tied into property transfer, therefore making it a HIGH priority within the Navy.

Doyle expressed the following points:

- 1) Not accurate to compare Charleston to all other bases, for example Air Force Bases tend to have large areas of pine trees and forest which can be colored white from the beginning.
- 2) Charleston was very conservative on the initial review due to the unknowns.
- 3) Moving to red and yellow is not a problem.
- 4) Prior to moving above yellow, all environmental programs must be reviewed and reported on status (ie RCRA, PCB, asbestos, UST, petroleum, LBP, etc).
- 5) EPA should be copied on all correspondence to the State.
- 6) Based on EPA review of the Zone I RFI Report, Zone I will probably be the first available property for transfer based on the RCRA program.

**PT consensus obtained that based on existing data that the Environmental Condition of Property Map can be changed from gray (category 7) to red (category 6) and yellow (category 5).**

***Bobby and Daryle have action to develop recommendation on presenting environmental program status (ie data) to update the condition of property map to green or blue.***

### July Meeting Agenda

Question was posed if July PT meeting was considered necessary. There seems to be many schedule conflicts with the East Coast BCT Conference and people out of town. Issues to support a July meeting are listed:

- 1) IMs needed to be continually discussed to support the Detachment.

- 2) The Chicora Tank Farm strategy should be discussed prior to the RAB (RDA/RAB/Politics)
- 3) Zone E Technical Memorandum needs to be discussed.
- 4) Need to maintain the continuity of the PT.
- 5) Need to follow-up on June action items.

It was agreed that a July meeting was needed. The agenda for the July meeting was established (see attached agenda). The meeting will be a one day meeting on July 2 at the Naval Reserve Readiness Center beginning at 9:30 AM and will last until items are complete. The meeting leader will be Doyle and the scribe will be Bobby.

### Cecile's Wrap-up

Cecile stated that several decisions were made during the meeting which included:

- ⊗  $1 \times 10^{-4}$  risk used as a worst case remediation level
- ⊗ Discussion of potential problems at RAB meetings
- ⊗ Keeping RAB informed
- ⊗ GW model report generation

Improvements identified:

- ⊗ Function better as a team
- ⊗ More US vice individual agency
- ⊗ Worked on how to prioritize workload
- ⊗ Finalized ground rules

Considerations that team should work on:

- ⊗ Team should think about size and composition [specifically sometimes trouble reaching decisions due to size].
- ⊗ Need to be time conscience - stick to allotted time for items.
- ⊗ Stay away from adding to the agenda at the meeting. Stick to the agreed agenda.
- ⊗ Keep comments brief.
- ⊗ Team keeps returning to previous decisions. Need to keep moving forward.
- ⊗ Need to think as a TEAM.

Suggestions:

- ⊗ Agenda should be finalized by the end of the monthly telecon.
- ⊗ Telecon should be kept to 1 hour.
- ⊗ Stay away from making decisions during telecon. Telecons should provide information and updates.

Would like to add as agenda items:

- ⊗ Read ground rules before each meeting.
- ⊗ Add time for a team building exercise, preferably on the second day. Should be added after agenda item time frames are more standardized - probably not until September meeting.

The meeting was concluded and all went home HAPPY after having a FUN TIME !

*The Draft minutes were sent to each attendee for review. PT consensus was obtained on the Draft minutes at the July 2 PT meeting dependent on review comments by Paul, Johnny and Tony. Paul, Johnny and Tony comments have been incorporated in this final set.*

**Action Items From June 11 & 12 PT Meeting**

ACTION	ECD	ASSIGNED TO
1. Provide details of Chicora Tank Farm closure to Harold Seabrook at SCDHEC.	6/25/96	Tony
2. Review Project Status Sheet and provide ECDs where applicable.	7/2/96	Project Team
3. Provide Statement of Work for radiological surveys of DRMO.	6/14/96	Tony
4. Notify BTC (Jim Moore) that he is the person that the community should talk to concerning Chicora Tank Farm.	6/14/96	Daryle
5. Provide information to RAB on ways to become involved in process.	7/9/96	Daryle
6. Begin implementing RAB involvement suggestions.	8/13/96	Daryle
7. Review 60% Zone E Progress Report and provide comments to Daryle.	6/28/96	Project Team
8. Request extension from SCDHEC on UXO work plan submittal date.	6/28/96	Brian
9. Discuss with EOSD what a "due diligence" search for UXO is considered.	TBD	Brian
10. Present UXO issues to RAB.	TBD	Brian
11. Provide candidate sites for RCRA to UST program with input for RCRA permit mod.	7/2/96	Kevin
12. Develop recommendation on presenting environmental program status to update condition of property map.	7/2/96	Bobby & Daryle
13. Discuss PT decision of how to present Chicora Tank Farm issue to RAB and community with SOUTH DIV XO.	6/13/96	Brian

## **NAVAL BASE CHARLESTON PROJECT TEAM**

### **GROUND RULES**

- Be professional
- Maintain open/honest communications
- Focus on goals
- Respect other's positions
- Resolve team conflicts as they occur
- Bring skills, expertise and resources to the team
- Be flexible
- Avoid surprises
- Be proactive and innovative
- Meetings will start and end on time including breaks and lunch
- Decision by consensus with time to affirm
- Project Team issues will be brought to the table and dealt with as a team
- Have fun
- No side conversations
- Team members communicate directly with each other as needed
- Team members will come to meetings prepared

## **NAVAL BASE CHARLESTON PROJECT TEAM**

### **PROCESS LIST**

#### **Agenda items:**

- identified as info / decision
- state goals
- number all items
- provide before meetings
- estimate times include breaks

Handouts/documents for discussion/decisions should be provided before the meeting

Maintain project status

Announce/introduce all visitors

Maintain minutes with list of action items, decisions, parking lot, etc.

Changing meeting dates and times requires group consensus

Membership/attendance/votes will accept proxy or alternate

**Naval Base Charleston Project Team Meeting  
June 11 - 12, 1996**

**Attendance Sheet**

<u>NAME</u>	<u>ORGANIZATION</u>	<u>PHONE</u>	<u>FAX</u>
Tony Hunt	SOUTHDIV	(803) 820-5525	(803) 820-5563
Bo Camp	CSO	(803) 743-9985	(803) 743-9947
Hayes Patterson	SOUTHDIV	(803) 820-5658	(803) 820-5563
Brian Stockmaster	SOUTHDIV	(803) 820-7481	(803) 820-5563
Johnny Tapia	SCDHEC	(803) 896-4179	(803) 896-4002
Todd Haverkost	E/A&H	(803) 884-0029	(803) 856-0107
Dave Backus	E/A&H	(901) 372-7962	(901) 372-2454
Paul Tomiczek	Bechtel	(423) 220-2234	(423) 220-2748
Kevin Tunstall	DETCNASN	(803) 743-6777	(803) 743-9413
Bobby Dearhart	DETCNASN	(803) 743-2821	(803) 743-0174
Doyle Brittain	USEPA	(404) 347-3555 ext 2061	(404) 347-1735
Paul Bergstrand	SCDHEC	(803) 896-4016	(803) 896-4002
Daryle Fontenot	SOUTHDIV	(803) 820-5607	(803) 820-5566
Ann Ragan	SCDHEC	(803) 734-4721	(803) 734-5407
Cecile Lacey	Galileo (facilitator)	(401) 762-2391	(401) 762-2133
Joe McCauley	SOUTHDIV (Tier II link)	(803) 820-5500	(803) 820-7465
Ted Campbell	USGS (Columbia)	(803) 750-6117	
Bruce Campbell	USGS (Charleston)	(803) 883-9104	
Greg Temple	E/A&H	(901) 372-7962	(901) 372-2454
Jack Mayfield	E/A&H	(803) 884-0029	(803) 856-0107

**Naval Base Charleston  
Environmental Cleanup Project Team  
Meeting Agenda  
July 2, 1996  
9:30 AM to Until Complete  
Naval Reserve Readiness Center**

Leader - Doyle Brittain  
Scribe - Bobby Dearhart

9:30 - 9:40	Introduction
	Revise Agenda
9:40 - 10:10	Prioritize Agenda
	Define objectives of Meeting
10:10 - 10:40	Review Minutes and Action Items from June 11 <sup>th</sup> Meeting
10:40 - 10:50	Break
10:50 - 11:00	Schedule Conference Call for July
11:00 - 12:00	Zone K Point Paper Discussion
12:00 - 12:15	Lunch (Break / Working Lunch)
12:45 - 1:15	Zone E Comments and Discussion
1:15 - 2:15	Pre-RAB Presentation Preparation
	General Discussion (30 minutes)
	Chicora Tank Farm (30 minutes)
2:15 - 2:30	Break
2:30 - 3:45	Interim Measures:
	Define Objectives (15 minutes)
	How to Expedite Process (30 minutes)
	Presentation of New Candidate Sites (30 minutes)
3:45 - 4:05	Base Condition of Property Map
4:05 - 4:15	Break
4:15 - 4:45	Project Status Presentation for RAB
4:45 - 5:15	Next Meeting
	Date, Time, Place and Leader
	Set Agenda
	Review Action Items and Parking Lot
5:15 - 5:45	Close-out and Wrap-up

# ERMA Tier II

**MEETING MINUTES**

**June 26 and 27, 1996**

*The ERMA Tier II meeting was held on June 26 and 27, 1996, in Charleston, South Carolina. An attendance list is attached to these minutes.*

## **Introductions**

One visitor, Bob Warren, USMC Region IV Component Rec., attended the meeting.

## **Meeting Mechanics**

The ground rules were read aloud and the meeting rules were reviewed. Meeting minutes from the previous meeting in Charleston were approved as final.

## **Meeting Roles**

Responsibilities were assigned as follows:

- Rich May, Scribe
- Bill Fuller, Timekeeper
- Paul Tomiczek, Team Leader

## **Meeting Goals**

- Meeting focus
- Stay on agenda
- Work hard - get done
- Workable results
- Revalidate "why we are here"
- Get through the agenda
- Closure on open action items
- Clarify objectives of reorganization
- Progress on change in this organization
- Current agenda items do not show up on next month's agenda

## **Tier I Team Updates**

### **Charleston Naval Base**

Ground rules have been finalized. This is a very large team, with perhaps too many team members. The team has assigned a permanent scribe. They

are dealing with the issue of a lot of visitors. The team needs to know what is the definition of empowerment.

### **NWS Charleston**

There has been a major turnover in team members in recent months. This CLEAN contract is transitioning from ABB to B&R. The team discussed Notice of Violation (NOV) and came to consensus on proposed solutions.

### **Whiting Field**

This installation is in transition.

### **Cecil Field**

The installation has completed their success stories. The team has asked for additional training for the subcommittee.

### **NAS Jacksonville**

They are updating the long-term strategic plan for the base. The team should focus more on the use of process tools and skills.

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**Cherry Point**

The last meeting went fairly well. They have changed the LANTDIV RPM. They will be doing three RODs by end of year.

**Lejeune**

The State RPM will be leaving soon, and the team will have to bring a new person up to speed.

**Action Item**

*The agencies should be aware of the size of the representative groups they have on teams and try to match their representation to the needs of the team.*

**Action Item**

*Facilitators should work with specific issues of team consensus versus team size.*

**Action Item**

*Facilitators should bring new members up to speed on team participation skills and tools on a case-by-case basis as team members join the team.*

Tier I teams have been struggling with the concept of empowerment. Roles and responsibilities are clear in the original assignments given to the Tier I teams as they were formed.

All teams want to graduate.

**Tier II Expectations of Facilitators**

**Goals**

- Define responsibilities and requirements for facilitators, and do it today.
- Define the list and make it consistent with the roles and responsibilities lists we have previously generated.
- Publish list of Roles and Responsibilities to all stakeholders.
- Define Tier I and Tier II facilitation expectations.
- Define genuinely achievable expectations for the facilitators not burdened with Tier I expectations.

**Problem Statement:** We have not defined the roles and responsibilities for the facilitators, both for Tier I and Tier II.

**Facilitator Roles**

**Consensus was reached on the following facilitator roles. These should be revalidated during the conference call.**

- **Recognize and suggest when and what tools should be used.**
- **Teach soft and hard tools as needed (e.g., MBTI when requested).**
- **Observe and report team performance.**
- **Facilitate, not participate.**
- **Assist team leader with managing meetings to accomplish the agenda.**
- **Facilitate team building.**
- **Follow up on Action Items assigned to facilitator.**
- **Maintain continuity of team facilitators to the maximum extent possible.**
- **Provide meeting materials.**

**Action Item**

*Pat will generate a definition of "What Facilitation Is" to go with the Roles and Responsibilities.*

**New Teams**

Bill Fuller suggested new teams for Memphis, Gulfport, and Key West. Memphis and Indianapolis team members have had training but are not yet Tier I teams. Addition of new teams is on hold until the issue can be addressed in the implementation plan for transition to State-specific Tier II structure.

**Tier I Reassignment**

Narindar handed out the USEPA's proposed changes to some of the partnering members on some ERMA Tier I teams. He described how some members are giving over some installations and taking on new ones.

## **Meeting Minutes Visibility**

### **Action Item**

*SDIV will try to get minutes linked to their home page.*

### **Action Item**

*Others will try to add a link from their home page to the SDIV home page to get to the meeting minutes.*

## **USEPA Reorganization**

N. Kumar gave an update on the reorganization of managers at USEPA. Chances are that most of the existing managers will be retained in their current positions, but there may be fewer slots available than there are now. The announcement of the new organization is expected to be made shortly after the 4th of July weekend. USEPA will be moving to new offices shortly after the end of the Olympics. The Olympics will be very disruptive to USEPA operations because it will restrict their ability to get into and out of downtown (Atlanta).

## **Stakeholder List Status**

- Stakeholder list to be complete by end of June.
- Stakeholder survey will be distributed to full list of stakeholders.

## **NOV NWS Charleston**

NWS Charleston has received an NOV from the State of South Carolina. It may be perceived by the team that they did something wrong when they have, in fact, done a good job.

**ISSUE:** They have missed CAMP dates because of the Navy's inability to fund on time due to a significant DERA money deficit.

## **Recognition Certificates**

The letters are now ready and can be signed; certificates can be made and given to Eric for delivery.

## **Georgia Status**

They have not accessed DSMOA money, but they have signed a cooperative agreement. They may be needing to access the money soon, and at that time they may be more willing to enter into partnering. They may also be getting some legislation going regarding risk-based concentration levels, which may help them with their ability to team with Navy and USEPA. The tax fee issue has not been settled yet, which is still an obstacle to partnering.

## **Response to P. Yaroschak Questions**

Bill Fuller distributed the letter from J. Wallmeyer to Paul Yaroschak.

## **Update of Air Force Tier III**

In the Air Force, each state has its own Tier II team made up of representatives from each installation, Federal and State agencies, MAJCOMs, and contractors. The Tier III team is made up of Airstaff, MAJCOM, and others.

Sid and Joe made a presentation to the Tier III team explaining the Navy's procedure. Vision and Outreach committee is considering joint services partnering, and they asked Joe to be on the committee.

Our Tier II team is more like the Air Force Tier III. Joint services cooperation at this level may only happen via semiannual meetings to compare philosophy and strategy.

## **Institutional Controls**

Pensacola Tier I team sent a letter requesting assistance from Tier II. These are for active installations only, not BRAC. This would be putting institutional controls, such as deed restrictions, on property so that less stringent cleanup levels could be used in completing cleanups and NFAs. A law on the books prohibits DOD and the Federal Government from doing this

without Congressional approval on a case-by-case basis. NAVFAC Headquarters/DOD (at ASN level) are aware of the issue and are working on it. Tier II will prepare guidance for Tier I teams on how to proceed with working toward RODs.

**Action Item**

*J. Speakman and R. May to provide K. Dreyer, J. McCauley, J. Wallmeyer data on our issues where institutional controls could be a cheaper alternative to an ROD without institutional controls.*

**State-Specific Tier II Implementation Plan**

Proposed Navy-Marine Corps Membership of Future Tier II (State-Specific) and Tier III Teams					
	Florida Tier II	South Carolina Tier II	North Carolina Tier II	Kentucky Tier II	Tier III
SDIV	✓	✓		✓	✓
LANTDIV			✓		✓
USEPA	✓	✓	✓	✓	✓
THAT State	✓	✓	✓	✓	All States
Marine REC		✓	✓		✓
Navy REC	✓	As Needed		As Needed	✓
Installation				✓	
ABB-ES	✓	✓			
Baker			✓		
BEI	✓	✓			
B&R	✓	✓	✓	✓	
E/A&H	✓	✓			
MK				✓	
OHM			✓		
Galileo	*	*		*	*
Management Edge			*		*

Note: \* = as facilitator only.

**ISSUES:**

- Tier I, II, and III makeup
- Contractors on or off Tier II
- Should this be Joint Services at Tier II level?

As agreed at the last meeting, the structure of Tier I teams will not change.

N. Kumar will try to get ERMA invited to the Air Force Tier III meeting in Atlanta on

September 16 and 17. Representatives from SDIV and REC (Navy and MC) will be attending.

**Action Item**

*Rich May will get fact sheet about new Tier II organizations for Tier II validation at conference call on July 18.*

**Action Item**

*Links - Carry the concept of State-Specific Tier IIs (joint services for South Carolina) to the Tier I teams*

**Action Items**

*Set up first meeting by state: invite participants as per the above matrix; attach names to the matrix by the next Tier II conference call.*

*Florida: Joe McCauley/Eric Nuzie to establish Tier II meeting (this is a single service Tier II).*

*South Carolina: Jon Johnston join in the Air Force Vision and Outreach phone call to put forward the concept of joint services Tier II for South Carolina.*

*North Carolina: George Radford to establish Tier II meeting (this is a single service Tier II).*

*Kentucky: Pat Franklin to establish Tier II meeting (this is a single service Tier II).*

**Team Building Skills Assessment**

This item is deferred to the Tier II State-Specific teams.

Orlando Team has already done the skills assessment and liked it. We will use the skills assessment to guide the customized training plans for teams.

**Graduation Requirements**

These should be deferred and/or devolved to the State Tier II level.

**Action Item**

*Jerry, Pat, Paul T., and Debbie to form a subcommittee to meet and identify the core criteria, and change or validate the existing criteria. They will present their findings to Tier II (existing) at the September meeting. They will also eventually present their findings to Tier III at an appropriate time. "Core Competency" contains components for which training could be tailored and should be considered by Tier III.*

**Public Relations****Action Item**

*Rich May will get success stories done. Format Cecil Field, get Camp Lejeune from K. Dreyer by July 11 for inclusion into Success Stories (white copies only) and provide to Joe and Jerry for their meeting July 23.*

**Venues for Public Relations**

- "Encompass" newsletter
- CNO Phyllis Kirchner
- SDIV Web page
- RPM newsletter
- "Southerner" magazine
- Military Engineer
- "Brown Builder"
- "Forefront" USEPA newsletter
- DHEC newsletter

**Conference Call Agenda**

The next conference call will be **Thursday, July 18 at 10:30 am, EST.**

- Follow up on Action Items from this meeting.
- Input from nonattendees on restructuring.
- Matrix of State Tier II members.
- Assure new Tier II members are identified and validate the list.
- Update of vision and outreach conference call
- Validation of June 26 and 27 meeting minutes

**August Conference Call**

The August conference call will take place on August 20 at 10:00 am, EST.

**Next Tier II Meeting**

Scheduled for September 18 and 19 in Atlanta (Buckhead). The meeting will end at 1500 hours on September 19, 1996. Ensafe is responsible for getting the meeting facilities. Jerry Wallmeyer will be team leader.

ERMA TIER II

CHARLESTON

JUNE 26 1996

NAME	ORG.	<u>FAX</u> NUMBER
RICH MAY	ABB-ES	904-877-0742
NARINDAR KUMAR	EPA Region 4	<del>404/347/3558</del> <del>264/46</del>
Joe Mc Guley	South Div	803/820-7465
Sid Allison	South Div	803/820-7465
JERRY ARCARO	GALILEO	603-885-2330
PAT FRANKLIN	SOUTH DIV	803-820-5563
Jim Linton	South Div	(803) 820-4002
BILL FULLER	COMNAVBASE JAX	904-772- <del>2</del> 2414
DAVID ROMSTAN	GALILEO	414-695-5004
PAUL TOMCZEK	BECHTEL	423-220-2748
JIM SPEAKMAN	E/A/H	(901) 372-7962
Debbie Wroblewski	BERE	712-921-6550
GEORGE RADFORD	MCCAS CHERRY Pt.	919-466-2000
Bob Warren	Marine Corps Region IV Component REC	910-451-1143
KELLY DREYER	USMC HQ	703-696-1020

**DRAFT**  
**FEDERAL FACILITIES BRANCH -- DOD REMEDIAL TEAM FACILITY/SITE ASSIGNMENTS**  
**AS OF June 20, 1996**

RPM	CERCLA/NPL Sites	RCRA Sites
Jim Barksdale	(1) Army, Redstone Arsenal, AL (2) NASA Marshall Space Flight Center, AL	(1) Charleston AF Base, SC (2) Naval Weapons Station, Charleston, SC
Jay Bassett	(1) MC Air Station, Cherry Point, NC	(1) Cape Canaveral, AF Station, FL (2) Patrick AF Base, FL (3) NASA Kennedy Space Center, FL (4) Seymour Johnson AF Base, NC
Craig Benedikt	(1) Naval Air Station, Whiting Field, FL	(1) Eglin AF Base, FL (2) Hurlburt AF Base, FL (3) Naval Coastal Systems Station, FL PRE REMEDIAL SUPPORT
Martha Berry	(1) Naval Air Station, Jacksonville, FL	(1) Army Waterways Experiment Station, MS (2) Naval Station Mayport, FL (3) NAS Key West, FL (4) McDill AFB, FL
Peter Dao	(1) Milan Army Ammunition Plant, TN (2) Tyndall AF Base, FL	(1) Lexington Blue Grass-Richmond, KY (2) FT Campbell, TN
Allison Humphris	(1) MC Recruit Depot, Parris Island, SC	(1) MC Air Station Beaufort, SC RISK ASSESSMENT SUPPORT & WAM
Olga Perry	(1) Anniston Army Depot, AL	(1) FT Rucker, AL (2) Arnold Engineering & Development Center, TN (3) FT Jackson, SC
Rob Pope	(1) MC Logistics Base, Albany, GA (2) Shaw AF Base, SC 106 order	(1) Keesler AF Base, MS (2) FT Bragg, NC (3) Holston AAP, TN (RCRA)
Gena Townsend	(1) MC Base, Camp Lejeune, NC (2) NAS Pensacola, FL	(1) FT Knox, KY PRE-REMEDIAL/DOCKET LEAD
Liz Wilde	(1) Robins AF Base, GA	(1) TVA Muscle Shoals, AL (2) TVA/NASA Yellow Creek, MS (3) TVA National Research & Development Center, AL

*WHO MANAGES CONTRACTS FOR TVA ENV. AGENCY*

**NOTES:**

ppfca Facility anticipated to be issued HSWA permit during calander year 96

US Coast Guard Facility, Elizaabeth City, NC is off active list since under State permit -- Rob will answer questions as arise

*Handed off By  
N. KUMAR 6/26/96*



**NAS PENSACOLA TIER 1 PARTNERING TEAM**

**"TEAMING UP FOR A BETTER ENVIRONMENT"**

May 22, 1996

To: Tier II

From: N.A.S. Pensacola Tier I Partnering Team

RE: Implementation of Institutional Controls

*John Stubbins*  
*Alison Daxen*  
*Kenn S. Atchley*  
*Bill Gates*  
*Ann Caldwell*  
*W. Beiro*  
*Bill Hill*

The problem for the team is how to implement institutional controls (i.e., assuring a site remains industrial; restrictions on groundwater use; etc.) at Installation Restoration Program (IRP) sites. The team initially thought this could be implemented through the Base Management Plan (BMP). However, the state does not accept this as the sole approach because the BMP is not a legally enforceable document, and can be amended by the facility commander. The state believes a deed restriction or Consent Agreement (CA) should be included on a site property when institutional controls are part of a Record of Decision (ROD) or a Site Characterization Report (SCR). However, the Navy believes a deed restriction or CA is not necessary for a site portion of the Navy owned base. The state requires some form of legally binding method that will keep institutional controls in force so the base can be held liable if it fails to maintain the institutional controls established in a ROD or SCR. This would not be as great a problem if NAS Pensacola were closing and the property being transferred to non-federal owners, as deeds would be established for the property. This issue exists at other non-closing federal facilities in Florida, and the team believes it cannot be resolved at the Tier I level.

The team would like to present the following suggestions which might assist in resolving this issue.

1. One option mentioned previously was placing the institutional controls in the BMP.
2. Another option, also previously mentioned, would be a recorded Deed Restriction on a specific site property requiring the institutional controls (e.g., Operable Unit 10 must remain industrial).
3. A Consent Agreement or Consent Order between the facility and the state was another possibility and it would give the state legal recourse.

**Tier II Memorandum  
Tier 1 NAS Pensacola  
May 22, 1996  
Page 2**

4. The enforceability section of the Federal Facilities Agreement (FFA) may allow for enforcement of the institutional controls. However, if the FFA makes it enforceable, it is only enforceable as long as the FFA is in effect. If the Navy were to transfer the property to another federal agency (i.e., Army, Air Force; DOI; etc.) the FFA would no longer be valid.
5. If a RCRA permit is in effect at the site, could the required corrective action be enforceable through the permit?
6. Another alternative we discussed used identification of institutional controls in the BMP along with a requirement for an annual compliance letter and required notification requesting a land use change. This would be defined in the ROD or the SCR.
7. A last alternative is shown in the enclosed attachment "Procedure for Restrictive Provisions" which is a draft proposal from the USCOE for the USAF. It would be possible to modify it to meet the organization of the Navy.

All RODs which include institutional controls are on hold until the issue is settled.

# ENVIRONMENTAL RESTORATION MANAGEMENT ALLIANCE

Region IV

7 June 1996

*U.S. Environmental  
Protection Agency,  
Region IV*

*Region Environmental  
Coordinator  
Naval Base Jacksonville*

*U.S. Marine Corps*

*Southern Division, Naval  
Facilities Engineering  
Command*

*Atlantic Division, Naval  
Facilities Engineering  
Command*

*Florida Department of  
Environmental Protection*

*Kentucky Department of  
Natural Resources*

*North Carolina  
Department of  
Environment, Health, and  
Natural Resources*

*South Carolina  
Department of Health and  
Environmental Control*

*ABB Environmental  
Services, Inc.*

*Bechtel Environmental,  
Inc.*

*Brown & Root  
Environmental*

*Ensafe/Allen & Hoshall,  
a joint venture*

**Office of the Assistant Secretary of the Navy  
(Installations and Environment)  
Mr. Paul Yaroschak, Director  
Environmental Compliance and Restoration Policy  
1000 Navy Pentagon, Rm. 4A686  
Washington, DC 20350-1000**

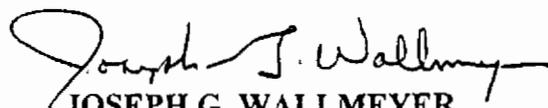
**Dear Mr. Yaroschak:**

**At the Region 4 Environmental Restoration Management Alliance (ERMA) meetings in Pensacola on 28 March, you challenged the Tier II team to address two issues to improve our lot in life at both ends of the spectrum, namely individual motivation and public/congressional awareness.**

**In response to your questions, the Tier II team brainstormed a list of options to address each of these issues. The list is attached. In deference to our brainstorming ground rules, we have left intact all suggestions generated, even though some of the responses are similar/duplicative and some appear to be beyond our capability to implement (e.g., lobbying, political action committees, etc.). Hopefully these unedited ideas will let you appreciate the diversity of the Tier II team and the range of suggestions which came from your challenges.**

**Please call us if you have any questions. We look forward to any suggestions/feedback you may provide on our efforts. Thanks in advance for any help you can offer.**

Respectfully,

  
**JOSEPH G. WALLMEYER**  
for ERMA

**Encl:**

**(1) Region 4 Tier II Responses to questions posed by Mr. Paul Yaroschak at the Pensacola FL Meetings held March 28-29, 1996**



**REGION 4 TIER II RESPONSES TO QUESTIONS POSED BY MR. PAUL YAROSCHAK AT THE PENSACOLA FL MEETINGS HELD MARCH 28-29, 1996:**

**QUESTION 1: What incentives can be put into place to have individuals motivated to do it cheaper-faster-better?**

- **Employment security**
- **Support and encourage facilitated partnering DOD wide**
- **Require savings at one facility to be utilized at that facility**
- **Utilize a value-based measurement system to prioritize future funding**
- **Reduce the review process through a more proactive (Tier I) system**
- **Allow team bonuses**
- **Offer recognition and reward**
- **Stabilize DERA salary support and DSMOA funding**
- **Publicize our successes**
- **Make available funding incentives from NAVFAC**
- **Team commendations**
- **Seeing improvements used elsewhere**
- **Benchmarking**
- **Professional advancement**
- **Allow/assign higher level taskings**
- **Provide adequate facilities**
- **Advanced training opportunities**

**QUESTION 2: As part of our communications effort, how can we raise public/congressional awareness on budget decisions?**

- **Talk to RAB members where available**
- **States can send letters to congressional representatives**
- **Offer to provide sub-committee testimonials**
- **Send ERMA letters to all Tier II agencies identifying impacts of budget cuts**
- **Develop a formal outreach program**
- **Celebrate our failures [i.e., enforcement]**
- **Have states express concerns through ASTSWMO**
- **PAC support**
- **Arrange congressional visits to sites**
- **Present impact analyses of budget decisions**
- **Present briefings to congressional members**
- **Encourage contractor association presentations**

PT AGENDA

**Naval Base Charleston  
Environmental Cleanup Project Team  
Meeting Agenda  
July 2, 1996  
9:30 AM to Until Complete  
Naval Reserve Readiness Center**

Leader - Doyle Brittain  
Scribe - Bobby Dearhart

- 9:30 - 9:40 Introduction ✓
- 9:40 - 10:10 | Revise Agenda ✓  
| Prioritize Agenda ✓  
| Define objectives of Meeting ✓
- 10:10 - 10:40 Review Minutes and Action Items from June 11<sup>th</sup> Meeting ✓
- 10:40 - 10:50 Break ✓
- 10:50 - 11:00 Schedule Conference Call for July
- 11:00 - 12:00 Zone K Point Paper Discussion ✓
- 12:00 - 12:15 Lunch (Break / Working Lunch) *STATE NOT READY TO DISCUSS*
- ~~12:45 - 1:15~~ Zone E Comments and Discussion *GOES PROBE RESULTS ZONE A*
- 1:15 - 2:15 Pre-RAB Presentation Preparation  
General Discussion (30 minutes)  
Chicora Tank Farm (30 minutes)
- 2:15 - 2:30 Break
- 2:30 - 3:45 Interim Measures:  
Define Objectives (15 minutes)  
How to Expedite Process (30 minutes)  
Presentation of New Candidate Sites (30 minutes)
- 3:45 - 4:05 Base Condition of Property Map - *TERRY HUNT*
- 4:05 - 4:15 Break
- 4:15 - 4:45 Project Status Presentation for RAB -
- 4:45 - 5:15 Next Meeting  
Date, Time, Place and Leader  
Set Agenda  
Review Action Items and Parking Lot
- 5:15 - 5:45 Close-out and Wrap-up *DOD/EPA IG AUDIT  
FIRST TRUCK CLEANUP*



?

August 30, 1996

NAVAL BASE CHARLESTON  
PROJECT TEAM

From: Bobby Dearhart

Subj: JULY PT MEETING MINUTES

Encl: Naval Base Charleston Cleanup Project Team Meeting Minutes for  
July 2, 1996

1. Enclosed are the final minutes from the July 2, 1996, PT meeting. The comments from the August 13 & 14, 1996, PT meeting and those provided in the August 26, 1996, conference call have been incorporated as best as could.

BOBBY DEARHART  
SCRIBE 

Distribution:

Dave Backus

Paul Bergstrand

Doyle Brittain

Bo Camp

Daryle Fontenot

Todd Haverkost

Tony Hunt

Hayes Patterson

Ann Ragan

Brian Stockmaster

Johnny Tapia

Paul Tomiczek

Kevin Tunstall

Cecile Lacey

Joe McCauley

PT MINUTES

**Naval Base Charleston Cleanup Project Team  
Meeting Minutes  
July 2, 1996**

---

List of attendees is attached.

The PT ground rules were read. A copy of the ground rules is attached.

Agenda Additions:

- Joe • Restructuring of Tier II
- Todd • Summary of Geoprobe sampling handout for Zone A
- Cecile • Workload priority status
- Doyle • DoD IG audit
  - Risk Assessment training
  - Presumptive remedies for landfills
  - Fast Track cleanup
- Bobby • BCT roles and responsibilities
  - FY97 budget
  - 60% Zone E review
  - UXO presentation to RAB
  - Project Team size and composition
  - Team building exercise

Meeting Objective:

Cecile explained that the Objective of the meeting should be established to ensure all PT members understand what is expected to be accomplished with each item on the agenda. By having a clear objective, the meeting discussions and decisions can keep on track towards the necessary outcome.

June PT Meeting Minutes:

Bobby stated that he wanted to have PT consensus on the minutes prior to final issue. It was agreed to postpone final review and consensus of the June minutes until the end of the meeting. *[Comments were provided and copies of the minutes mailed to each PT member.]*

Action Items from June PT Meeting:

Status of the action items listed in the June PT meeting minutes were provided as follows:

ACTIONS FROM JUNE PT MEETING	STATUS
1. Provide details of Chicora Tank Farm closure to Harold Seabrook at SCDHEC.	Tony has not presented information to Harold Seabrook on the Chicora Tank Farm. He would like to discuss this with the regulators and obtain PT consensus whether or not the details need to be provided to Seabrook.
2. Review Project Status Sheet and provide ECDs where applicable.	Project Status Sheet will be discussed as an agenda item.
3. Provide Statement of Work for radiological surveys of DRMO.	Statement of Work for the DRMO radiological survey has been prepared and is awaiting final SOUTHDIV signature. <i>Action for Hayes with ECD of 7/3/96.</i>
4. Notify BTC (Jim Moore) that he is the person that the community should talk to concerning Chicora Tank Farm.	Daryle not present to provide update. <i>Item remains open.</i>
5. Provide information to RAB on ways to become involved in process.	Daryle not present to provide update. <i>Item remains open.</i>
6. Begin implementing RAB involvement suggestions.	Daryle not present to provide update. <i>Action continuing.</i>
7. Review 60% Zone E Progress Report and provide comments to Daryle.	Tony stated that Daryle had only received comments from EPA. He requested a new date for the PT to provide input to the Zone E 60% Progress Report. Kevin questioned why the PT needed to provide consensus on this. Todd stated that the 60% Report discussed second round sampling and reduction of analysis. <i>PT has action to complete the review with an ECD of 7/19/96. [In subsequent discussions of the Zone E 60% Progress Report, Johnny stated that the State was in agreement with EPA's review comments and that no additional review was required.]</i>
8. Request extension from SCDHEC on UXO work plan submittal date.	Brain has submitted a draft letter for the UXO work plan date to the CSO for signature. He had not heard if the letter had been signed out and sent. Bo followed-up during the break with CSO. Action complete.
9. Discuss with EOSD what a "due diligence" search for UXO is considered.	Brian did not consider this as a specific action item. EOSD is the expert and will provide input to what is considered "Due Diligence". <i>Action is transferred to Kevin</i>

	<i>to coordinate this.</i> This will be further discussed during the EOSD discussion.
10. Present UXO issues to RAB.	No action required by Brian. Action deleted until PT determines proper time to present to RAB.
11. Provide candidate sites for RCRA to UST program with input for RCRA permit mod.	Kevin has provided input to SOUTHDIV for candidate RCRA sites to UST program <b><i>SOUTHDIV action to forward to DHEC.</i></b>
12. Develop recommendation on presenting environmental program status to update condition of property map.	Navy and Ensafe held meeting on June 20 to develop a plan of action for a presentation on changing the colors of the Environmental Condition of Property Map. This is discussed later in the minutes. Action complete.
13. Discuss PT decision of how to present Chicora Tank Farm issue to RAB and community with SOUTHDIV XO.	Brian discussed with the XO at SOUTHDIV that it was a PT decision on how to present the Chicora Tank Farm issue to the RAB. Action complete.

July Conference Call:

The following reasons were given supporting a July conference call:

- Discussion of 60% Zone E Project Status Report
- Provides a mid-point review
- Allows for quick decisions to be made

Bobby reiterated the general rules previously established for conference calls:

- no longer than 1 hour
- stay away from making decisions
- should provide updates and information

*It was decided later in the meeting that a July conference call was not needed.*

Zone K Work Plan Discussion:

Tony provided a presentation and overheads on the Data Quality Objectives (DQO) process with the objective to demonstrate application of the process to the PT in the Zone K RFI in hopes of accomplishing the investigation in an expeditious and cost effective manner. The DQO process developed by EPA provides a systematic approach that clarifies objectives, defines the appropriate type of data required, and specifies the tolerable levels of potential decision errors that will be used for establishing the quality and quantity of data needed to make decisions. The process provides planning actions oriented towards data collection to balance the uncertainties when little

is known about a site. The decisions made support specifications for developing sampling and analysis plans.

Kevin asked if this process was being used elsewhere? Tony responded that EPA uses it at DOE sites. It fits the RCRA and CERCLA accelerated action process.

The DQO process:

- ◆ encourages thoughtful consideration about why data are needed and how data will be used in making decisions
- ◆ structures the discussion of project personnel, regulators and stakeholders
- ◆ leads to development of S&A and QA plans

The DQO process helps by:

- ◆ focusing data requirements and optimizing the design of data collection
- ◆ facilitating rapid review and approval by regulators and other stakeholders

There are seven steps in the DQO process:

1. State the problem to be resolved.
2. Identify the decision.
3. Identify the inputs to the decision.
4. Define the study boundaries.
5. Develop a decision rule.
6. Specify limits on decision errors.
7. Develop and optimize the design for obtaining data.

Kevin asked if the DQO process was used to better define sampling and how does this tie into “judgemental sampling”? Tony stated that judgemental sampling was part of the strategy that is used in the current investigation to determine the presence or absence of a contaminant. Once the presence is established, a sampling strategy can be developed using the DQO process to define what decisions need to be made at the site.

Kevin asked how many zones could this possibly be used? Tony replied that we only have the sampling and analysis plan left to develop for Zone K, however the process is an iterative one which can be used during the data interpretation of other sites in the zones. For instance, in the Tech Memo we reviewed on Zone E we see BEQs and arsenic in samples from almost every site. Ensafe is reviewing the grid sample data to determine the frequency of these contaminants as well. By knowing that these contaminants are ubiquitous across the site we do not spend unnecessary resources trying to define their nature and extent at each site.

In demonstrating the logic of the DQO process in terms of what to expect in the groundwater contamination at Clouter Island, Tony showed how the major concern would be from the dredge material disposal instead of the release from the Naval Ammunition Depot which was operated over fifty years ago. Tony suggested that soil be assessed first to determine if a release had occurred by detection of any residual contamination and determine whether groundwater requires sampling based on these results. Paul pointed out that process drains could be a source of

contamination that could impact groundwater as well. Tony agreed and pointed out that this was part of the DQO process, identifying the problem and developing the conceptual model of the site from which a sampling strategy can be developed.

Tony stated that he would like to use the DQO process for Zone K investigation and asked for input from the PT members.

Kevin stated that it seemed the process focused on sampling specifics and not on the wide spread problems.

Paul stated that a few samples would provide the information. He was concerned that a problem could not logically be eliminated based on the lack of information available. He is not comfortable with the process.

Bobby was concerned that a new process was being implemented too late in the investigation and that it would delay the overall RFI process. Particularly concerned on how this delay would effect the DET for getting this work soon.

Doyle was not sure what is meant by "uncertainties". Tony stated that we will never be totally certain of what the distribution and concentration of site contaminants are because we cannot sample the entire site. The uncertainty is reduced by increasing the number of samples however cost then becomes a consideration.

Doyle asked what is meant by data of "no consequence". Tony replied that we have collected a large number of samples, especially in Zone C, where we have analyzed for contaminants that were not site related. A significant number of these contaminants are non-detect. The information is of no consequence since it was not suspected to be there and was not found either.

Doyle basically agrees with the concept, but is also concerned that it is late in the process. This should have been implemented during the Comprehensive WP development. This new approach may not agree with the approved process in the Comprehensive WP and the permit which requires sampling to Appendix 8. The permit only applies to initial sampling after which the analytical can be reduced since the permit has no say so on this. He was concerned that lack of information by using the DQO process may cause things to be missed.

Doyle also stated that not only human health risks need to be looked at but also the ecological risk.

Doyle stated that reuse would be particularly important at the Navy Annex in making sampling decisions since this could be used as a playground or recreational area.

Tony stated that the advantages with the DQO process are that it can:

- determine the type, quality and quantity of environmental data needed to make the identified decision
- reduce the number and types of samples
- help locate samples
- help identify the quality of samples

Kevin asked if it would delay getting started with the Zone K investigation? Tony stated that it could delay the start but that it could shorten the overall process. Todd stated that he was not sure if this process would really gain much for us.

Tony asked if the PT wanted to use the DQO process to focus the investigation of Zone K? The PT did not give consensus so the issue of using the DQO process is dead.

The PT was asked if training on the DQO process would be beneficial for possible use on other zones. The PT did not give consensus therefore the DQO process will not be used on other zones.

Paul made an observation that determining what the PT was voting on was somewhat confusing. He suggested that on critical decisions/votes that the question should be put on the board/flip pad to ensure all members of the PT understand what decision is being made. This has been added to the PT process list (attached).

### Tier II Conclusion on Two Initiatives

Joe McCauley stated that Tier II had undertaken two initiatives that Tier I will have interest:

- 1) Should Tier II be spread to other states? There are concerns that too much time is wasted by states on issues that don't affect them.
- 2) Should a Joint Services Group be established at the Tier II level?

Conclusions:

- 1) Tier II would be established at each individual state with only that state involved. This will reduce the time spent on non-applicable issues.
- 2) Will work towards a Joint Services Group on the state level. This will reduce but consolidate resources.

This will have no affect on Tier I.

Tier II will be affected by the Joint Services Group approach:

- State                      EPA                      Air Force                      Navy                      Army as guest  
(applicable state)
- Policies and issues will be focused on specific state concerns.
- The Joint Services Group will enhance communication with management within agencies

This will create a Tier III group which will look like the present Tier II.

Question was raised about contractor participation. Contractors will have a role in Tier II, but will not be included in Tier III.

### Doyle Issues

- ♣ Risk Assessment Training Course - a registration form was passed out.  
Course will be held September 17 - 20, 1996 in Atlanta.

- ♣ Doyle passed out an Interim Guidance - Presumptive Remedies for Landfills
- ♣ EPA and DoD IGs have been conducting audits at Federal facilities. Two concerns:
  - ♣ Concerned over what data controls are in place at laboratories
  - ♣ Concerned that no standard procedures exist for data review

Doyle stated that EPA is comfortable with our process and that it poses no problems.

Todd emphasized that a 3<sup>rd</sup> party review is validating ≈ 100% of all data generated.

### Zone E 60% Progress Report

The State decided that since EPA had already provided comments on the Zone E 60% Progress Report, the EPA review/comments were satisfactory. No additional actions are required.

### Pre-RAB Presentation

Doyle stated that due to the East Coast BCT conference there would be several EPA officials present at the RAB meeting.

- ♣ Community Relations - Todd will have additional news letters. Bobby discussed meeting with the Grass Roots Conversion Coalition on 7/1. The Coalition is concerned over the Chicora Tank Farm plan of action as well as the possibility that the DET will not be able to get the work due to the Competitive Bid process.

- ♣ Shipyard Detachment -

Bobby requested that this be removed from the RAB agenda if the community sub-committee was not going to make the report. Paul recommended placing the sub-committee chairperson's name on the agenda. **PT provided consensus on placing the community sub-committee chairperson's name adjacent to the respective agenda item.**

Doyle recommended that posters be provided to show what has been accomplished. This is especially important for this RAB since we will have out of towners visiting. Kevin stated that the DET has been doing this at the past RAB meetings and would ensure they are available for the upcoming RAB.

Bobby stated that he had met with Arthur Pinckney of the Grass Roots Conversion Coalition concerning the Priority Placement Program (PPP). Arthur seemed satisfied with what was discussed.

- ♣ Environmental Cleanup Progress Report - Tony provided an update on RFI Zone H, C, I, and B RFI reports. He also stated that maps with risk base contours will be available for Zone H.

The status of the Zone D, F and G, and J workplans was provided as well as the status of on going field work in Zones A and E. Kevin will provide an update to Tony on the quarterly GW monitoring that the DET is accomplishing.

Joe McCauley stated that Tony should be prepared to answer the question of When? on reports and workplans that have not been completed.

♣ Tony stated that the Community Relations committee had been asked about an appearance on a talk show to get the community more involved. It was agreed that the co-chairs should be the RAB representatives on the show.

♣ Chicora Tank Farm - Kevin asked who represented the official Navy response on issues such as the CTF? The suggestion was made that Daryle, Capt. Augustin and Cdr Dalby all speak officially for the Navy.

Two questions have high potential for being asked:

- 1) What will be the level of demolition?
- 2) Why competitive bidding and not the DET?

Cecile reiterated that the PT must stick to the same answer to prevent the perception of not being sure of the PT answer.

**Brian will be responsible for briefing the political issues dealing with the CTF property issue and competitive bidding with Capt Augustin by 7/3.**

Johnny stated that there was a meeting at DHEC to discuss possible solutions at CTF. Bobby brought up the issue that Ann was not in agreement that demolition and leaving debris in place was a problem if the correct permit issues were addressed. It was agreed that the details of the CTF should be discussed with Seabrook. **Tony has action to provide.**

It was agreed that the PT would meet at 5:00 PM on 7/9 for an update of CTF. *[Later in the meeting it was agreed to forego the pre-RAB meeting since team members would be meeting on 7/8 for a scoping meeting. If needed the CTF update could be discussed.]*

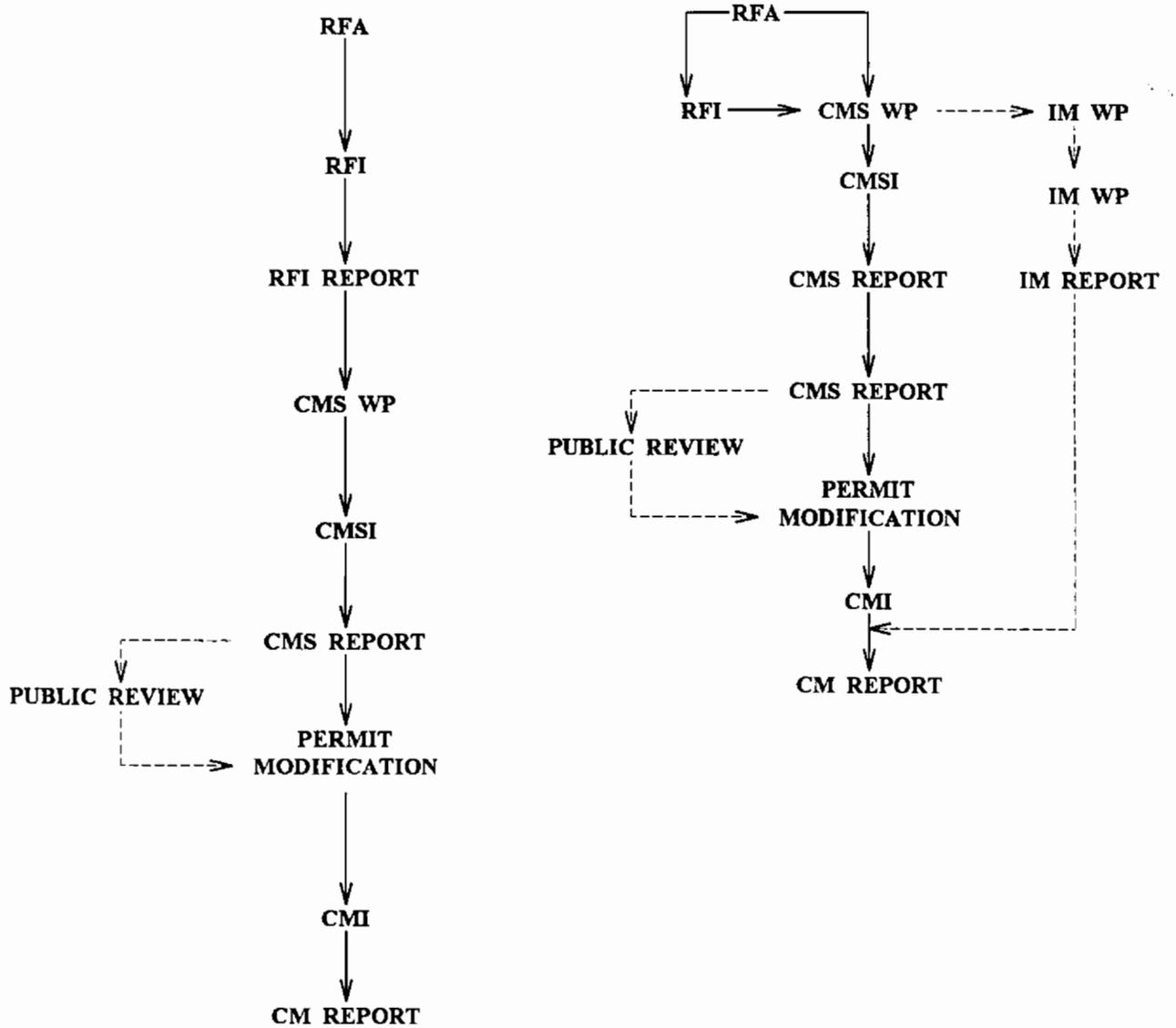
#### Business as Usual or Fast Track?

Doyle presented his ideas on ways to Fast Track environmental investigation and cleanup. In some people's views, we are slipping to the old way of doing business - not Fast Track. This is not the way things are being done at other bases.

See attached sketch (next page) showing Business as Usual vs Fast Track.

In Fast Tracking we should do the CMS in parallel with the RFI. During the June PT meeting a big step was taken in setting the minimum level for IMs at  $10^{-4}$  risk. The IM should be

## BUSINESS AS USUAL OR FAST TRACK



accomplished in parallel with the RFI and CMS. Public input would be obtained by selling the RAB up front to accept some agreed upon cleanup level. After the IM is completed, the IM Final Report would feed right into the CM Report as a final cleanup. Doyle considers that if a Fast Track approach is utilized for cleanup, that up to 80% of the Base could be transferable within 3 - 5 years. This approach does not violate any of the RCRA permit requirements.

The following questions were posed to the PT:

1. What are the obstacles to our doing Fast Track investigation and cleanup?
2. What can we do differently to speed up the process?
3. Do we want to:
  - a. Have a 1 - 2 day meeting in an out of the way place to work through the process?
  - b. Discuss this in lieu of a PT meeting?
  - c. Forget it and continue on as we are doing now?

Doyle suggested picking one of the dirtiest sites on base and walking through the process as a pilot. This would allow problems to be realized prior to moving into the full process. One of the worst sites on the Base is SWMU 25 (the old plating shop, Building 44). This is a perfect example of a site that could go to final cleanup. SWMU could be presented to the RAB and full buy-in obtained.

Paul stated that he supported this concept and has seen it work at Myrtle Beach AFB. It has provided savings of up to one year in project time resulting in  $\approx$  \$1M savings. Paul requested that this be put on Parking Lot for later discussion.

Bobby stated that a scoping meeting was being planned for SWMU 25. The DET wants to scope it the week of July 1<sup>st</sup> or July 8<sup>th</sup>.

### Tier II Concerns

Joe McCauley provided input from the last Tier II meeting report. A recommendation and consideration was made by the facilitator to the Tier II group and requested how these should be addressed to the Tier I team.

1. Size and composition of the PT - Joe stated that the Charleston team was the largest of all Tier I teams. Most teams have 6 - 8 members, maximum 10. This was considered the most that a team could obtain consensus.

2. The Charleston PT sometimes uses voting vice consensus even though we call it consensus. This was seen during Tony's presentation of the Zone K use of DQO process. During consensus, Tony still disagreed and considered that it could still be used as a model. This was not consensus, but majority rule.

Cecile stated that we need to "affirm" to at least get a "can live with" during consensus testing. By not getting full consensus, conflict could develop within the team. Doyle stated that this was good clarification and should be considered. Bobby stated that though this was a good example it was not the norm. Most of the time if someone disagrees (thumb down) then it was discussed to

at least get a “can live with”. Bobby did agree that for true consensus a thumb down could not be by-passed.

Tony stated that as far as the Zone K DQO presentation that he had considered all of the discussion and decided he “could live with it” as previously tested.

The issue of PT size and composition remains. Need to decide who are the stakeholders and make the team more dynamic. Doyle suggested that Cecile provide input to the process and help identify ways to streamline the PT with the goal of establishing the criterion for a true team member.

Joe stated that a normal PT was made up of a Core Team including:

- Navy RPM
- Station RPM (for Charleston does not exist)
- State RPM
- EPA RPM
- Contractors (both CLEAN and RAC)
- BEC
- Detachment (in the case of Charleston)

It was agreed that the PT composition and size would be put on the Parking Lot for later discussion.

### Interim Measures (IM)

Doyle asked what is the objective/what are we looking for in accomplishing IMs. He suggested that a process be established on what an IM is needed to do and how can these be “Fast Tracked”. This was put on Parking Lot to address what the objective of an IM is and how can they be expedited.

Candidate IMs - Brian provided a handout for AOCs 707 and 708.

♣ AOC 707 - Kevin asked if this site should be under the UST program vs the RCRA program? Tony stated that it had been proposed to the State to put in the UST program, but their response was to keep under RCRA. Addendum III to Volume V of the RFA recommended that this site be an IM with sampling to remove the soil contamination. **PT consensus provided to include AOC 707 as an IM.**

Kevin identified that there are some questions on what type of sampling should be used for a petroleum contaminated RCRA site. For USTs, Tim Mettlin stated that they stay away from sampling for TPH and use the RBCA levels as a cleanup goal. TPH is not used as an indicator. At RCRA sites TPH is used. Johnny and Paul agreed that BTEX and Napthalyene should be used as the goal. Paul wants to review the RBCA limits also. It was agreed that the discussion over whether sampling for TPH or BTEX/Napthalyene should be the goal would be resolved at the

scoping meeting. Paul questioned if PCBs are involved? The determination of what constituents to sample for will be resolved at the scoping meeting. **PT consensus provided to include AOC 708 as an IM.**

♣ AOC 655 (Base Exchange oil spill) - This site was previously accepted as a candidate IM site. Based on the Ensafe RGO, a  $10^{-5}$  risk assessment resulted. Brian questioned if this site should be dropped as an IM? Todd stated that this site has been recommended to go into CMS because it is less than  $10^{-4}$  but greater than  $10^{-6}$ . This will be a risk management decision. **PT consensus provided to delete AOC 655 from the IM list.**

Paul suggested that IM scoping should be a regular item on the PT agenda. There could be a follow-up meeting  $\approx$  2 weeks after the PT meeting as a follow-up. The next scoping meeting is scheduled on Monday, 8 July, at 1400 in Building 30 at the Naval Base. The scoping should include SWMU 25, AOC 707 and AOC 708.

Paul also suggested that we meet that evening somewhere for dinner. All interested will get together, relax and reflect on the better things in life.

### Environmental Condition of Property Maps

There was a meeting at Ensafe on June 20<sup>th</sup> to discuss the approach necessary to demonstrate the supporting information to change the colors on the Environmental Condition of Property Map. At the June PT meeting consensus was obtained to be able to change the colors to yellow or red, but to change above these colors required regulator agreement.

At the Ensafe meeting it was agreed to develop individual maps for each environmental program. A combined map would then be provided showing the worst condition of property for any of the environmental programs. After a RFI Report shows an area with no additional actions required and other environmental program concerns are addressed, the property will be moved to blue or green with regulator agreement for property transfer.

### Zone A Geoprobe Report

Todd presented a Geoprobe technical memorandum on Zone A. The memorandum shows an area on the north end of the Base adjacent to DRMO where significant levels of TCE and DCE were found. The memorandum recommends additional shallow wells to identify the extent of the plume migration.

Doyle questioned if any migration was approaching any residential areas? Todd stated that it stopped well before Noisette Creek. Bobby stated that there was an apartment complex just on the other side of the boundary fence which had a large number of children.

Tony asked about the depth of the Geoprobe borings? Todd showed on page 4 of the memorandum that the depth was between 7 and 9 feet.

Paul asked what was the target date to request permission to install the new shallow wells? Todd stated that well installation approval would be to the State by the end of the week (5 July). The request would be for six shallow 15 feet deep wells and one deep 45 feet deep well. This could affect the completion of the RFI report for August.

Paul was concerned over GP05, GP08, and GP09 where hot spots were encountered and GW seems to be flowing west. He was concerned if sampling would be required off-base. The wells are on the property boundaries. Doyle stated that EPA is very concerned with vinyl chloride in children. If the plume is moving towards a neighborhood then it needs to be rediscussed. We need to determine the vertical and horizontal extent of the plume. If we end up sampling off-base we need to:

- ♣ Work on community relations and the communities perception.
- ♣ Strategy - ask property owners permission. State and EPA have legal authority to install wells on private property.

Also TCE moves readily through clay layers.

Paul asked if Geoprobe mobilization was feasible? Dave stated that we need to install wells on the base boundaries and use Geoprobe off-base. The analytical will be expedited. Doyle stated that no off-base sampling should occur until after it was discussed with the PT. Paul stated that the District well representative needs 48 hour advanced notice. Paul stated that we need to check for private wells in the area. A drive through should be accomplished to see if there is any evidence of wells. **Todd has the lead to accomplish the drive through by 7/19.**

Tony asked what should be stated at the RAB since it had been stated at the June RAB meeting that we would be accomplishing the sampling? Doyle does see a problem with discussing what is being found on the Base with the RAB, but does not want to speculate with what might have migrated off-base. Paul concerned that some people will draw some conclusions and start asking questions about flow and what has been done to show the direction.

**PT consensus that if asked about off-base, the response should be "We do not know at this time. If it moves off-base, the Navy will clean it up."**

#### Naval Base Project Status

An updated Project Status report was distributed by Tony.

**Tony and Todd have action to update the Comprehensive WP by 7/12.**

It was suggested that after an action is complete it should be dropped from the Project Status report.

IDW disposal discussion -

- 1) RCRA hazardous - ship as hazardous waste
- 2) Non-RCRA - special State regulated
- 3) Non-hazardous/non-toxic - should be able to be used on Base.

The present procedure for all non-hazardous IDW is sent off site for burning.

**Tony has action to determine the requirements for IDW disposal and update at the July conference call.**

Kevin discussed his conversation with Harold Seabrook of DHEC concerning non-hazardous contaminated IDW. Basically, anything other than burying in a lined land fill would require a letter to Seabrook for approval.

Paul stated that Tim Mettlin was no longer associated with the UST program. Paul Bristol (former midlands district hydrogeologist) was taking Tim's place. Paul would cover the Naval Base, Weapons Station and Marine Corp Air Station.

It was agreed that the Project Status report would be presented to the RAB at the July meeting.

#### BRAC East Coast Conference

Doyle stated that Mare Island was giving a tour for the West coast conference and wanted to know if the PT was doing anything special for the east coast conference. Tony stated that Jim Berotti had requested that the risk maps that Ensafé was preparing be presented. Tony asked if the PT was comfortable with this presentation to the conference. With no concerns noted, Tony will have an abstract and presentation ready for the Monday, July 8<sup>th</sup> scoping meeting.

#### July/August Conference Call

**PT action to provide input to Paul on Doyle's request on Fast track by 19 July.**

It was agreed that a July/August conference call was not necessary.

#### Next PT Meeting

August 12<sup>th</sup>, 0930 - 1330      IM scoping meeting at building 30 on Naval Base

August 13<sup>th</sup>, 0800              NRRC (tentative)  
Leader - Daryle  
Scribe - Bobby

- Agenda:
- Standard items
  - BCT roles and responsibilities
  - Environmental Condition of Property Map

- PT size and composition
- Team building exercise - Conflict Resolution
- Zone A update
- Academia proposals
- IDW update
- MBTI

### Cecile's Meeting Review

Cecile asked the PT to provide input to what we considered “worked” and what we considered “needs improvement”:

WORKED	NEEDS IMPROVEMENT
→ Increased productivity	→ Acting on presented materials
→ Stayed on track	→ Started late and ended late
→ Fixed discrepancy with voting	→ Lacking preparation for meeting (ie review of materials)
→ Agenda written on board and crossed off as accomplished	→ Duration of meeting
→ Focused	→ Need minutes earlier
→ Discussed pertinent issues	
→ Did not disagree as much	
→ Worked better together as a team	
→ Building trust	
→ Increased flexibility	
→ Had fun!	

Brian asked if the way the minutes were presented reflected the way the meeting went? Bobby stated that the minutes reflected how the meeting went with the exception where items were totally disconnected. Brian stated that the PT needs to tie the discussions together.

Cecile made the following recommendations for agenda format:

- Develop a template
- Allow realistic times
- Identify topics
- State objectives
- Identify the presenter
- Identify if item is for “consensus”/”decision”/”information”

Cecile acknowledged the following accomplishments:

- ♥ Accepted two sites as IM candidates

- ♥ Proactive in discussing better ways to accomplish Fast Track
- ♥ Established regular schedule for scoping meetings
- ♥ Obtained consensus on action items

Cecile made the following suggestions:

- ♣ Laminate the Ground Rules for each team member
- ♣ Preps for RAB - people who sit on the RAB and the PT should attend the PT meetings
- ♣ Team building:
  - Formulating mission and vision (where is the team going and how will it get there)
  - Roles and responsibilities of team members
  - Team composition (Cecile will walk through and help, but the team must establish who brings value to the team)
  - Conflict resolution training (one hour at next meeting)

**Naval Base Charleston Project Team Meeting  
July 2, 1996**

**Attendance Sheet**

<u>NAME</u>	<u>ORGANIZATION</u>	<u>PHONE</u>	<u>FAX</u>
Tony Hunt	SOUTHDIV	(803) 820-5525	(803) 820-5563
Bo Camp	CSO	(803) 743-9985	(803) 743-9947
Hayes Patterson	SOUTHDIV	(803) 820-5658	(803) 820-5563
Brian Stockmaster	SOUTHDIV	(803) 820-7481	(803) 820-5563
Johnny Tapia	SCDHEC	(803) 896-4179	(803) 896-4002
Todd Haverkost	E/A&H	(803) 884-0029	(803) 856-0107
Dave Backus	E/A&H	(901) 372-7962	(901) 372-2454
Kevin Tunstall	DETHASN	(803) 743-6777	(803) 743-9413
Bobby Dearhart	DETHASN	(803) 743-2821	(803) 743-0174
Doyle Brittain	USEPA	(404) 347-3555 ext 2061	(404) 347-1735
Paul Bergstrand	SCDHEC	(803) 896-4016	(803) 896-4002
Paul Tomiczek (Bobby Dearhart proxy)			
Daryle Fontenot (Tony Hunt proxy)			
Cecile Lacey	Galileo (facilitator)	(401) 762-2391	(401) 762-2133
Joe McCauley	SOUTHDIV (Tier II link)	(803) 820-5500	(803) 820-7465
Gabe Magwood	SOUTHDIV	(803) 820-7307	(803) 820-5563

### Action Items From July 2 PT Meeting

ACTION	ECD	ASSIGNED TO
1. Provide details of Chicora Tank Farm closure to Harold Seabrook at SCDHEC.	7/19/96	Tony
2. Provide Statement of Work for radiological surveys of DRMO.	7/3/96	Hayes
3. Notify BTC (Jim Moore/Tom Fressilli) that he is the person that the community should talk to concerning Chicora Tank Farm.	8/13/96	Daryle
4. Provide information to RAB on ways to become involved in process.	8/13/96	Daryle
5. Begin implementing RAB involvement suggestions.	8/13/96	Daryle
6. Coordinate with EOSD what a "due diligence" search for UXO is considered.	9/10/96	Kevin
7. Determine when UXO issues should be presented to RAB.	TBD	Project Team
8. Provide candidate sites for RCRA to UST program to DHEC.	TBD	Brian
9. Brief SOUTHDIV XO on potential controversial issues dealing with CTF property and competitive bidding.	7/3/96	Brian
10. Drive through areas adjacent to north end of Base to determine evidence of private GW wells.	7/19/96	Todd
11. Provide updates of the Comprehensive RFI WP revisions to PT members.	7/12/96	Tony/Todd
12. Determine requirements for IDW (non-hazardous and special) disposal.	8/13/96	Tony
13. Provide input on Fast Track questions to Paul.	7/19/96	Project Team

## **NAVAL BASE CHARLESTON PROJECT TEAM**

### **GROUND RULES**

- Be professional
- Maintain open/honest communications
- Focus on goals
- Respect other's positions
- Resolve team conflicts as they occur
- Bring skills, expertise and resources to the team
- Be flexible
- Avoid surprises
- Be proactive and innovative
- Meetings will start and end on time including breaks and lunch
- Decision by consensus with time to affirm
- Project Team issues will be brought to the table and dealt with as a team
- Have fun
- No side conversations
- Team members communicate directly with each other as needed
- Team members will come to meetings prepared

# NAVAL BASE CHARLESTON PROJECT TEAM

## PROCESS LIST

### Agenda items:

- develop a template
- identify topics
- identify the presenter
- identified if item is for “consensus” / “decision” / “information”
- state objectives / goals
- number all items
- provide before meetings
- estimate realistic times including breaks

### Following are standard agenda items:

- Introduction
- Revise Agenda
- Prioritize Agenda
- Define Objectives of Meeting
- Review Minutes and Action Items from Previous Meeting
- Schedule Conference Call for Month
- Pre-RAB Presentation Preparation
- Post RAB Meeting Critique (if meeting continues after RAB)
- Next Meeting
  - Date, Time, Place and Leader
  - Set Agenda
  - Review Action Items and Parking Lot
- Close-out and Wrap-up
- Schedule IM Scoping Meeting with Follow-up Approximately Two Weeks Later

Handouts/documents for discussion/decisions should be provided before the meeting.

Maintain project status.

Announce/introduce all visitors.

Maintain minutes with list of action items, decisions, parking lot, etc.

Changing meeting dates and times requires group consensus.

Membership/attendance/votes will accept proxy or alternate.

Critical items for decisions / consensus should be put on the board/flip pad to ensure all members of the PT understand what decision is being made.

# PT AGENDA

*DRAFT*  
**Naval Base Charleston  
 Environmental Cleanup Project Team  
 Meeting Agenda  
 August 12, 13 & 14, 1996**

Leader - Daryle Fontenot  
 Scribe - Bobby Dcarhart

August 12, 1996	Building 30, Naval Base Charleston	
0930 - 1200	Interim Measures Scoping Meeting	Kevin Tunstall
August 13, 1996	Naval Reserve Readiness Center	
8:00 - 8:15	Introduction	Daryle Fontenot
	Revise Agenda	
8:15 - 9:00	Prioritize Agenda	Daryle Fontenot
	Define Objectives of Meeting	
9:00 - 9:30	Review Minutes and Action Items from July 2 <sup>nd</sup> Meeting	Daryle Fontenot
9:30 - 9:45	Schedule Conference Call for August	Daryle Fontenot
9:45 - 10:00	Break	
10:00 - 12:00	Pre-RAB Presentation Preparation	Daryle Fontenot
12:00 - 1:00	Lunch	
1:00 - 2:00	Project Status Review for RAB	Tony Hunt
2:00 - 2:45	Base Condition of Property Map	Daryle Fontenot
2:45	Adjourn for day	
August 14, 1996	Naval Reserve Readiness Center	
8:00 - 8:30	Post RAB Meeting Critique	Daryle Fontenot
8:30 - 9:30	Conflict Resolution Exercise	Cecile Lacey
9:30 - 9:45	Break	
9:45 - 11:00	Fast Track Cleanup	Paul Bergstrand
11:00 - 12:00	FY 97 Budget	Tony Hunt
12:00 - 1:00	Lunch	
1:00 - 1:30	Project Team Size and Composition	Cecile Lacey
1:30 - 1:45	Soil vitrification	Tony Hunt
1:45 - 2:30	Zone A Update	Todd Haverkost
2:30 - 2:45	Break	
2:45 - 3:30	Investigative Derived Waste	Tony Hunt
3:30 - 4:00	Next Meeting	Daryle Fontenot
	Date, Time, Place and Leader	
	Set Agenda	
	Review Action Items and Parking Lot	
4:00 - 4:30	Close-out and Wrap-up	Cecile Lacey

The following items were also listed for agenda:

Academia Proposal  
 BCT Roles and Responsibilities  
 MBTI

*DRAFT*

**Naval Base Charleston  
Environmental Cleanup Project Team  
Meeting Agenda  
August 13 & 14, 1996**

Leader - Daryle Fontenot  
Scribe - Bobby Dearhart

<i>August 13, 1996</i>		<i>* Palmetto Conference Center @ Charleston Air Force Base</i>	
8:00 - 8:15	Introduction		Daryle Fontenot
	Revise Agenda		
8:15 - 9:00	Prioritize Agenda		Daryle Fontenot
	Define Objectives of Meeting		
9:00 - 9:30	Review Minutes and Action Items from July 2 <sup>nd</sup> Meeting		Daryle Fontenot
9:30 - 9:45	Schedule Conference Call for August		Daryle Fontenot
9:45 - 10:00	Break		
10:00 - 12:00	Pre-RAB Presentation Preparation		Daryle Fontenot
12:00 - 1:00	Lunch		
1:00 - 2:00	Project Status Review for RAB		Tony Hunt
2:00 - 2:45	Base Condition of Property Map		Daryle Fontenot
2:45	Adjourn for day		
<i>August 14, 1996</i>		<i>* Palmetto Conference Center @ Charleston Air Force Base</i>	
8:00 - 8:30	Post RAB Meeting Critique		Daryle Fontenot
8:30 - 9:30	Conflict Resolution Exercise		Cecile Lacey
9:30 - 9:45	Break		
9:45 - 11:00	Fast Track Cleanup		Paul Bergstrand
11:00 - 12:00	FY 97 Budget		Tony Hunt
12:00 - 1:00	Lunch		
1:00 - 2:00	Project Team Size and Composition		Cecile Lacey
2:00 - 2:30	Soil Vitrification		Tony Hunt
2:30 - 3:00	Zone A Update		Todd Haverkost
3:00 - 3:15	Break		
3:15 - 3:45	Investigative Derived Waste		Tony Hunt
3:45 - 4:00	Next Meeting		Daryle Fontenot
	Date, Time, Place and Leader		
	Set Agenda		
	Review Action Items and Parking Lot		
4:00 - 4:30	Close-out and Wrap-up		Cecile Lacey

*\* The PT meeting will be in the Sandpiper Room at the Palmetto Conference Center (Former Community Center) at the Charleston Air Force Base.*

**Naval Base Charleston  
Environmental Cleanup Project Team  
Interim Measures Scoping Meeting  
August 12, 1996**

August 12, 1996      0930 - 1200      Building 30, Naval Base Charleston

**Interim Measures**

Kevin Tunstall

9:30 - 10:30    SWMU 25    (Bldg 44 Old Plating Shop)  
10:30 - 11:30    SWMU 13    (Fire Fighting Training Area)  
11:30 - 12:00    AOC 699    (Storm Drains)

Adjourn at 12:00 for lunch and RDA meeting. If possible after RDA meeting continue Interim Measures Scoping Meeting to include:

SWMU 7      (Old Public Works Corral)  
AOC 574      (Bldg 9 Fuel tank)  
AOC 707      (Diesel Fuel Spill Bldg 1795)  
AOC 708      (Petroleum Release Between Bldg NS-668 and Bldg NS-669)

PT MINUTES

October 7, 1996

NAVAL BASE CHARLESTON  
PROJECT TEAM

From: Bobby Dearhart

Subj: AUGUST PT MEETING MINUTES

Encl: Naval Base Charleston Cleanup Project Team Meeting Minutes for  
August 13 and 14, 1996

1. Enclosed are the final minutes from the August 13<sup>th</sup> and 14<sup>th</sup>, 1996, PT meeting.

BOBBY DEARHART  
SCRIBE

Distribution:

Dave Backus

Paul Bergstrand

Doyle Brittain

Bo Camp

Daryle Fontenot

Todd Haverkost

Tony Hunt

Hayes Patterson

Ann Ragan

Brian Stockmaster

Johnny Tapia

Paul Tomiczek

Kevin Tunstall

Cecile Lacey

Joe McCauley

**Naval Base Charleston Project Team  
Meeting Minutes  
August 13 & 14, 1996**

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List of attendees is attached.

Daryle opened the meeting by making the announcement that next meeting will be at the Naval Reserve Center, site of the last two meetings.

Daryle then read the ground rules.

It was noted that Bobby was not present, Tony was substituting as scribe. Cecile noted that Todd and Dave Backus were not present.

Cecile made the following announcements:

- Donna Kopeski, who is in training with Galileo, and Dr. Lee Wille will replace Cecile for the next meeting. Cecile will return in October.
- MBTI tests are available for anyone that wants to take the tests. Either complete them while Cecile is here, mail to Cecile or give to Donna. Cecile will provide training in what the types mean in October.
- For long term planning purposes the skills assessment survey was provided for everyone to complete and return as soon as possible.

Revise Agenda

- PT size and composition discussion was moved from Day 2 to Day 1 to accommodate schedule conflicts.
- Added a discussion on the team's mission statement
- Discussion on the attendance of RDA members
- Interim Measures.

The agenda was then revised and prioritized to include these additions.

It was noted that we will have visitors for the Fast Track and Soil Vitrification discussions.

Meeting Objectives

No feedback was obtained from any of the PT members on the draft agenda nor were any objectives provided. Everyone agreed that it is the responsibility of the team to provide objectives where applicable in order to allow everyone to adequately prepare for the meeting.

Review of Draft July Project Team Minutes

Tony provided changes to the DQO discussions. Additional comments made on the minutes were:

- Action items need to be included (previous month) along with what action was taken.
- Pg. 7, second club, the PT did not make the decision that Daryle, Capt. Augustin and Cdr Dalby would speak but rather that this would be suggested.
- Several errors were noted on flow chart on page 9.
- Personal references were agreed to be unnecessary.
- Pg. 11, no mention was made of the use of TPH versus individual constituent analysis.
- Comment was made that the minutes are good however we may be losing the effectiveness of the meeting due to posturing and some reservation in expressing our thoughts.
- Comment was made that less of he said, she said because this is difficult to follow. A summary of issues and discussion and what decisions were made as a result is sufficient.

No other comments were noted, if further discussion was necessary it was agreed that Bobby should be present. *Consensus test was taken on whether we would like to see corrections included in the minutes prior to approval. Consensus passed.*

Action Items from August PT Meeting

ACTION	STATUS
1. Provide details of Chicora Tank Farm closure to Harold Seabrook at SCDHEC.	Tony rereported complete.
2. Provide Statement of Work for radiological surveys of DRMO.	Tony reported SOW complete.
3. Notify BTC (Jim Moore/Tom Fressilli) that he is the person that the community should talk to concerning Chicora Tank Farm.	Complete. Bo asked if Tom is aware of it?
4. Provide information to RAB on ways to become involved in process.	Complete. Daryle stated that this was to be done at the August and subsequent RAB meetings.
5. Begin implementing RAB involvement suggestions.	Complete. This is being done concurrently with action item #4.
6. Coordinate with EOSD what a "due diligence" search for UXO is considered.	In progress. ECD 9/10. Maintain as open action item.
7. Determine when UXO issues should be presented to RAB.	This is yet to be determined. Suggestion was made to delete this as an action item. Team agreed.
8. Provide candidate sites for RCRA to UST program to DHEC.	Complete.
9. Brief SOUTHDIV XO on potential controversial issues dealing with CTF property and competitive bidding.	Complete.
10. Drive through areas adjacent to north end of Base to determine evidence of private GW wells.	Complete. Todd mentioned that no wells were found. Additional information is provided in the Zone A update.
11. Provide updates of the Comprehensive RFI WP revisions to PT members.	Complete. Tony stated that this had been done. Revisions 01 and 02 had been

	combined into one revision and the additional comments made by the State had been addressed and included.
12. Determine requirements for IDW (non-hazardous and special) disposal.	Complete.
13. Provide input on Fast Track questions to Paul.	Complete. Only two responses were received. <i>[Decided later in the meeting that this should be revisited and comments provided to Paul by 8/30.]</i>

Conference Call Schedule

Call was scheduled for 8/26 at 1:00. **Daryle has action to set up and provide access numbers.**

Pre RAB Presentation

Daryle announced that Jim Moore and Susan Floyd will no longer be members of the RAB.

- Environmental Progress Report

Chicora Tank Farm. Ann volunteered to give the presentation. Important points to include in the presentation were discussed and are as follows:

- (1) EPA, State and Navy are working together to address community concerns.
- (2) Meeting was held to discuss options, regulatory stumbling blocks and what further information or action was needed.
- (3) Solicit input from the community representation.

***Consensus test was taken on agreement that State will present. Consensus passed.***

- Status of Environmental Programs

This is first time presenting this status sheet so some explanation is needed. Acronym list will be attached. RFI status to be presented by Tony, IM status by Brian. Final GRAM and NNPP reports are now in Information Repository in the library. Several other items were noted during review of the status sheet:

- Project Status sheets will be provided at least one week in advance to Project Team members to allow for adequate preparation.
- Several reviews are upcoming at the end of the month therefore additional meeting time is needed. Decision was made to meet in Aiken on 9/3 at 0900 to discuss the following: Zone A RFI report presubmittal review

Zone K RFI work plan Response to Comments

Zone J RFI work plan Response to Comments

**Action to review documents for discussion at the 9/3 meeting. Action: Project Team RCD 9/3**

- RAB Roles & Responsibilities

Overheads to be presented. It was suggested that the RAB be asked how much interaction are they having with the groups they represent. Also suggested was that time be provided for the RAB to voice their concerns, similarly to what was done at some meetings in the past. It was

agreed that it is more effective if each individual has the opportunity to provide input. We are partially at fault for the RAB not being active participants in the process.

- Talk show appearance

The taping is 8/26, to be aired on 9/1 on TV 2 with Nina Sosserman. Diane Cutler (Community Relations Specialist) with Ensafe is preparing posters. Fact sheets have been given to the station. **Action to provide possible questions that may come up to help Daryle prepare. Action: Project Team RCD 8/19**

### Zone A Update

The potential for offsite migration of contaminants is a concern here based on the preliminary sampling done by Ensafe. It was agreed that we need to present what we know about this area to the RAB in the following manner:

- Review what sampling was underway in this area (GW screening)
- Discuss what was found
- Provide a map that provides an idea of the extent of the problem
- Assure them that if migration offsite is a possibility, sampling will occur offsite as well.

*Consensus test taken on presentation of Zone A information to the RAB. Consensus test passed.*

### Project Team Composition

Handouts were provided on Expectations of the Project Team and Tier I---Core Project Team Members.

Cecile began this discussion. Tier II has a concern over the size and representation of several of the Tier I teams, this one included. It was clarified that size reduction is not being dictated to the team however it is an issue that should be looked at and addressed by the PT. Some of the key concerns:

- On average the teams should be 6 to 8 people
- Team members should be those that add value to the process, are prepared to take risks, and stand by decisions made.

Cecile showed several overheads including Expectations of the PT and the Core PT members. The team currently has 14 members. It was suggested that we develop a problem statement. In order to do this the team first agreed to determine what problems existed. These issues are listed as follows:

- Empowerment; not being accomplished
- Change in membership is disruptive
- Group membership is beginning to work together
- Is there a need for all members to vote (i.e. agency representation)
- Topics being reopened for discussion and long discussion on topics
- No problem with number of members
- Unaware of value to the team
- First step is for each agency to look at its representation

- Level of expertise and type of expertise
- Need to balance decision makers with value added individuals
- Individual agency review needed
- Focus on where we are today in terms of membership
- Difficult due to size, i.e. length of discussion
- Need to clarify processes
- Voting as a consensus not a problem
- Membership may fluctuate
- Members come and vote on an “as needed” basis (ad hoc)
- Team direction and actual accomplishments
- Need to take reasonable risks

Cecile proposed that we develop a list of roles and responsibilities and include in our mission/vision statement. These are required for recognition by Tier II in addition to the conflict resolution model.

Joe McCauley addressed the question concerning the directive from Tier II. The size and composition of all Tier I teams is being reviewed. From experience, the larger a team is the more difficult it is to manage and build team consensus. Tier II feels that there should be a core membership of 5 individuals that are fundamental to the team, others can be ad hoc or matrixed. Tier II is asking that our team do a review and consider that small is good and that the most effective teams have 6 to 8 members.

Ann Ragan asked if the BCT still exists and how does Tier II view the PT. The State chose representation on the BCT based on the request at the time which required something different than an RPM can provide.

Joe mentioned that the PT should contain the appropriate level of expertise to make decisions recognizing that engineers (RPMs) are not empowered to commit funds or allocate resources. This, in addition to resolution of policy issues, was the responsibility of the BCT.

There were still some questions about the BCT/PT relating to whether this issue had really been resolved previously. This is an example of topics which are being reopened on issues where supposedly consensus had been reached. Everyone needs to understand what was decided or else the issue needs to be reopened and a decision reached.

Finally a question was raised on whether it is the issues that we are addressing that is causing conflict or the membership. The question then would be who needs to be involved in the decision.

***Consensus test was taken to request everyone to go back to their individual agencies and determine what the representation of the agency should be. The team will discuss the team membership afterwards. Consensus test passed.***

**Action to review membership of PT and what each member brings to the meeting.**  
**Action: Project Team RCD 9/10.**

### Conflict Resolution

Cecile lead the PT through a Conflict Resolution exercise. A handout was provided along with the viewing of a video. Some basic points include:

There are three basic forms of conflict:

(1) **Goals Conflicts**

- Parties have incompatible goals.
  - Each party's goals threaten goals of the other.
- Resolution: Reconcile the ambitions of the parties.

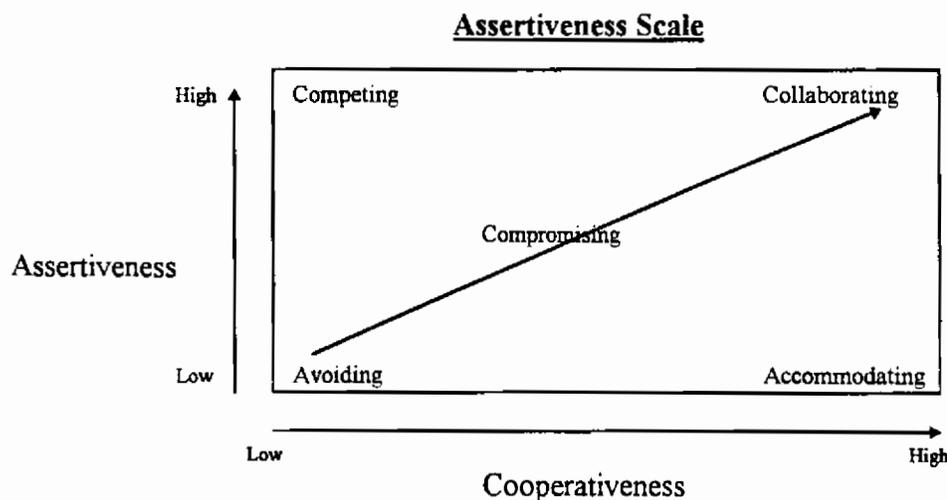
(2) **Judgment Conflicts**

- Parties differ over factual or empirical issues.
  - Parties agree on the goal but not on how to attain it.
- Resolution: Combine information and insights to form a conclusion that meets the needs of both parties.

(3) **Normative Conflicts**

- One party evaluates the other on the basis of how he/she should behave.
  - Plays to our notion of justice, equity and values.
  - Triggers emotional reactions of blame and anger.
- Resolution: May require an apology from the violating party.

Goals Conflicts and Judgmental Conflicts can be handled in a team type atmosphere. Normative Conflicts are not team issues and should be resolved outside of the team.



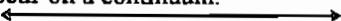
- ◆ **Avoiding** - Nothing is happening
- ◆ **Accommodating** - “Fine - do it” may work short term. Satisfy other person at expense of own.
- ◆ **Competing** - This is the way is s got to be.  
No consideration of other person’s concerns.  
Own concerns - nobody else’s
- ◆ **Compromising** - Balance - all concerns not satisfied.
- ◆ **Collaborating** - BEST - Both sides agree on the problem.  
There is cooperation to listen to the other side.  
All facts are presented by both sides.  
Satisfies concerns of both parties.

The video demonstrated that conflict not only effects those involved, but also everyone around the parties. Avoiding creates anger and frustration. Accommodation satisfies others concerns but not one own.

*Remember, when in conflict there are always choices.*

Concerns with Interim Measures

Bobby stated concerns over three interim measures that were submitted to the State for comment and approval which were returned disapproved. This lead to an in-depth discussion resulting in a recommendation by Cecile that the concerns of the State, the Navy and the Detachment be listed.

State	Navy	Detachment
<ul style="list-style-type: none"> <li>• Communication break down</li> <li>• Progress seen</li> <li>• New at CNB with sites</li> <li>• Believes it was said to look harder at sites in question</li> <li>• IMs: new process for everyone - not like RCRA</li> <li>• IMs intended as final action</li> <li>• Needs to look at workplans/ draft workplans</li> <li>• Not a “start over” issue</li> <li>• Has to look at IMs as final attempt to clean</li> <li>• IMs are a range of problems: occur on a continuum.</li> </ul> <div style="text-align: center;">  </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">Well known problem</div> <div style="text-align: center;">Unknown/undefined problem chronic release</div> </div> <ul style="list-style-type: none"> <li>• Some problems are more difficult and not defined - ie source of lead , where do we look</li> </ul>	<ul style="list-style-type: none"> <li>• Team decided on IMs - surprised when submitted workplans required more information</li> <li>• Do not need to go ahead at all cost</li> <li>• Valid concerns</li> </ul>	<ul style="list-style-type: none"> <li>• Shocked over comments received</li> <li>• Question “What is Fast Track?”</li> <li>• State should not make determination if IM is worked</li> <li>• Wasting time. energy and money</li> <li>• This issue is a problem</li> <li>• 3 IMs passed by PT as candidates</li> <li>• Scoped</li> <li>• Understood that WPs were to be done</li> <li>• Comments stated not enough information to move ahead</li> <li>• Comments changed direction of IMs</li> <li>• BCT has fallen through</li> <li>• Funding not received as anticipated for fast track</li> <li>• No empowerment</li> <li>• Sit as a team and make decisions - walk away and decisions are changed</li> </ul>

- Long term problem?
- Concerned with attempt to clean undefined problems
- Is the IM going to move the base forward
- IMs may not be appropriate at all times
- The WP was a draft
- Had time to review
- Detachment does a great job
- Base cleanup should be done in most efficient manner
- WPs have to reflect the "Big Picture"
- Cannot make clear judgment if all information is not included
- Additional problems not explained/described
- Have to be cautious when establishing cleanup levels
- Do we clean to industrial level only or do we try to clean to residential. State has always held to cleaning to residential

- Are we moving forward to clean up the base?
- Going in reverse
- Feels that State is concerned on being questioned if cleanup levels are stated in IM and are changed in CMS
- CMS may show that the IM hasn't taken it far enough
- When IM reaches cleanup level specified, IM should be completed
- Once the RFI report is complete, senseless to do IM
- Cleanup levels have been addressed to State for a long time
- Concerned that NB will be used for industrial now, but could change in future
- FOSL says "like use"
- IM - remove the source
- Not a State concern if IM is good or not.
- Team determines via scoping meetings
- Thought that when scoping meeting concluded IM was good to go
- WP should not stop the IM
- Can take a back set and let BCT decide what needs to be done and then implement
- Need definition of IMs
- Confused
- Do we need more work up front?
  
- Is a WP necessary?
- Are IMs considered to be outside of purpose of the Detachment?

Each team member was asked to develop problem statements based on the above inputs and group them into major categories. The groupings on the following page resulted.

Doyle discussed Robert Ryan's (RDA staff) questions on how clean is the Navy going to clean the Base. A letter was written to the State with copies to EPA and Navy BEC. The RDA questioned leaving contamination under asphalt paved areas and concrete slabs. Who will be responsible to clean it up in the future if the asphalt and/or concrete slab is removed? How can land be developed with contamination present? Doyle relayed to the RDA that the State says cleanup to residential, but RDA is concerned that the Navy is going to cleanup to a level less than residential.

## TEAM CONCERNS/PROBLEM STATEMENTS ON IMs

### Clarification and definition on IMs is needed

State needs clearer picture of affected area in order to approve IMs.

Detachment spends time, money and energy under the assumption that State understands and will approve IMs. 150 people that need to be gainfully employed.

How hard do we try to make IM work the FINAL work?

Are we considering all aspects of our IMs to be able to reach a final action without the fear/liability of not being able to do additional CMI work as we may find out needs to be done at a later date?

We are trying to accomplish the cleanup of the Base utilizing the SY Detachment as much as possible, however the vehicle to do this, Interim Measures, are no longer clearly defined and are difficult to identify because the RFI progress is slow.

### Team lacks unified goals and objectives

Who is navigating the "cleanup boat"?

Too many "cooks" in the kitchen.

We do not all share the same goal.

The Detachment's need for work is rushing the process.

Transitioning not yet resolved:  
Navy - gone New paradigm  
Political: Lost jobs and taxes  
Who is next in line  
EPA/DHEC: Rules are changing

Objectives - What are they?  
Team overall: Cleanup the base?  
Fast Track: What is it?  
IMs?

Need to identify projects that can be worked immediately by the Detachment (or RAC) without extensive regulatory or administrative delays.

When we make a decision, stick to it and go forward. Identify the risks, benefits, and consequences when making the decision. (Might want to consider using the DQO process).

Decision to implement IM is not made at the detailed scoping meeting.

The team collectively has yet to identify the inputs needed to expedite the process. This may involve calculated risk taking.

### Clarification and definition of Fast Track is needed

Neither "Fast Track" or "Interim Measures" are adequately defined.

The Fast Track process includes the IM process. The problem is that Fast Track needs to be defined and within that context decide what an IM action should include, always focusing on the final cleanup of the Base.

We need to show and demonstrate Fast Track cleanup while taking into account and addressing agency concerns.  
-What is Navy's latitude for voluntary cleanup?  
- Don't confuse IMs as final, but a vehicle to achieve final goal.  
- We need to defuse the hammer conflict (that is you said this earlier but now you changed)

Do we want to use IMs as a means to Fast Track cleanup at Naval Base Charleston?

The processes to implement "Fast Track" or "Interim Measures" are not adequately defined.

**Action to place on the agenda to progress with the problem statement on what's wrong (work into vision/mission statement). Team has action to review issues on IMs and Fast Track. RCD: 9/10.**

### Review of Remaining Agenda Items

Environmental Condition of Property - Doyle concerned that not enough information is available to more better than red/yellow. Daryle will present proposed updated map at September meeting.

Fast Track Cleanup - Paul has additional questions to be presented.

Vision and Mission Statement - to be delayed until the September PT meeting.

Question was posed on what needs to be done with the three IMs in question? Kevin had a more fundamental question - Can some sites be handled as process closures vice IMs (ie Bldg 44 and Bldg 9 cleanups)? Johnny asked if Bldg 44 was a SWMU. Doyle clarified that the building was not the SWMU. Johnny still needs to know if Bldg 25 is included in the SWMU 25. The RCRA permit requires notification to the State if any portion of the SWMU will be disturbed.

***Consensus was reached that SWMU 25 (Bldg 44) would be handled by a letter to the State. Cleaning of Bldg 9 inside would be handled as a process closure without an IM.***

**DHEC/Navy/Detachment have action to meet in Columbia at DHEC to discuss actions necessary for IMs on SWMUs 38, 42, and 109. RCD: 8/19.**

### Fast Track Cleanup

Paul provided an organization chart for the Bureau of Solid and Hazardous Waste Management at DHEC and asked that it be included in the minutes. A copy is attached.

Paul stated that he had only received two inputs to the July PT request on input to Fast Track. He asked for input on the previous questions as well as input to the following:

- 1) Define Fast Track as it relates to each person - not as defined in the Purple Book.
  - A. As pertains to investigation.
  - B. As it pertains to cleanup.
- 2) Provide an example of each (as it is actually happening or how you would like to see it). Provide input as a process with time frames or a flowchart with a time line.
- 3) Provide what Fast Track is NOT.

**Action to provide input on Paul's questions above and also on Doyle's questions pertaining to Fast Track. Action: Project Team RCD: 8/30.**

### Project Team Size and Composition

Daryle presented Joe McCauley's recommendations as shown below:

#### Tier II Link Vision Of Naval Base Charleston Project Team

Organization	Member	Discussion
Ensafe	Todd Dave	Only one person from CLEAN is necessary
DHEC	Ann Johnny Paul	Tier I is not a policy making team. Ann is a member of Tier II.
BEC	Daryle	
SOUTHDIV RPM	Tony Brian	
SOUTHDIV	Hayes Bo Gabe	Don't meet definition of Tier I team members
Detachment	Bobby Kevin	Looks at Detachment as a contractor only requiring a single representative.
EPA	Doyle	
Bechtel	Paul	No work presently going on.

Shaded names represent Tier II strawman for PT.

Joe explained his listing based on the Tier II criteria and presented for information only. This is a recommendation that the PT must review.

Johnny asked if this was a Tier II directive. Joe answered that it was not.

The size and composition of the PT will be on the September agenda for a decision. **Action to review and be prepared to present agency input on PT membership. Action: Project Team RCD 9/10.**

### Zone A Update

Todd showed a map of Zone A and the new well installations for SWMU 39. Samples have been taken but only analyzed for volatile. Screening samples west of Bldg 1604 showed  $\approx 500$  ppb and wells adjacent to 1604 showed  $\approx 2200$  ppb. Anticipates that the TCE plume is moving west towards base boundary and the marsh.

Paul stated that the samples were from shallow wells. Chlorinated solvents tend to sink which would lend to looking deeper at the next phase.

Todd presented a draft profile of the well installations. Paul asked what is next? Additional samples will be taken at existing wells as well as looking into information from the deep well at Bldg 1604. Paul provided the following suggestions:

- Questions:    1) Human health?  
                  2) Property owners?  
                  3) Hess problem?
- Next steps:    Maps of known plume  
                          XC  
                          shallow  
                          deep  
                          DP  
                  Deep wells on base  
                  Shallow/deep wells off base  
                  Anticipate Press questions

Paul asked who was taking the lead for the off-base investigation? The Navy has the lead. Doyle asked that nothing be done off-base until discussed with the State and EPA. Based on what is known there is no imminent threat to human health. Progress will continue to be tracked and discussed at the PT meetings.

#### Vitrification of Contaminated Soil from Naval Base Charleston

Representatives from AJT Enterprises and Clemson University made a presentation for a soil vitrification project. Team members included:

Gerald Addison	AJT Enterprises, Inc.
Gerald Teaster	AJT Enterprises, Inc.
Brian Jackson	AJT Enterprises, Inc.
Ronnie Talley	Hunter, Maclean, Exley & Dunn, PC (Lawyer)
Dr. Denis Brosnan	Director of Center for Ceramic Engineering, Clemson University
Robert Mussro	Facilities Manager, Ceramic Engineering Center, Clemson University

Mr. Addison (former shipyard worker) had contacted Clemson to discuss a demonstration of the soil vitrification using 5 tons of Naval Base contaminated soils and turning it into glass. This provides two advantages:

1. Reduces size of pile of dirt
2. Totally relieves owners liability

This is incineration and therefore not a waste treatment facility, but is a vitrification process that is a recycling facility:

incineration	←————→	waste treatment
vitrification	←————→	recycling

A handout was provided explaining the process with the following overview:

- Creation of a "Peer Review Committee" of eminent scientists and engineers.

- Bench scale preparation.
- Two soil samples - five tons each.
- Vitrification of soils at DOE's Albany Research Center
- Characterization of product and process
- Final report.

This is being funded through a DOE grant. Ultimate goal would be to vitrify contaminated soils at Naval Base Charleston using the direct arc furnaces in Bldg 9.

Paul asked what were the anticipated costs per cubic yard or ton. Hopefully less than \$100/ton which is dependent on cooling times.

Paul also asked if there was a minimum quantity for a larger effort, ie a break even point? This information is not available as of yet. This is being discussed with SCE&G and would possibly be accomplished at off peak hours to obtain the best cost.

Tony asked if any environmental permits were required? Information from DOE labs would be used. Next phase would discuss with DHEC solid waste and air to determine the requirements. This is not an unusual process and initial air emissions would be expected to be below air emissions requirements.

Bo stated that a DOT transporter license would be required. It was stated that they would use non-hazardous soils.

Paul asked what was needed from the PT? This is just an informational discussion. Doesn't need anything other than 5 tons of soil. AJT will drum and ship. Need cooperation with getting the samples.

Kevin asked when? No sooner than a couple of months dependent on funding. Earliest October - November for the vitrification process.

Doyle asked, assuming pilot test works, what is anticipated for Charleston? Negotiations in leasing Bldg 9 furnace areas.

Johnny asked if soils contaminated with non-hazardous waste were going to be used? Possibly two different contaminated samples would be used. They will use what is available and what the PT would like to see used. Tony stated that IDW non-hazardous was available. He wanted to see the results of the demonstration prior to using any hazardous soils. Gerald stated that after the peer review other waste streams will be considered.

Brian asked how would the recycled materials relieve owners liability?

1. Chemical reactions will take place.
2. Hazardous constituents will be separable from non-hazardous constituents.
3. Leaching test will be run.
4. Will produce a viable product.

Gerald stated that owners liability would end when aggregate has been produced.

Tony asked if the facility would be a TSD? As a recycler, the process drops out of the regulations. This is theoretical and will depend on the results of the demonstration phase in Oregon. An ASME study involved hazardous waste incinerator ash. This passed all tests. Naval Base waste is expected to be less of a problem.

Doyle stated that Bldg 9 was small and old with very little storage capacity. Could it be satisfactorily used? They would like to use the entire building. The furnaces were installed by Whitney Industries which could be modified. The air emissions system would be the biggest modification.

Doyle anticipates an air, water and hazardous waste (RCRA) permit will be required. By definition this process is treatment. Permits won't come quick or easy.

Joe asked if anyone else had seen the film on in-situ vitrification. This is available commercially.

It was finally restressed that this is only a demonstration using contaminated non-hazardous soils.

### IDW

Tony provided the definition of "special waste" per Harold Seabrooke (DHEC) as it pertains to IDW:

Special waste should not be used on non-hazardous soil. This is a regulated waste with special properties that need to be controlled (ie chemicals that are not in the regulation but are controlled because of toxicity).

IDW non-hazardous soils are above background but not characterized as hazardous.

When can these soils be placed back on the ground? Need to develop the background for organics. How? Based on some common frequency of sampling. Ensafe has been requested to review the data base to provide a statistical recommendation.

What are options for disposal of non-hazardous IDW or remedial non-hazardous waste?

1. Use as fill at aquarium site (per Kevin 6 months to a year prior to need). Tony's concerns are with the future liabilities. Even if the State approved of this option the Navy maintains a liability.

2. Us as a cover on a municipal land fill.

Doyle asked if anyone had looked at the EPA SOP on how to dispose of IDW. Doyle was concerned that we are wasting a lot of money. There may be a cheaper way and still comply with Federal and State regulations. Doyle is concerned that we are inventing new regulations. Thinks that the State uses EPA SOP. Fred Sloan will be in Charleston on 8/26 and this should be reviewed with him.

**Action to compare the State and EPA SOPs for IDW current practices at Naval Base Charleston. Action: Tony RCD 8/26.**

**Action to review Comprehensive RFI WP for use of “Special Waste” terminology. Action: Tony/Johnny RCD 9/10.**

RAB Critique

The PT provide the following observations from the August 13<sup>th</sup> RAB meeting:

PLUS	MINUS
<ul style="list-style-type: none"> <li>• Tony offered compliment to State presentation on Chicora Tank Farm</li> <li>• Addressed Chicora positively as a team prior to RAB raising the question</li> <li>• Honesty is good policy</li> <li>• Ann did good job explaining 4 options</li> <li>• Better of several months</li> <li>• Zone A presentation open and honest</li> <li>• Chicora presentation went well (Ann clear on what happened and what happens next)</li> <li>• Community members did recognize this was an option</li> <li>• Darvle’s mention of upcoming reports</li> </ul>	<ul style="list-style-type: none"> <li>• Inherent distrust of community by Navy</li> <li>• Person not present at PT meeting should be updated before RAB</li> <li>• RAB does not understand that Navy is still evaluating options. Possible problem.</li> <li>• AOC 690 question not answered</li> <li>• Zone A presentation should not be viewed as public notice.</li> <li>• No input from community subcommittees other than Navy</li> <li>• 25 members - positioning at meeting - hard to hear other end of table. Keep side conversations down.</li> </ul>

Tony stated that Jim Bryan, RDA chairman, was further concerned that Chicora tanks were not going to be totally removed. Felt that the presented option was just a bandaide - can’t develop property.

Cecile stated that Ann’s discussion mentioned several times that Chicora discussion was a team decision.

Important to brief members of PT who were not at the PT meeting. Poses concerns to community of: Why is a team member asking questions of another team member?

Next Project Team Meeting September 10<sup>th</sup> and 11<sup>th</sup>

- Team size and composition [1<sup>st</sup> day, 1 1/2 hours, decision, facilitator]
- Develop vision and mission statement [1<sup>st</sup> day, 2 hours, decision, facilitator]]
- Base condition of property map [1 hour, decision, Darvle]
- CM Zone H Workplan [2 hours, decision, Tony]
- Fingerprinting PAHs in Sediments [1 hour, information, Tony]
- UXO status [1/2 hour, information, Brian]
- Addition of permits on project status sheets [1/2 hour, decision, Darvle]
- Update on Zone A (SWMU 39) status [1 hour, information, Tony/Todd]
- Update on Fast Track [1 hour, information, Paul]

- Fiscal year 1997 budget [1 hour, information, Tony]
- IM status [1 hour, decision, Brian]

Note no community relations meeting on Tuesday 9/10.

Recommended that lunch be ordered in on Tuesday to conserve time.

Location to be determined by Daryle.

Leader: Todd or Tony

Conference call 8/26 @ 1:00 - 2:00.

IM scoping meeting 9/9 after RDA meeting in Detachment office (Bldg 30)

#### Cecile's Wrap-up

- ♣ Minutes - comments/changes should be provided at meeting and consensus obtained.
- ♣ Agenda - needs to have objectives.
- ♣ Absentees - how will proxy be handled. Needs to be addressed.
- ♣ How does PT view the BCT? Needs to be revisited/resolved. Keeps popping up. Maybe address in the October meeting.
- ♣ Feels positive over what was accomplished.
  - very productive
  - hope team sees value [may seem like step backwards, but will be beneficial as resolution has been reached]
  - identified "root cause" by initiating discussion on IMs
  - will move forward
- ♣ Conflict resolution training successful

As usual, all had fun. However Cecile had the most fun knowing that she will be in San Francisco during the next meeting.

**Naval Base Charleston Project Team Meeting  
August 13 & 14, 1996**

**Attendance Sheet**

<u>NAME</u>	<u>ORGANIZATION</u>	<u>PHONE</u>	<u>FAX</u>
Tony Hunt	SOUTHDIV	(803) 820-5525	(803) 820-5563
Bo Camp	CSO	(803) 743-9985	(803) 743-9947
Hayes Patterson	SOUTHDIV	(803) 820-5658	(803) 820-5563
Brian Stockmaster	SOUTHDIV	(803) 820-7481	(803) 820-5563
Johnny Tapia	SCDHEC	(803) 896-4179	(803) 896-4002
Todd Haverkost	E/A&H	(803) 884-0029	(803) 856-0107
Kevin Tunstall	DETCNASN	(803) 743-6777	(803) 743-9413
Bobby Dearhart	DETCNASN	(803) 743-2821	(803) 743-0174
Doyle Brittain	USEPA	(404) 562-8549	(404) 562-8518
Paul Bergstrand	SCDHEC	(803) 896-4016	(803) 896-4002
Daryle Fontenot	SOUTHDIV	(803) 820-5607	(803) 820-5563
Paul Tomiczek	Bechtel	(423) 220-2235	(423) 220-2748
Cecile Lacey	Galileo (facilitator)	(401) 762-2391	(401) 762-2133
Joe McCauley	SOUTHDIV (Tier II link)	(803) 820-5500	(803) 820-7465

**Action Items From August 13<sup>th</sup> and 14<sup>th</sup> PT Meeting**

ACTION	ECD	ASSIGNED TO
1. Finalize July 2 PT meeting minutes.	8/26/96	Bobby
2. Coordinate with EOSD what "Due diligence" search for UXO is considered.	9/10/96	Kevin
3. Provide questions to Daryle for TV interview.	8/19/96	Team
4. Schedule pre-submittal review for Zone A RFI Report.	9/3/96	Individuals on distribution
5. Provide the response to State and EPA comments for Zone J RFI Workplan.	8/16/96	Tony/Todd
6. Provide agency review of PT membership.	9/10/96	Team
7. Reach consensus on PT membership.	9/10/96	Team
8. Provide Tier II submittal package from other Tier I teams to all PT members.	8/28/96	Brian
9. Detachment, DHEC and SOUTHDIV meet to decide fate of IMs for SWMUs 38, 42 and 109.	8/17/96 at DHEC	Detachment DHEC SOUTHDIV
10. Provide input to Paul's and Doyle's questions on "Fast Track".	8/30/96 to Paul	Team
11. Compare EPA and DHEC SOP for IDW with current practices at Naval Base Charleston.	8/26/96	Tony
12. Review Comprehensive RFI Workplan for use of terminology on special waste that is non-hazardous contaminated.	9/10/96	Tony/Johnny

Hartsill W. Truesdale, P.E., BUREAU CHIEF  
 Sabra Lindler, Administrative Assistant  
 Gu

Linda Troutman, Business Associate  
 Nadine Farmer, Receptionist

Harry L. Mathis, Jr., P.E., ASSISTANT BUREAU CHIEF			David E. Wilk	
<p><b>HYDROGEOLOGY</b> G. Kendall Taylor, P.G.</p> <p>*****</p> <p>Marilyn McMillan</p> <p><u>Hazardous Waste Section</u> Manager: Jack Gehling</p> <p>* Paul Bergstrand Joe Bowers Bill Bradham Marianna DePratter Cynde Devlin Harriet Gilkerson Don Hargrove Tim Hornosky Jo Cherie Overcash Roger Schweitzer</p> <p><u>Superfund Section</u> Manager: Kent Coleman</p> <p>Jim Bowman Billy Britton Judy Canova Marion Feagin Carol Minsk Yanqing Mo Don Siron Mark Whittle</p> <p><u>Solid Waste Section</u> Manager: Van Keisler</p> <p>Eric Cathcart Michelle McCormick Jane Mundell Bobbi Suski Kim Tappa</p>	<p><b>SITE ASSESSMENT AND REMEDIATION</b> J. Keith Lindler, P.E.</p> <p>*****</p> <p>Norma West Elaine Rowell</p> <p><u>Site Engineering Section</u> Manager: Gary Stewart</p> <p>John Davis Rebecca Dotterer Carla Ewing Julie Fridell Keith Frost Richard Haynes Gail Jeter Angie Jones Mike Klender Ike Nerzesky Darrrell Weston</p> <p><u>Site Assessment Section</u> Manager: John Cresswell</p> <p>Robert Cole Craig Dukes Greg George Peter Koufopoulos Susan Kufine Ben Maynard Johnathan Melanis Donna Sighler</p> <p><u>Federal Facility Agreement Section</u> Manager: Keith Collinsworth</p> <p>Robert Hucks Mihir Mehta Cheryl Nybo</p>	<p><b>WASTE ASSESSMENT AND EMERGENCY RESPONSE</b> Ronald W. Kinney</p> <p>*****</p> <p>Ann Gibson, Maureen Lynch Tammy Harper</p> <p><u>Emergency Response Section</u> Manager: Chris Staton</p> <p>Lisa Appel Steve Burdick Michael Juras Julie Lott Pete Saussy Barry Thompson David Wilkie</p> <p><u>Waste Assessment Section</u> Manager: Harold Seabrook</p> <p>Chuck Arnold Bubba Carns Kristy Carter Howard Moseley</p> <p><u>Nuclear Emergency Planning Section</u> Manager: Sandra Threatt</p> <p>Chadd Altman Buck Corley Sharon Cribb John Jesse Susan Kolsterhaus</p>	<p><b>COMPLIANCE MONITORING/ ENFORCEMENT</b> Ted Buchanan, MPA</p> <p>*****</p> <p>Helen Grant Ancita Beard</p> <p><u>Compliance Monitoring Section</u> Manager: Allan Tinsley, MPA</p> <p>Clyde Buchanan Carroll Burley John Cooper Robert Fairey Teresa Hayes Debra Shull Kathy Williams Lisa Yeager</p> <p><u>Hazardous Waste Enforcement Section</u> *</p> <p>Manager: Cheryl Coleman</p> <p>Pamela Baker Kenny Brown Kim Hagan Fred Hawkins Sandy Schwahn</p> <p><u>Solid Waste Enforcement Section</u> Manager: Charlie Strange</p> <p>Jo Ann Ballingall Rudy Curtis Pete Stevens</p>	<p><b>HAZARDOUS AND INFECTIOUS WASTE MANAGEMENT</b> Randy Thompson, P.E.</p> <p>*****</p> <p>Kim Clyburn Susan Whetsell</p> <p><u>Hazardous Waste Permitting Section</u> Manager: John Litton, P.E.</p> <p>Kaye Barnes Preston Campbell Alysa Coffey Bill Corder Joni Hartley Ken Johnson Suzanne Rhodes Crystal Rippey Shelley Sherritt Johnny Tapia Paul Wilkie</p> <p><u>Infectious Waste Section</u> Manager: Phil Morris</p> <p>Jacob Baker Margie Davis Gil Rennhack</p>

# PT AGENDA

Revision 1

**Naval Base Charleston  
Environmental Cleanup Project Team  
Meeting Agenda  
September 10 & 11, 1996**

Leader - Todd Haverkost  
Scribe - Bobby Dearhart

*\* Palmetto Conference Center @ Charleston Air Force Base*

*September 10, 1996*

8:00 - 8:15	Introduction		Todd Haverkost
	Revise Agenda		
8:15 - 9:00	Prioritize Agenda		Todd Haverkost
	Define Objectives of Meeting		
9:00 - 9:15	Review Minutes and Action Items from August Meeting		Todd Haverkost
9:15 - 9:45	Review IM status	(Decision)	Brian Stockmaster
9:45 - 10:00	Break		
10:00 - 12:00	Project Team Size and Composition	(Decision)	Dr. Lee Wille Donna Kopeski Tony Hunt
12:00	Handout Project Status Sheet		
12:00 - 12:30	Lunch [order in]		
12:30 - 1:30	Pre-RAB Presentation Preparation		Todd Haverkost
1:30 - 2:00	UXO Status	(Information)	Brian Stockmaster
2:00 - 3:00	SWMU 39 Update	(Information)	Todd Haverkost
3:00 - 3:15	Break <small>&lt; MW APPLICATION, AIKEN FOLLOW UP</small>		
3:15 - 4:00	Project Status Sheet Review/ Addition of Tenant Permits	(Decision)	Tony Hunt

*September 11, 1996*

8:00 - 8:30	Post RAB Meeting Critique		Todd Haverkost
8:30 - 10:00	Develop Vision and Mission Statement	(Discussion/ Decision)	Dr. Lee Wille Donna Kopeski
10:00 - 10:15	Break		
10:15 - 11:15	Fast Track Cleanup	(Information)	Paul Bergstrand
11:15 - 12:00	FY 97 Budget	(Information)	Tony Hunt
12:00 - 1:00	Lunch		
1:00 - 1:30	Base Condition of Property Map	(Decision)	Daryle Fontenot
1:30 - 3:00	Zone H CMS Work Plan	(Decision)	Tony Hunt
3:00 - 3:15	Break		
3:15 - 4:00	TPH as Cleanup Criteria	(Decision)	Brian Stockmaster
4:00 - 4:15	Next Meeting Date, Time, Place and Leader Set Agenda Review Action Items and Parking Lot Set September Conference Call		Todd Haverkost
4:15 - 4:30	Close-out and Wrap-up		Dr. Lee Wille Donna Kopeski

PT MINUTES

October 18, 1996

NAVAL BASE CHARLESTON  
PROJECT TEAM

From: Bobby Dearhart

Subj: FINAL SEPTEMBER PT MEETING MINUTES

Encl: Naval Base Charleston Cleanup Project Team Meeting Minutes for  
September 10 and 11, 1996

1. Enclosed are the final minutes from the September 10<sup>th</sup> and 11<sup>th</sup>, 1996, PT meeting. All comments that were received have been incorporated.

BOBBY DEARHART  
SCRIBE

Distribution:

Dave Backus

Paul Bergstrand

Doyle Brittain

Daryle Fontenot

Todd Haverkost

Tony Hunt

Hayes Patterson

Ann Ragan

Brian Stockmaster

Johnny Tapia

Paul Tomiczek

Kevin Tunstall

Cecile Lacey

**Naval Base Charleston Project Team  
Meeting Minutes  
September 10 and 11, 1996**

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List of attendees is attached.

Tony opened the meeting . Dr. Lee Wille and Donna Kopeski from Galileo were introduced as the facilitators for Cecile who was enjoying San Francisco.

Todd and Hayes were noted as not present. Dave was acting as Todd's proxy and Daryle was acting as Hayes' proxy.

Tony read the ground rules.

Revise Agenda

- Doyle requested time to provide follow-up of Aiken meeting held 9/3. Tony stated that he would issue minutes by 9/13.
- Tony requested time to discuss the Vitrification presentation.
- Paul requested time for monitoring well approval discussion

Times were reduced on the original agenda to include new items. Bobby noted that the afternoon of the first day was dedicated to RAB preparations. The following agenda changes were made to make time for new items:

- move TPH discussion as cleanup criteria to IM status
- compress PT size and composition allotment

Meeting Objectives

IM Status - Doyle asked how much of the budget was being used? How much do we have and can we do more with it? What is the budget for the DET, how much has been spent and how much is left to work with?

Brian will add 3 UXO sites to IMs.

Project Team Size and Composition - Determine and obtain consensus on appropriate PT composition and size.

TPH Cleanup Criteria -Decision on what criteria will be used.

The following general comments/requests were made:

- Bobby passed out the final minutes for the July PT meeting and Draft minutes for the August PT meeting and requested review comments ASAP.

- Tony asked if there was anything others could do to help prepare the minutes. Bobby responded not that was known that it just takes time. Tony requested that the actions be issued earlier so members could respond. Bobby agreed.

- Tony passed around the old PT member address sheet and asked everyone to verify the information and also provide electronic mail addresses if available.

Action Items from August PT Meeting

Status of the action items listed in the August meeting minutes were provided as follows:

ACTION FROM AUGUST PT MEETING	STATUS
1. Finalize July 2 PT meeting minutes.	Action complete. Final minutes were distributed.
2. Coordinate with EOSD what "Due diligence" search for UXO is considered.	Action complete. Proposal was provided to SOUTHDIV for review to submit to State.
3. Provide questions to Daryle for TV interview.	Action complete. Show was taped 8/26/96 and televised 9/1/96. Interview was reported as good and TV 2 wants to visit the Base and see sites.
4. Schedule pre-submittal review for Zone A RFI Report.	Action complete.
5. Provide the response to State and EPA comments for Zone J RFI Workplan.	Action complete. SOUTHDIV submitted. EPA had not received. Tony will track down and ensure EPA gets copy.
6. Provide agency review of PT membership.	Action complete. PT membership is on the agenda for decision.
7. Reach consensus on PT membership.	Action will be completed 9/10 at PT meeting.
8. Provide Tier II submittal package from other Tier I teams to all PT members.	Action complete.
9. Detachment, DHEC and SOUTHDIV meet to decide fate of IMs for SWMUs 38, 42 and 109.	Meeting complete 8/17. DET proceeding with resolution of comments on SWMU 38 and 42. SWMU 109 will be reviewed for process closure.
10. Provide input to Paul's and Doyle's questions on "Fast Track".	Action complete. Comments were slow in arriving. On the agenda for 9/11.
11. Compare EPA and DHEC SOP for IDW with current practices at Naval Base Charleston.	Partially complete. The State does not have a SOP. In a letter to Tony from David Walton (former State rep to PT) explained what the State uses. Doyle was also not aware of any EPA SOP. Fred Sloan was to become involved during his visit to the Base. The issue is can IDW be placed back on the ground? This will

	continue to be reviewed.
12. Review Comprehensive RFI Workplan for use of terminology on special waste that is non-hazardous contaminated.	Action complete. The question is "Special Waste" correct? The Comprehensive RFI WP does not use the terminology. After discussion agreed that the Comprehensive RFI WP is satisfactory as is.

IM Status

Brian gave the following status:

- ♣ Coal Field (SWMU 44) and the Abrasive Blast Area (SWMU 54) are basically complete.
- ♣ The Hobby Shop (AOC 653) has been excavated. Now chasing TPH. This will be discussed during the TPH as cleanup criteria.
- ♣ Former Storage Bldg 665 (SWMU 159) almost complete pending confirmatory sampling.

The following sites are no longer IMs:

- ♣ Bldg 9 Foundry (SWMU 83) has been changed to a process closure.
- ♣ Former Plating Shop Bldg 44 (SWMU 25) will be demolished. This has been determined satisfactory as long as soils are not disturbed. Ann emphasized that if asbestos is involved that a notification was required and that asbestos roofing requires special licensing. Johnny still needs a letter from SOUTHDIV addressing this issue since Bldg 44 is part of a SWMU. Any change to a SWMU requires notification to the State. The State is mainly concerned with how the debris will be disposed. Doyle has previously provided EPA guidance on disposal of contaminated construction debris.

The following overview of the budget was provided:

- ♣ funds were set aside for DET use based on 6 months of work
- ♣ attempted to identify as much work as possible early
- ♣ funds spent will be somewhat less than \$7.5M budget
- ♣ ≈ 24 IMs were identified but are only working 5 in the field
- ♣ difficult for SOUTHDIV to say how much has been spent. Bobby will provide cost data.
- ♣ Kevin stated that the allocations were more important and how it was divided.

Doyle stated that the last couple of years information on the budget was separate from the DET. Decisions were made on how the money was to be spent. He was not aware if that information was being provided on the DET - How much money is available, when will it be available, how much money was spent, how much is left, what are we going to do with it? If money is left in the budget and we are not pushing work then the PT is not doing its job.

Tony stated that there was \$7.5M in the budget for the DET from 2 April to 30 September 1996. Doyle asked if money is made available next FY, will the money not spent this FY be lost (ie FY 97 budget reduced)? Tony replied yes.

**Action for the PT to determine how to spend the remainder of the \$7.5M before 1 October. ECD 9/18/96.** Bobby will provide the data on how much has been spent and how much remains.

UXO:

Only one UXO site (AOC 503) was identified as an IM. Brian wanted to submit UXO sites AOC 500, AOC 501 and AOC 502 [all water borne] as candidate IMs. All four sites are being reviewed for the investigative approach to be submitted to the State. AOC 503 will be a specific WP while the remaining three will address the work approach. The water borne UXO are very difficult and require using greater expertise. Also the land based UXO have a higher probability of being found.

Johnny asked when would the letter be submitted to the State? Kevin responded NLT September 20<sup>th</sup>. The WP will cover AOC 503 and an approach will be provided for AOCs 500, 501 and 502. Johnny stated that enough detail must be provided so the State is comfortable with the approach.

The major concerns deal with how the Navy will approach the search and removal of the UXO. Navy policy covers search and disposal and RCRA covers any releases from the UXO. The question was posed should the search and removal of the UXO be an IM?

Doyle stated that not finding the UXO was a bigger concern than finding it. If not found how will it be addressed? Need to ensure that a "due diligence" search is performed. Bottom line is property transfer - if found and removed, no problem; if not found, deed restrictions. The CNCRA has similar concerns other the ability to develop the property if UXO is not found. A recommendation was made that the PT needed to agree on what "due diligence" is considered.

Lee observed that the State was interested in:

- qualifications to accomplish work
- scope of the search
- means and technology

The State is interested in the variables.

Bobby questioned what the State really wants? Is there anybody at the State who is qualified as an expert on locating and disposal of UXO? The PT has been discussing UXO for 3 years and we still haven't reached agreement on what needs to be done. Kevin stated that the approaches discussed are from experts who do this type of work. We are not really sure of what needs to be in the WP and what a WP will accomplish.

Ann stated that a cover letter on the contractors approach document should be adequate for the State. The State wants to be sure the approach is adequate to determine what is being accomplished and that it will meet the requirements of "due diligence".

***Consensus was provided that four sites will have an approach provided and that the PT will agree on it meeting "due diligence" for the search. This will be an IM. ECD 9/20/96.***

#### TPH Cleanup Criteria

Brian defined the question as petroleum contaminated sites are using TPH as cleanup criteria. The State UST program uses other guidelines since chasing TPH may not accomplish the goals and does not indicate risk. The question is can constituent analysis be used as cleanup criteria at petroleum contaminated RCRA sites vice TPH?

Johnny asked what is being proposed to be used? Brian stated the UST guidelines. UST program has specific guidelines based on soil depth and ground water level. Daryle added that the UST program examines constituents such as BTEX and naphthalene. The Navy proposes to use the fuels and waste oils as defined in the State document "Soil and Ground Water Remediation Guidance". Doyle recommended that TPH be used as an indicator, but specific constituents be used for cleanup criteria.

Johnny agreed that the BTEX/naphthalene guidance should be used based on what the reported release is. TPH should be used as a screening tool. Paul recommended that the guidance document criteria be adopted.

Doyle emphasized that if the soil has PCB or RCRA contaminants then the applicable (RCRA/TSCA) regulations would apply. Kevin pointed out that an example that we are dealing with now is the Hobby Shop (AOC 653). We are using TPH as the requirement but there are also lead and BEQs. The question still is what level do we go with the TPH for excavation?

***Consensus passed that TPH levels would not be the "driver" in cleanup of RCRA sites, but TPH may be used as a screening mechanism.***

***Consensus passed to use components on page 8, last paragraph of the State "Soil / Ground-Water Remediation Guidance" document dated March 3, 1996, and applicable regulatory limits to determine appropriate cleanup standards.***

Paul emphasized that TPH may still be required by the State for disposal. Kevin agreed and stated that TPH > 100 ppm required a letter to the State for disposal.

## PT Size and Composition

The PT members had action from the August meeting to provide recommendations from their respective agencies on who should be represented on the PT.

The following list of present members is edited to reflect input from the PT members:

SOUTHDIV -	Daryle, Brian, Tony, <del>Hayes, Bo, Gabe</del> (see note below)
Detachment -	Bobby, Kevin
Bechtel -	<del>Paul</del> (see note below)
Ensafe -	Todd, Dave
EPA -	Doyle
DHEC -	Johnny, Paul

Ann - on Tier II. Tasked as knowing what is going on as well as what is happening with the public. Would like to stay on as the Tier II link vice Joe McCauley.

Note: Paul, Hayes, Bo, and Gabe would move from Active team to Inactive team members. They would receive minutes, come as requested, and also attend 3 - 4 times per year to keep up with what is happening.

Bobby emphasized the note on the recommended Tier I PT member handout from August that states "Team members should provide an added value to the team if they are to be effective members".

Consensus was tested and passed with three "can live with it". The PT agreed to try and address the concerns and continue discussion. Input was obtained as to is the PT moving forward with the composition.

Kevin - Each agency should have a single vote based on input from that agencies' members. There should be some type of chain of command - one agency, one vote.

Paul T. - Agrees with Kevin. Discussions should be everyone from a single agency but each agency should have a single vote.

Lee interjected that teams don't vote, they poll. Voting allows the majority to win, where polling provides agreement among all.

Brian - Value added must be considered. Feels that the size and composition can be cut. One vote per agency does not necessarily add value.

Tony - Consensus polling should be from individuals that are knowledgeable.

Johnny - Every member should have polling rights. There are three State members all with different responsibilities and knowledge.

Ann - Doesn't see this as an issue. Members should represent the team and the agency.

Paul T. - Agree with everything that has been said. Decisions should not be by majority, but by consensus. If decisions are made by weighted voting, an agency could skew the outcome.

Bobby - Doesn't make a difference. Each member should have polling rights. We need to working as a team and decisions should be made based on this.

Kevin - Original comment didn't mean only one vote per agency. Intent was that the agency provide a unified front.

Doyle - We have eliminated several from the original list of members. Can live with the new list but would rather have too many members than not enough. Decisions should be by consensus. Agencies should take off their hats. Agency disagreements are good and provoke discussion. Basically, members should take off agency hats, put on team hats, and do what is right.

Bo - Not an issue.

Daryle - Not an issue.

Paul B. - Team should work for consensus for success in cleaning up the base.

Ann - The PT may be getting into an inappropriate area trying to dictate who agencies should have on the team. It was agreed that each agency should send who they need.

The following was presented as the PT membership:

Full-time

SOUTHDIV -	Daryle, Brian, Tony
Detachment -	Bobby, Kevin
DHEC -	Johnny, Paul, Ann
EPA -	Doyle
Ensafe -	Dave, Todd

Part-time (receive minutes/attend as needed)

SOUTHDIV -	Bo, Hayes, Gabe
Bechtel -	Paul

***Consensus passed on above PT membership with three "can live with it".***

## Pre-RAB Presentation Preparation

Daryle passed out the agenda for the RAB meeting, and went over RAB concerns and subcommittee reports.

### Environmental Cleanup Progress:

- Chicora Tank Farm - Daryle discussed the article in the Post Courier on Chicora Tank Farm.

The following status was provided:

- Trying for 30 September meeting with DHEC
- Awaiting an award for the contract
- Contract is to revise/refine costs on the different proposals

There was concern expressed that the community sees that commitments have been made that partial demolition of the tanks will be accomplished. Ann will briefly go over Chicora again and stress that options are still being reviewed. Still need to be concerned about CNCRA issue that this is a bandaide and will not be able to transfer/develop the property.

- SWMU 39 - Need to present this to the RAB. The following was discussed:
  - Todd would do presentation
  - Daryle will handle discussion of the plume communication to the public
  - Plume will be the last issue to present

Doyle was not in agreement that Todd should present this. Also recommended that the word "problem" not be used since people focus in on this.

Ann asked who would be better to present this issue. Doyle stated that it is a Navy problem, Navy should present. However, there is a credibility problem, therefore Doyle felt that DHEC or EPA should do it. As a note, Elmer Aiken (EPA risk assessment) is on standby to review any data.

Need to also speak to contamination coming onto base. Tony is not in agreement until the Navy has discussed this with Hess Oil. Feels we should just stick with the facts that there is free product in the wells at SWMU 39. Decided that Hess Oil should be notified since the potential for contaminants coming onto the base would be discussed. Jim Beltz and Steve Beverly of SOUTHDIV will make this contact.

Todd stated that additional wells will be installed along the boundary. Direct push will be used to detect the clay layer. Looking at using direct push on city right of ways outside of fence. It was agreed that a fact sheet should be developed to let the community know what is happening and that the Mayor of North Charleston should be briefed before the RAB. Daryle, Paul and Jim Beltz briefed the mayor. A copy of the fact sheet is attached.

The PT considers that a public meeting should not be held, and that the fact sheet would be passed out door to door. This should answer most of the questions.

**Daryle has action to determine if a public meeting will be held based on the meeting with the Mayor of North Charleston. ECD 9/11/96.**

- Tenant Permits on Project Status Sheet -

The question posed should tenant permits be placed on the Project Status Sheet? Tony stated that tenant permits are handled through the CNCRA. Not sure what involvement CSO has. Doyle stated even though the permits don't belong to the Navy, the Navy has liability as long as the Navy owns the property.

**Daryle has action to add discussion of tenant permits on the next CNCRA meeting agenda. ECD 10/8/96.**

*Consensus was given not to put tenant permits on the Project Status Sheet.*

**Tony has action to talk with DHEC on the status of existing Navy permits. ECD 9/17/96.**

- UXO Status -

Brian asked if UXO should be brought up at the RAB meeting? Doyle recommends to bring it up gradually through the IM updates. Brian will present the IM update to the RAB.

*Consensus provided to bring up addition of UXO sites with the IM status and give a general idea of what is being done.*

### Monitoring Wells

Paul requested that as much time as possible be given in requesting monitoring well installation permits. Also noted that the DHEC district office requires 48 hour notice prior to installation. Todd acknowledged this concern and stated it is now under control.

### Follow-up of Aiken Meeting Items

Doyle brought up several items of concern from the September 3 Aiken meeting. These concerns centered around meeting the CAMP schedules and working to identify problems before they occur. Doyle stated that the next regulatory date missed, the Navy would receive a "Warning Letter". The second regulatory date missed would result in an "Enforcement Action". Johnny stated that not meeting CAMP dates is grounds for an enforcement action.

Post RAB Critique

The PT provided the following observations from the September 10<sup>th</sup> RAB meeting:

PLUS	MINUS
<ul style="list-style-type: none"> <li>• Ann was effective on Chicora</li> <li>• Open and dealt with the facts</li> <li>• RAB now has our information</li> <li>• No speculations</li> <li>• RAB supported PT in front of news media</li> <li>• Unified front to RAB; they came on board</li> <li>• Ann and Todd did a good job</li> <li>• RAB acted as a unit</li> <li>• Tony wasn't there</li> <li>• Stuck to plan</li> <li>• Daryle was effective on TV</li> <li>• Everybody presented well</li> <li>• Seeking RAB help worked well</li> <li>• Fact Sheet went as planned</li> </ul>	<ul style="list-style-type: none"> <li>• SWMU 39 went too long</li> <li>• News media may create problem</li> <li>• RAB members didn't want to help</li> <li>• Didn't specify how the RAB could help</li> <li>• Had a big issue and didn't have time to prepare (suggest moving PT meeting to Monday and Tuesday)</li> <li>• Name a spokesperson for group before the meeting</li> <li>• Determine way to keep Daryle off TV (Daryle comment)</li> <li>• Didn't anticipate TV coverage</li> <li>• Need better visual aids</li> <li>• This became a priority issue at the RAB (ie not identified as top priority at PT meeting)</li> <li>• BCT should sit together at the table to negate any impression of non-cohesiveness</li> <li>• Didn't answer concerns on leaving hazardous waste behind (did we sample under tanks)</li> <li>• Need to get community leaders involved prior to RAB meeting</li> <li>• Distinguish between hazardous material and hazardous waste</li> <li>• Be sensitive to impact of word choice</li> <li>• Consider use of moderator</li> <li>• Hand out only accurate information (ie Project Status Sheet)</li> <li>• Didn't anticipate how important new wells would become</li> </ul>

Jim Beltz stated concern that the PT members were not readily recognized on the RAB. It might be advantageous for the PT to sit together. Also concerned that all questions are not being addressed.

Doyle and Ann consider it important that the PT members mix and mingle, and shouldn't be pointed out as something special.

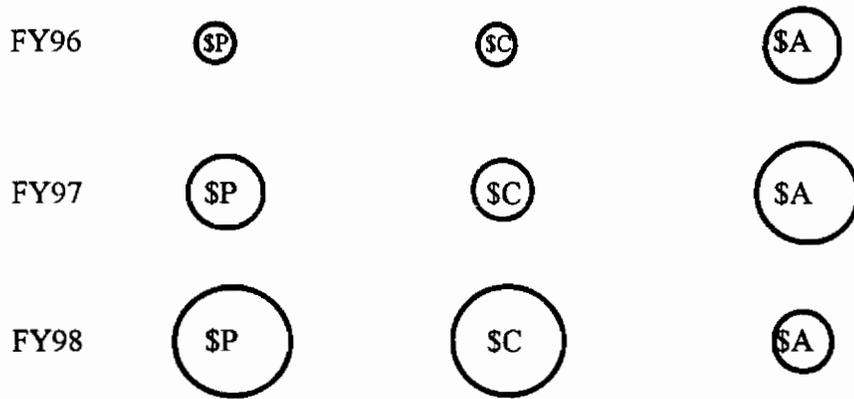
Many questions were posed on Chicora Tank Farm. The following actions resulted:  
**Wayne Cotton will provide discussion at meeting with State. ECD 9/30/96.**  
**PT will make the presentation at RAB. ECD 10/7/96.**

The following were suggested as ways to improve RAB presentations:

- Use flip charts for lists and similar presentations
- Use flip chart to structure RAB input
- PT meeting on Monday and Tuesday
- Make more effective use of other visual aids
- Think about audio/visual tools during conference call
- Have government personnel present data
- Remember to keep presentations simple
- Consider RAB training needs
- Consider knowledge RAB needs to understand presentations
- Daryle will be PT media spokesperson
- Have Jim and Diane at Pre-RAB meetings
- Define need for RAB assistance very specifically

FY 97 Budget

Tony presented an overview of the number of projects in FY96, FY97 and FY98, and a comparison of the funds available.



\$P - Projects available  
 \$C - Projects to meet CAMP  
 \$A - Funding available

ie - for \$P      FY96 small # of projects  
                     FY97 more projects but still small  
                     FY98 larger # of projects

Tony provided a handout showing the projects identified for FY97 and the projected funding levels. Tony explained the handout.

Bobby asked if the FY97 included \$18M for the DET? Bobby also asked if this included the roll over funds from FY96? Tony responded that it did not include a total of \$18M for the DET, and that the roll over funds will be included as part of the FY97 budget.

Bobby explained that NAVFAC had directed SOUTHDIV to fund the DET at \$7.5M for FY96 and \$18M for FY97. This was an agreement between NAVFAC and NAVSEA. Bobby asked how high up the SOUTHDIV chain of command has this decision be passed? Tony stated that these were his figures and have been passed to Cdr Berotti.

Doyle asked if the remaining FY96 funds were going to be lost? Tony said that they would roll over to the FY97 budget but that the overall funds for FY96 and FY 97 would be reduced. Doyle stated that EPA was not in agreement with losing any funds. Tony stated that the work has not been identified.

Doyle asked how much is it costing CSO to maintain the Base? Daryle stated approximately \$20M per year. Doyle stated that it would be economically more beneficial to spend the money to cleanup the Base faster to turn property over and cut the cost of maintaining property. Doyle stated that he (EPA) wanted all of the FY96 funds committed so it would not be lost. Doyle questioned how much had not been committed? Bobby stated approximately \$2.1M.

**Action for PT to meet Tuesday and Wednesday (9/17 and 9/18) at Ensafe to identify \$2.1M of work to prevent lost of funds. ECD 9/17/96**

### IM Proposal

Kevin discussed the States problem with time required to review all documents which have been submitted to them on Naval Base Charleston. IM submittals are going to require time also and will not allow field work to begin until after IMs are reviewed and approved. Kevin made the following proposal to help expedite the IM process:

- Detail scope of IM
- Prepare IM workplan and submit to regulators for information
- Provide final detail report to State with results of IM

This proposal is based on no requirement to submit and obtain approval from the State on IM workplans. The State must agree on candidate IM but not the actual workplan. A final report is required to be provided by the Navy to the State with information on what was accomplished.

Johnny stated that the State is very concerned with waste disposal. The workplans must address all of the State's concerns.

Bobby recommended that the State's concerns including waste disposal could be addressed in a letter which submitted the workplan for information. Johnny stated that he would like to see the workplan. Johnny has talked to John Litton (his supervisor) and has received agreement that a go ahead could be given without approval. This would allow an IM to go to the field much quicker without the final approval of the workplan.

This item has not been fully reviewed and will be further discussed in future meetings.

### September Conference Call

It was agreed that a September conference call was not necessary.

### Next PT Meeting

October 7 <sup>th</sup> , 8 <sup>th</sup> and 9 <sup>th</sup> , 1996		Leader: Todd	
October 7 <sup>th</sup>	10:00 - 12:30 3:30 - 8:00	Pre-RAB Discussion IM Scoping	NBC Bldg 30 NBC Bldg 30
October 8 <sup>th</sup>	8:00 - 3:30	PT Meeting	NRRC
October 9 <sup>th</sup>	8:00 - 1:00*	PT Meeting	NRRC

\* PT meeting may go long if necessary

PT agenda items:

- Mission and Vision Statement
- Corrective Measures Study Procedure
- Fast Track Cleanup
- Methods for Cleanup Evaluation
- Academia Involvement
- Base Condition of Property Map
- MBTI Results
- 97 Project Execution
- DRMO Status

**Project Team has action to review the Cecil Field Vision and Mission, and the EPA guidance on Methods for Cleanup Evaluation prior to next meeting. ECD 10/8/96**

### Lee's Wrap-up

Conflict - using a hammer undermines PT  
At Hilton Head team had substantial problems  
Since Hilton Head tremendous progress  
90% time very effective  
Positive input and participation

Meeting was adjourned until October.

**Action Items From September 10<sup>th</sup> and 11<sup>th</sup> PT Meeting**

<b>ACTION</b>	<b>ECD</b>	<b>ASSIGNED TO</b>
1. Brief the Mayor of North Charleston on SWMU 39	9/10/96	Daryle/Paul
2. Meeting on Chicora Tank Farm status with State	9/30/96	Wayne Cotton
3. Presentation to PT on Chicora Tank Farm status for RAB	10/7/96	Wayne Cotton
4. Contact Lillian Mood for assistance with PT communication with the public	10/9/96	Ann
5. Propose date for IM site visit	10/8/96	Kevin
6. Provide CMS presentation	10/8/96	Johnny
7. Review CMS guidance document for discussion	10/8/96	Team
8. Determine if public meeting will be held concerning SWMU 39	9/11/96	Daryle
9. Propose CMS site groupings	10/8/96	Tony/Todd
10. Review Condition of Property maps for comment	10/8/96	Doyle/Johnny/Paul
11. Review EPA guidance (230/C2-89-C42) on Cleanup Standards	10/8/96	Team
12. Provide copies of EPA guidance (230/C2-89-C42) Cleanup Standards to team members	9/25/96	Kevin
13. Review Cecile Field Mission and Vision document	10/8/96	Team
<b>14. Review Corrective Action Plan ??????</b>	10/8/96	Team
15. Add discussion of permits to October RDA meeting	10/8/96	Daryle
16. CSO talk to DHEC on status of existing Navy permits	9/17/96	Tony

**Naval Base Charleston Project Team Meeting  
September 10 and 11, 1996**

**Attendance Sheet**

<u>NAME</u>	<u>ORGANIZATION</u>	<u>PHONE</u>	<u>FAX</u>
Tony Hunt	SOUTHDIV	(803) 820-5525	(803) 820-5563
Bo Camp	CSO	(803) 743-9985	(803) 743-9947
Ann Ragan	SCDHEC	(803) 734-4721	(803) 734-5407
Brian Stockmaster	SOUTHDIV	(803) 820-7481	(803) 820-5563
Johnny Tapia	SCDHEC	(803) 896-4179	(803) 896-4002
Todd Haverkost	E/A&H	(803) 884-0029	(803) 856-0107
Kevin Tunstall	DETCASN	(803) 743-6777	(803) 743-9413
Bobby Dearhart	DETCASN	(803) 743-2821	(803) 743-0174
Doyle Brittain	USEPA	(404) 562-8549	(404) 562-8518
Paul Bergstrand	SCDHEC	(803) 896-4016	(803) 896-4002
Daryle Fontenot	SOUTHDIV	(803) 820-5607	(803) 820-5563
Paul Tomiczek	Bechtel	(423) 220-2235	(423) 220-2748
Dave Backus	E/A&H	(901) 372-7962	(901) 372-2454
Lee Wille	Galileo	(603) 882-4616	(603) 883-2330
Donna Kopeski	(facilitator)		
Joe McCauley	SOUTHDIV (Tier II link)	(803) 820-5500	(803) 820-7465
Jim Beltz	SOUTHDIV	(803) 820-5771	
Bill Hill	SOUTHDIV	(803) 820-7054	

# PT AGENDA

**Naval Base Charleston  
Environmental Cleanup Project Team  
Meeting Agenda  
October 8 and 9, 1996**

Leader - Todd Haverkost  
Scribe - Bobby Dearhart

*\* Naval Reserve Readiness Center @ Cummins Industrial Park on Leeds Avenue*

**October 8, 1996**

	8:00 - 9:00	Introduction		Todd Haverkost
		Revise Agenda		
		Prioritize Agenda		
		Define Objectives of Meeting		
	9:00 - 9:30	Review Minutes and Action Items from September		Todd
Haverkost		Meeting		
	9:30 - 9:45	Break		
	9:45 - 12:00	Mission and Vision Statement	<i>(Decision)</i>	Cecile
Lacey				
	12:00 - 1:00	Lunch		
	1:00 - 1:30	Pre-RAB Finalization	<i>(Information)</i>	Todd
Haverkost				
	1:30 - 3:30	Corrective Measures Study Procedure to Present to RAB	<i>(Decision)</i>	Johnny Tapia/ Tony Hunt/ Todd Haverkost

**October 9, 1996**

	8:00 - 8:30	Post RAB Meeting Critique		Todd Haverkost
	8:30 - 10:00	Fast Track Cleanup	<i>(Information)</i>	Paul Bergstrand
	10:00 - 10:15	Break		
	10:15 - 10:45	Methods for Cleanup Evaluation	<i>(Information)</i>	Brian
Stockmaster				
	10:45 - 11:15	IM Status	<i>(Information)</i>	Brian
Stockmaster				
	11:15 - 12:00	Academia Involvement	<i>(Decision)</i>	Tony Hunt
	12:00 - 1:00	Lunch		
	1:00 - 2:00	Base Condition of Property Map	<i>(Decision)</i>	Daryle Fontenot
	2:00 - 3:00	Status of BCT	<i>(Discussion)</i>	Cecile Lacey
	3:00 - 3:15	Break		
	3:15 - 3:30	Next Meeting		Todd Haverkost
		Date, Time, Place and Leader		
		Set Agenda		
		Review Action Items and Parking Lot		
		Set September Conference Call		
	3:30 - 4:00	Close-out and Wrap-up		Cecile Lacey

**Naval Base Charleston  
Environmental Cleanup Project Team  
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12:00 - 1:00	Lunch		
1:00 - 1:30	Pre-RAB Finalization	<i>(Information)</i>	Todd Haverkost
1:30 - 2:30	Corrective Measures Study	<i>(Discussion)</i>	Tony Hunt/ Todd Haverkost
2:30 - 3:30	Base Condition of Property Map	<i>(Decision)</i>	Daryle Fontenot

*October 9, 1996*

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2:30 - 3:00	Close-out and Wrap-up		Cecile Lacey

**CNAV PT Process Meeting 22, 23, (24) October 1996**

Unofficial Agenda  
Tuesday, 22 October

10:00 am Meeting Begins

Welcome

MBTI; Should the PT use this. - Decision Paul

Technical Issues; ECO Risk Assessment. - Doyle

Vitrification; Explain to RDA long term process? Discussion Paul

12:00 Lunch @ Andy's Deli on 7260 Parklane Road (1 hour)

Mission, Vision and Goals

Other Topics? • BCP ABSTRACT

5:00 pm Meeting Ends • BCT ROLES & RESPONSIBILITY

6:30 pm Dinner @ Columbia Brewing Company on 931 Senate Street

Wednesday, 23 October

8:00 am Meeting Begins

Process Review

ERMA Letter

\*

12:00 Lunch @ Little Pigs on Alpine (1 hour)

Process Review

\* RFI - CMS STATUS SCHEDULE

\* SWMU 39

5:00 pm Meeting Ends

6:30 pm Dinner

Thursday, 24 October (optional)

8:00 am Meeting Begins

Process Review

\*

\*

11:30 Lunch (1 hour)

Wrap Up

2:00pm Meeting Ends

From: Bobby Dearhart

Subj: NAVAL BASE CHARLESTON PROJECT TEAM AGENDA FOR OCTOBER

1. Attached is the agenda for October 8th and 9th PT meeting. The agenda was developed from the September
2. The following discussion items were suggested from the September PT meeting but were not able to be incl  
MBTI results  
97 Project Execution  
DRMO Status  
Dependent on items to be discussed on October 7th, there may be time to address the above.
3. Also attached is the schedule proposed from the September PT meeting showing three days of meetings. Da
4. Note that the PT meeting will be held at the Naval Reserves Readiness Center at the Cummins Industrial P

Thanks,  
Bobby Dearhart

Distribution:

Dave Backus	Daryle Fontenot	Ann Ragan	Kevin Tunstall
Paul Bergstrand	Todd Haverkost	Brian Stockmaster	
Doyle Brittain	Tony Hunt	Johnny Tapia	
Bo Camp	Hayes Patterson	Paul Tomiczek	
Cecile Lacey	Joe McCauley		

**Naval Base Charleston  
Environmental Cleanup Project Team  
Meeting Agenda  
October 8 and 9, 1996**

Leader - Todd Haverkost  
Scribe - Bobby Dearhart

\* Naval Reserve Readiness Center @ Cummins Industrial Park on Leeds Avenue

October 8, 1996

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1:30 - 3:30	Corrective Measures Study Procedure to Present to RAB	(Decision)	Johnny Tapia/ Tony Hunt/ Todd Haverkost

October 9, 1996

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	Date, Time, Place and Leader		
	Set Agenda		
	Review Action Items and Parking Lot		
	Set September Conference Call		
3:30 - 4:00	Close-out and Wrap-up		Cecile Lacey

**ISSUES FOR PRE-RAB DISCUSSION**

The following items were discussed as Pre-RAB issues at the September PT meeting.

Interim Measure Site Visit  
 Chicora Tank Farm  
 SWMU 39 and Off Base Sampling Results  
 Property Transfer Availability  
 Corrective Measures Study Review (Note that this is a PT agenda item)  
 Training for RAB members  
 Outline Responsibilities of Base Closure Process  
 Project Status Sheet

**Team Actions to Prepare for PT Meeting**

- Be prepared to address Action Items
- Review Cecil Field Mission and Vision document
- Review EPA CMS Guidance Document - *OSWER GUIDANCE*
- Review EPA 230/C2-89-C42 Cleanup Standards Guidance Document
- Review Proposed Changes to Environmental Condition of Property Map [EPA/State]

NAVAL BASE CHARLESTON  
 PROJECT TEAM

SCHEDULE

*First Day: Monday*      *BLOG. 30*

10:00	PRE-RAB Discussion	Lunch	RDA Meeting	IM Scoping
		12:30	1:30	3:00

*Second Day: Tuesday*

8:00	Project Team	Lunch	Project Team	Break
		12:00	1:00	3:30

*Third Day: Wednesday*

8:00	Project Team	Lunch	1:00	Project Team	Until
		12:00			

PT MINUTES

November 3, 1996

NAVAL BASE CHARLESTON  
ENVIRONMENTAL CLEANUP PROJECT TEAM

From: Bobby Dearhart

2 1996

Subj: FINAL OCTOBER PT MEETING MINUTES

Encl: Naval Base Charleston Cleanup Project Team Meeting Minutes for  
October 8 and 9, 1996

1. Enclosed are the final minutes from the October 8<sup>th</sup> and 9<sup>th</sup>, 1996, PT meeting.  
All comments that were received have been incorporated.

BOBBY DEARHART  
SCRIBE

Distribution:

~~Dave Backus~~ /

Paul Bergstrand

Doyle Brittain

Daryle Fontenot

Todd Haverkost

Tony Hunt

Hayes Patterson

Ann Ragan

Brian Stockmaster

Johnny Tapia

Paul Tomiczek

Kevin Tunstall

Cecile Lacey

# Naval Base Charleston Project Team Meeting Minutes October 8 and 9, 1996

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List of attendees is attached.

Todd opened the meeting. Cecile read the ground rules.

Bobby passed out the final August PT meeting minutes and the Draft September PT meeting minutes. Review of the September minutes were requested to be completed by 10/18.

## Review of Parking Lot From 9/10 & 9/11 and Agenda Changes

The following were left on the September Parking Lot:

(items marked through were considered complete by the PT and needed no additional discussion)

- Results of PT comments on Fast Track with an action plan
- Zones D, F, and G preliminary results
- ~~How to execute \$7.5M budget~~
- ~~Specify characteristics of "Due Diligence" for UXO search~~
- Distribution of background organics technical memorandum and schedule a

discussion

The following changes were made to the agenda:

- Add Conflict Resolution to 10/8
- Move Base Condition of Property Map, Zones D, F and G Preliminary Results, Mission and Vision Statement, and Fast Track to 10/9.
- Place BCT Status on Parking Lot and reduce time for Academia Involvement

In reviewing the September minutes, Brian asked if the UST guidance for TPH could be incorporated now at IM sites that are in progress? Johnny replied yes that the guidance could be used now, but a letter must be sent to the State stating that the UST guidance will be used from now on as the new approach for the IMs at petroleum contaminated sites.

Ann asked the PT if John Litton (DHEC manager on Tier II) could sit in the meeting on 10/9.

***Consensus passed.***

Action Items from September PT Meeting

Status of the action items listed in the September meeting minutes was provided as follows:

ACTION FROM SEPTEMBER PT MEETING	STATUS
1. Brief the Mayor of North Charleston on SWMU 39	Action completed 9/10
2. Meeting on Chicora Tank Farm status with State	Reschedule until after 10/11. Meeting delayed until A/E contract award
3. Presentation to PT on Chicora Tank Farm status for RAB	Completed 10/7 during Pre-RAB meeting
4. Contact Lillian Mood for assistance with PT communication with the public	Complete. Will meet with PT if requested.
5. Propose date for IM site visit	Complete. Tentative dates are 10/28, 10/29, 10/30
6. Provide CMS presentation	Reschedule to November PT meeting.
7. Review CMS guidance document for discussion	To be discussed on 10/9
8. Determine if public meeting will be held concerning SWMU 39	Complete. Public meeting held 9/26.
9. Propose CMS site groupings	Complete. To be discussed 10/9.
10. Review Condition of Property maps for comment	Scheduled for review 10/9.
11. Review EPA guidance (230/C2-89-C42) on Cleanup Standards	Scheduled for 10/9.
12. Provide copies of EPA guidance (230/C2-89-C42) Cleanup Standards to team members	Complete.
13. Review Cecile Field Mission and Vision document	Scheduled for 10/9.
14. Review Corrective Action Plan ??????	Deleted. Considered covered in Action Item 7.
15. Add discussion of permits to October RDA meeting	Complete. See discussion below.
16. CSO talk to DHEC on status of existing Navy permits	CSO was contacted. CSO has not discussed with DHEC. A new action added for November.

Action 15 - Permits were discussed at the 10/7 RDA meeting. RDA does not have the ability to track permits. Lease restrictions are not adequate to enforce the permit requirements. CSO also does not have the manpower to enforce. Companies are trying to push DHEC to issue permits. RDA is responsible to ensure leasees obtain proper permits for operation. Brian asked whose liability? Ann stated that it could be the Navy's as owner. Doyle stated that the Navy shares liability as long as they own the property.

## Conflict Resolution

Cecile made an observation that the PT was obviously going through several conflicts and considered it important to the PT that these issues are resolved prior to the PT being able to move forward. The PT agreed to work on resolutions.

Cecile reviewed Conflict Resolution with the PT:

There are three basic forms of conflict:

(1) **Goals Conflicts**

- Parties have incompatible goals.
  - Each party's goals threaten goals of the other.
- Resolution: Reconcile the ambitions of the parties.

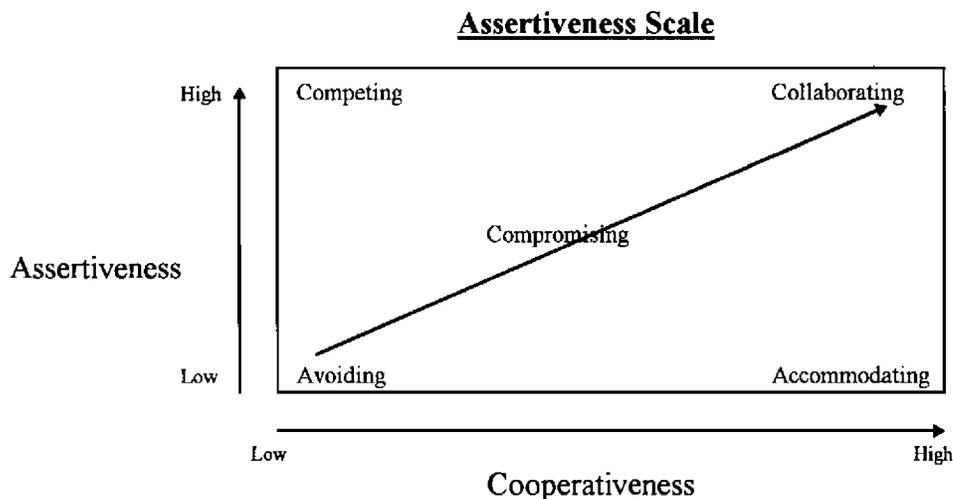
(2) **Judgment Conflicts**

- Parties differ over factual or empirical issues.
  - Parties agree on the goal but not on how to attain it.
- Resolution: Combine information and insights to form a conclusion that meets the needs of both parties.

(3) **Normative Conflicts**

- One party evaluates the other on the basis of how he/she should behave.
  - Plays to our notion of justice, equity and values.
  - Triggers emotional reactions of blame and anger.
- Resolution: May require an apology from the violating party.

Goals Conflicts and Judgmental Conflicts can be handled in a team type atmosphere. Normative Conflicts are not team issues and should be resolved outside of the team.



- ◆ **Avoiding** - Nothing is happening
- ◆ **Accommodating** - “Fine - do it” may work short term. Satisfy other person at expense of own.
- ◆ **Competing** - This is the way is s got to be.  
No consideration of other person’s concerns.  
Own concerns - nobody else’s
- ◆ **Compromising** - Balance - all concerns not satisfied.
- ◆ **Collaborating** - *BEST* - Both sides agree on the problem.  
There is cooperation to listen to the other side.  
All facts are presented by both sides.  
Satisfies concerns of both parties.

Cecile considers the PT may be at the LOW corner of the Assertiveness Chart. Several members of the PT have identified conflicts. A “Ground Rules for Conflict Resolution” was handed out.

Cecile continued that the PT was still young with different personalities and different responsibilities. These were all put together suddenly with “here’s your goal”.

There are four stages in team building -

- ♣ Forming
- ♣ Storming
- ♣ Norming
- ♣ Performing

The PT has been through the “Forming” stage and now is in the “Storming” stage. With the identified problems the PT must go through a Conflict Resolution. Everyone must be honest and not talk around issues.

Is there a single conflict that can be addressed? The PT members provided the following conflicts:

- Meddling from Tier II or above
- Lack of trust of PT by Tier II
- Problem setting schedules and sticking to them
- Team does not benefit from learning curve; repeat mistakes
- Lack of clear goal
- Resort to personal attacks versus resolving the issues
- Disconnect between Partnering and compliance/enforcement
- Threat of an enforcement action
- All team members do not own the products
- Last PT meeting comments from Doyle regarding not meeting schedules with possible enforcement action
- Repetitive comments on documents
- Use of PT’s time:
  - Too much wasted time
  - Issues raised that do not affect team as a whole
- PT needs to be more work oriented
- PT members not bringing issues to the PT

- Too much process, not enough work done
- Process disruption of Navy may be leading to anxiety
- Too much paperwork
- Workplans too process oriented versus goal oriented

Cecile asked if these could be condensed into a single conflict. Doyle stated that the PT does not have a clear goal. Bobby stated that all of these conflicts cannot be rolled into a single category since they are so varied.

Bobby also stated that three individuals on the PT have been targeted by Tier II as creating problems and these individuals were discussed in the last Tier II meeting. He also pointed out that Tier II members had stated that NAVSEA (the DET's parent command) had shown displeasure with a certain PT individual's performance. Bobby identified that there is no NAVSEA representative on the Tier II team and that any criticism would have come from him. This has not happened and Tier II should address this.

The following Alternatives/Solutions were identified by the PT:

- Develop Mission and Vision Statements
- Team to express displeasure with Tier II
- Recommendation to Tier II that team does not have a Link
- Actively take ownership
- Keep PT informed and involved
- Schedule working sessions
- Clarify priorities
- The State to review, within DHEC, ways to expediate workload

It was identified that John Litton (DHEC Tier II) will be sitting in the meeting on 10/9 and that Joe McCauley and Pat Franklin (SOUTHDIV Tier II) will also be present. Todd stated that Dr. Jim Speakman (EnSafe Tier II) was in town and he would like him to be present also. Team agreed to address issues with Tier II on 10/9.

Due to several PT members need to attend a meeting with the RDA, the meeting was adjourned until 10/9.

The following visitors were present for all or portions of 10/9 meeting:

- John Litton (DHEC)
- Jim Speakman (EnSafe)
- Pat Franklin (SOUTHDIV)
- Joe McCauley (SOUTHDIV)

### Review of Remaining Agenda Items

Paul felt the PT should address Base issues

Brian felt the PT should finish the Conflict Resolution

Doyle also felt we should complete Conflict Resolution but also stated that Fast Track should be addressed. He is under pressure from his management to show progress at the Base. They are asking what actual progress has been made?

***Consensus was passed on the following agenda for 10/9:***

8:30 - 9:00 Tier II (Pat and Joe have issues to address)  
9:00 - 9:30 Post RAB Critique  
9:45 - 10:30 Conflict Resolution  
10:30 - 11:30 Zones D, F, and G 30% Progress Review  
11:30 - 12:30 Base Condition of Property Map (working lunch)  
12:45 - 3:00 Fast Track Cleanup and CMS  
3:00 - 3:30 Next meeting and wrap-up

**Tier II**

Pat Franklin stated that Tier II is concerned about progress by the PT at Charleston. She passed out a memorandum from the Environmental Restoration Management Alliance (ERMA) Region IV requesting that the Charleston PT address several questions concerning progress and actions to be taken to improve progress.

**Todd has action to pull together status of work for discussion at the October 22 meeting in Columbia. ECD 10/16.**

It is important to resolve these issues by the first of November to support Doyle in preparing for an internal EPA audit.

Joe McCauley discussed the changes which are going into effect at the Tier II level. Basically Tier I and Tier II are being restructured to reduce the stress on the States. Tier II will become State specific. There will be a new Tier III joint services/states/EPA meeting in December. Joe McCauley has been directed to be removed from the Tier II and as the Tier II link for Charleston to participate in Tier III. We will get a new Tier II to Tier I link which will be assigned by Tier II. Joe was questioned on whether our PT could have any input to the selection of the Tier II link? Ann stated that she had a list of all of the Tier II members that she would pass out for consideration. Joe stated that this is not the usual way this is done.

Before Joe left, Ann had a question that needed to be addressed. She had been told that the Tier II meeting in September had targeted individuals on the Charleston PT as being disruptive to the meeting preventing progress. Joe stated that that Tier II had discussed Ann as being a Tier II link but no personal attacks. Bobby interrupted and asked Joe to stop dancing around the question. Bobby directly asked if Ann, Doyle and Bobby had been pointed out at the Tier II meeting as being disruptive and unprofessional. Joe stated yes. Both Ann and Bobby stated that this was highly unprofessional to discuss individuals in a group of colleagues in such a manner without notifying the individuals first. Joe was also questioned on where this was coming from since our

Tier II link is never present. Joe stated that it is coming from the facilitators report. Cecile stated that she had not passed on such information.

Bobby then asked Joe about a statement passed on that NAVFAC and NAVSEA were very unsatisfied with Doyle’s performance. Bobby had to ask three times before Joe would admit that this was true. Bobby then questioned Joe on who the NAVSEA representative was on Tier II because he knew of none. Joe stated that there was no NAVSEA representative, but that Admiral Delaney (Regional Environmental Coordinator) who has a representative on Tier II represented all Navy activities in the area. Bobby stated that NAVSEA was misrepresented and that it would be taken up his Chain of Command. Bobby made a final statement that it seemed that the only time that the PT seems to have problems is when the Tier II link (Joe McCauley) comes to the meeting.

Post RAB Critique

The PT provided the following observations from the October 8<sup>th</sup> RAB meeting:

PLUS	MINUS
<ul style="list-style-type: none"> <li>• Good information from Doyle on audits</li> <li>• Tony’s presentation GOOD - “no threats”</li> <li>• Pre-prep working</li> <li>• Good support from Doyle on private environmental investigations</li> <li>• Comments from Doyle on Bldg 9</li> <li>• Improvements</li> <li>• Doyle focused response on team and quality concept</li> <li>• Location due to follow-up to SWMU 39</li> <li>• Public comments positive on Tony’s presentation</li> <li>• More concise in presentations</li> <li>• Critique is good</li> </ul>	<ul style="list-style-type: none"> <li>• Poor location</li> <li>• Meeting room set-up</li> <li>• Meeting seemed one-sided; little room for questions; need to ask throughout for questions</li> <li>• Chicora Tank farm information copied for nothing</li> <li>• Overheads were ineffective; not visible</li> <li>• Disappointed in community involvement/representation</li> <li>• Disappointed that press did not have closure with SWMU 39</li> <li>• AOC 670 not mentioned; had great prep time</li> <li>• List of constituents not qualified in terms of risk</li> <li>• Change in meeting format may limit interaction</li> <li>• Present upcoming IMs</li> </ul>

Cecile’s review:

- Don’t speed up presentation. Need to ensure RAB members are comfortable.
- Advance reports will direct presentation. Less room for adjusting.
- Items of interest from RAB/audience. Give them time to develop their thoughts.
- Word selection in presentations important. “I think” and “we should” shows lack of confidence. Be more positive and affirmative.

Cecile was concerned that no action at the RAB when she is present. It all happens when she is not present. ***Consensus passed that Cecile can not miss any more RABs.***

### Zones D, F, and G 30% Progress Review

Craig Smith and Amey Stehlin from EnSafe came to provide a 30% Progress Review for Zones D, F, and G. A progress report was mailed to each PT member prior to the meeting as well as a handout provided at the meeting.

Todd stated that the 30% progress reviews were an effort to beat the CAMP schedules and allow work on the RFI to proceed.

Craig stated that soil data would be available beginning mid-October (unvalidated). Well sampling is scheduled to begin October 21<sup>st</sup>. Site surveys will begin by the DET around the 21<sup>st</sup> of October also.

The handouts show:

- status of each site
- not all wells installed and developed
- soil samples not all taken

Note - When stated that no deviations have occurred, it refers to the sampling strategy in the RFI workplan.

AOC 619 - no deviations. Brian asked if the sediment samples were taken in catch basins? There is an IM for the DET to clean out the catch basins. These are not being cleaned - only catch basins in Zone E are being accomplished as an IM. Brian concerned over doing duplicate work. **Kevin has action to review all Zone E catch basins in the IM and determine if any duplication exists. ECD 11/12.**

AOC 620 and SWMU 36 - no deviations. All samples not yet taken. Inside samples are difficult to take due to slab.

SWMU 109 - No deviations. All sampling is complete. This was an IM but the State and DET say there are no known problems. No results of sampling available yet.

AOC 607 - Collected original three samples. Added a fourth.

AOC 609 - Able to locate WOT due to DET removal and report. Metals detected - arsenic/lead. ***Consensus passed to relocate the original four sample locations based on the actual location of the WOT. Consensus also passed for two additional soil sample locations.***

AOC 611 - Complete. No deviations.

AOC 613 and 615 - Screening complete.

AOC 616 - No deviations.

AOC 617 - No deviations.

AOC 628 - This is the DET OWS site. It is a bermed area covered with plastic. DET will look at sampling in the bermed area. ***Consensus passed to collect soil samples at the four corners and evaluate the data to determine if the center sample underneath the tank was necessary.***

AOC 633 - SCE&G representative at site told field crew that the proposed sample locations were near switch gear as opposed to the spill area. SCE&G said they removed the soil and backfilled. ***Consensus passed to move the original seven sample locations to provide coverage of the actual area of the release/soil removal.*** The sediment samples are taken to augment the Zone J investigation. Dave and Paul questioned what the cement pits were? No one was familiar with them. **Tony has action to determine purpose and history of the cement pits around AOC 633. ECD 11/12.**

Doyle made a comment that the deviations agreed to shows the importance of the 30/60/90 % reviews. They allow decisions to be made and progress to continue. The zone reports must document these deviations however.

AOC 634 - The sediment samples have not been collected yet but are in support of AOCs 633/634/706.

AOC 638 - Minor deviation. Possible UST at site. ***Consensus passed to move a shallow well to be installed approximately 25 feet to the north, downgradient of the suspected UST at Bldg 132.***

AOC 642 - Complete with no deviations.

SWMU 8, and AOC 637 and 636 - A munitions search was conducted at bore sites. Based on surveys 6 to 8 feet deep, no munitions found. Doyle asked if there had been sufficient data collected to clear the site from munitions or will it take additional work? Only the sample bores have been surveyed. A sweep of the total site has not been accomplished. This sweep will need to be accomplished to support the IM at SWMU 8. **Kevin has action to provide the methodology to be used at AOC 636 to locate possible munitions. ECD 11/12.**

SWMU 11 - Samples have been taken. Sediment samples will provide input into what is being carried from the site to the wetlands. Doyle referred to the Geraghty and Miller Report (1982) that stated there was 12"-18" of calcium hydroxide formed under the SWMU. This report needs to be confirmed or denied.

SWMU 120 - Complete. No deviations.

AOC 643 - All but one sample has been collected.

SWMU 3 - Sampling complete except inside wells not installed.

SWMU 6 and 7, and AOC 635 - Brian asked how will the sample results tie into the IM. Per Todd there are well over 100 samples at this site. IM should be based on the 1993 results. The new samples are basically confirmation samples. EnSafe will coordinate sampling with DET.

AOC 646 - No samples yet.

AOC 706 - Samples complete. No deviations.

Fuel Distribution System - Cone penetrometer is being used for screening. Approximately 115 of 135 pushes are complete. The remainder are in bermed areas hard to get. Will probably use the DET with hand augers. Paul asked if this included the JP-5 line near SWMU 13? Todd stated that that was not being looked at here, but is part of the SWMU 13 investigation.

AOC 607 - Former dry cleaning plant. This site has expanded since the workplan was developed. Craig pointed out where chlorinated solvents had been detected. ***The following changes passed consensus by the PT: (1) Six soil boring locations to confirm the source and extent of the soil contamination with two intervals sampled at each location; (2) An additional soil sample to be collected inside Bldg 1189; and (3) Locations for six shallow monitoring wells, four intermediate wells and five deep monitoring wells.***

Todd emphasized the importance of getting the well permit requests to DHEC ASAP and allowing 48 hour notification to the local DHEC office.

AOC 613 and 615- Groundwater exceedances and soil exceedances for metals was discussed. Volatile exceedances were discussed. ***Consensus passed by the PT on the following items: (1) A zone specific background would be accessed prior to specifying any additional samples; (2) To expand the sampling grid to include SWMU 175 with AOC 613 and 615 due to close proximity and similar expected contaminants which will speed up the process; (3) To accept soil analytical data collected during screening (Level III with Level IV QA) for the purpose of confirmation and delineation; (4) That the proposed SWMU samples (10 soil) are not required; (5) To use existing GEL wells (all new samples) and install four additional wells to supplement data which reduces the overall number of wells to be installed; and (6) SWMU 175 will be combined with AOC 613 and 615 for the purpose of the RFI.***

Doyle asked how were we doing on time and schedule and if there was anything that the PT could do to help push this along? Craig responded that the 30% review this month has helped put the Zone D, F, and G RFI ahead of schedule.

#### Base Environmental Condition of Property Maps

Daryle passed out several copies of the modified Base Condition of Property maps. He presented the approach for evaluation by reviewing the different environmental programs (asbestos/UST/RCRA) and developing maps for each. These maps were then combined with the worst category identified on a single re-colored map. The notebooks that were passed out provided a matrix of each facility and how it ranked with each program. This is important in that NAVFAC management does not see any accomplishments at Charleston since the color changes are what they use to gage accomplishment. By October 25<sup>th</sup> the BCP abstract must be updated which only lists number of acres for each category of transferability.

The maps presented contained six of the seven color (except Category 1 white) categories of Category 2 through 7. Paul was concerned that this doesn't agree with the previous PT agreement. The State and EPA agreed that property could be red, yellow or gray. The blue and greens would not be assigned until after the approved RFI reports are issued. Ann asked if this was conditional concurrence that property could be transferred? Bobby replied that a FOST still must be generated and approved. Doyle stated that if the maps changed then the RDA would expect property to be transferred.

Daryle explained that based on the information at hand that the property should be able to be changed to these colors. However he only wanted to show this to the PT now and obtain input on what colors (red, yellow, gray) the blue and greens should be now. Daryle continued that he was recommending Clouter Island to be changed to Light Green since there was no investigation (except the sites identified) in the material disposal area and that it had been transferred to the ACOE.

**Consensus passed on the following items: (1) Change Clouter Island to Light Green [#3]; (2) Change all Blues [#2] back to Gray [#7]; (3) Change all Green, both light and dark, [#3 and #4] to Red [#6]; (4) All IM sites will be changed to Yellow [#5]; and (5) Any areas where work is being accomplished in any environmental program will be Yellow [#5].**

This equates to the following:

- ≈ 400 acres RED
- ≈ 1000 acres GRAY
- ≈ 1300 acres LIGHT GREEN
- remainder YELLOW

Bobby discussed the conservatism used in the original approach to color almost everything Gray since the RFI was beginning and there was no indication of the condition of groundwater. This is not the approach used by many bases and therefore they show much more acreage moving towards transfer. John Litton asked Daryle if this was the method that was being used as an evaluation of progress? Daryle replied yes.

### Fast Track Cleanup

Paul summarized the Fast Track ideas provided by the PT. The goal was to focus the group's opinions as to what Fast Track is so it could be brought into focus to move forward. Where will all of this lead us - Putting people out of work (BCT, RDA, RAB, etc). The responses varied widely and are summarized below with the respective questions:

1. What is Fast Track?

Everyone responded in terms of "TIME":

- Speed up process
- Less time to cleanup
- Transfer property faster

2. What Fast Track is not?

- Following a process
- Taking a risk
- Stop being totally safe
- Easy

3. Examples covered a wide span

Time line - 6 - 8 years DoD funding/BRAC 3 years into process

Since there are varied ways of tracking accomplishments it is hard to tie them together:

- State - number of wells installed
- DET - number of IMs accomplished
- SOUTHDIV - amount of property transferred

4. What are the obstacles to Fast Track?

- Lack of a common goal

- No buy-in
- Miscommunication
- Too much work - overload
- Different means of measurement (metrics)
- Lack of trust
- Too much process
- Same objectives but must focus

Obstacles became diverse, hard to define the problem.

5. How do we improve?

- Agree to goals
- Accept risk (making decisions, too conservative, early buy-ins)
- Set cleanup goals
- Fewer meetings
- More open communication
- Firm decisions - do we have enough data to make decisions
- Educate RAB/RDA on cleanup standards
- Focus on reviews
- Parallel reviews (work CMS/IM while RFI report is in review)
- Walk through a site/document with normal process
- Develop trust

Ann asked how will educating the RDA/RAB help Fast Track (speed it up)? Paul replied that the RDA is a driving force behind some of our decisions. Educating them on Risk and transferring property unencumbered will help.

Doyle stated that the Time-line didn't start at operational closure, it was at the identification of closure.

6. How do you feel about a two day meeting?

Predominantly - Yes

Is there something the PT can do about obstacles?

- No goal - YES
- No buy-in - YES
- Miscommunication - CAN WORK ON
- Overload - MAY BE ABLE TO REDUCE
- Process - POSSIBLE
- Cut down on process - CAN WORK ON
- Different metrics - YES
- Lack of trust - MUST BE DEVELOPED

What are some ideas on making Fast Track work?

Ann - recommended that the answer to the Tier II ERMA request will cover our issues and could be combined into a 1 - 2 day work session.

Doyle - Two days together to walk through a CMS will be very beneficial vice reviewing a potentially bad document

Todd - eliminate overload/backlog; streamline the CMS process

Brian - have a two day meeting; come to unified goals, and work through the procedural processes

Kevin - open communication (more often/more frequent; call for info/feedback)

Tony - define/improve metrics; sit down at table and review documents

Dave - revise the way the team does business (mixing partnering with working session)  
revise meeting process (process versus issues)

Paul - set goals including metrics (don't deny individual success but come together with the team in mind)

***Consensus passed that a PT two day meeting would be beneficial.*** Ann stated that if it would reduce the process discussions during PT meetings then it would be beneficial. It was agreed that a PT meeting would be held in Columbia on October 22<sup>nd</sup> and 23<sup>rd</sup> with the 24<sup>th</sup> open to continue beginning at 10:00. The State will come up with a meeting place.

### CMS Process

Robert Mosser from EnSafe provided an overview of the CMS process. A handout was provided.

CMS Process - use nature and extent to determine what process/technology will be used.

CMS can be grouped by zones or sites based on site characteristics/contaminants/media.

Contaminants are the drivers as to whether a CMS will be conducted or not.

Basically a CMS involves the following steps:

- (1) Prescreening (RFI)
- (2) RFI Report presents basis for conducting a CMS
- (3) CMS workplan
- (4) CMS
- (5) CMS report
- (6) CMI
- (7) Closure report

At Naval Base Charleston we are in the first step “Prescreening” preparing for the second step.

Consensus was tested whether to have Robert at the meeting in Columbia on 10/22 and 10/23. Consensus failed with the explanation that the meeting is for process not details.

### Conflict Resolution Wrap-up

Cecile reviewed the Alternatives/Solutions developed on Tuesday and where we are:

- ♣ Develop Mission and Vision Statements - *Yes will come about*
- ♣ Team to express displeasure with Tier II - *Partially accomplished 10/9*
- ♣ Recommendation to Tier II that team does not have a Link - *Potential input to who it will be*
- ♣ Actively take ownership - *Can start/needs to start now to build trust*
- ♣ Keep PT informed and involved - *Open up active communications*
- ♣ Schedule working sessions - *Scheduled a working session*
- ♣ Clarify priorities - *Started clarifying priorities (Doyle & audit; Daryle & maps)*
- ♣ The State to review, within DHEC, ways to expediate workload - *Follow-up*

Cecile’s observations of airing concerns with Tier II:

- DET follow-up with command on who represents them on Tier II
- November PT meeting let PT know of representation

Ann recommended that the DET be represented at the State Tier II meeting. Bobby asked if she could discuss this with Tier II and based on the outcome of that discussion will address.

- Must keep the team informed of what Tier II representatives are saying. Helps develop trust through open/honest communication.
- Trust cannot be dictated but must be earned.
- Cecile will provide a copy of her written evaluations that go to Tier II. PT consensus was tested and failed. Ann requested that she be given a copy. Cecile agreed.
- Team ownership is starting to show (ie not Daryle’s map, the PT’s map)
- Doyle has made himself available and wants to be involved up front
- Tony ‘s issue with Zone J has been discussed between Doyle and Todd

John Litton made an announcement that the State is filling an engineering position (RCRA) that will be dedicated to Naval Base Charleston. This should help the process move along.

### Cecile’s Evaluation

Accomplishments:

- ♥ worked out conflict resolution
- ♥ reviewed 4 steps to team building, identified where PT is - in perspective “Storming”
- ♥ open communication lead to resolution of IM concerns
- ♥ team scheduled extra time for RAB preps that paid off

- ♥ team agreed to extra meeting for ERMA requests
- ♥ openly expressed concerns through Tier II link
- ♥ adjusted agenda due to time conflicts - prioritized important issues
- ♥ reached consensus on further investigations
- ♥ reached consensus on updating Environmental Condition of Property map
- ♥ identified obstacles to Fast Track and agreed to meet to resolve

Suggestions for Improvement:

- ♣ Team membership dedication and resistance to walk out the door at uncomfortable times. Observation - cohesive group/work together
- ♣ Time conscienceness - "Gate Keeper" propose reconsideration to keep team on track. Remind that time is slipping by. Also meets guests.
- ♣ Not identifying meeting objectives for agenda topics - refer to August minutes. Need to make an effort to briefly identify objectives of agenda items. Must review identified documents to keep time down.
- ♣ Recommend reading Ground Rules at the beginning of each day to keep the Ground Rules in focus.
- ♣ Need to keep tele-conference open when extra meetings are not planned - helps communicate
- ♣ MBTI Results need to be submitted. Willing to do if there is a PT consensus. This helps team building and understanding members.  
Must agree that PT members type can be discussed and shared.  
Need to let Cecile know by the 10/22 meeting in Columbia if the PT is interested in doing
- ♣ Need Skills Assessment from all PT members
- ♣ Lessons learned - Suggest discouraging other meetings during PT meetings (ie meeting with RDA)
- ♣ Need to do better job with lessons learned. Remember what has been approached.
- ♣ Empowerment - not an issue. Per John Litton (Tier II member) Tier II wants to resolve issues at the Tier I level.
- ♣ The 2-3 day meeting will be on the process of how to get things reviewed. Suggest that also a brief revisiting of the Partnering Process be done. Could lead into the Mission and Vision statement. May want to wait until new Tier II is up and running.
- ♣ Recommends Process Training for team building in the future. Takes 2 days dedicated.
- ♣ Try not to schedule technical presentations at the end of the day. Makes it very hard to concentrate on what is being presented and is not fair to the presenter.
- ♣ Need a team leader for October 22/23/24 meeting. Recommend Paul since Fast Track will be the main topic and he is familiar with what has been provided by the team members.

Paul agreed to be the team leader for the October 22/23/24 meeting in Columbia. Paul and Ann will determine the location of the meeting and will provide a list of hotels/motels in the Columbia area for consideration.

Brian will be the team leader for the November meeting. The following items will be on the agenda:

- 90% Zone E Progress Review	Dave	4 hrs	Information
- Background Organisms	Tony	1 hr	Decision
- Academia Involvement	Tony	45 mins	Decision
- Methods for Cleanup Evaluation	Brian	30 mins	Decision
- Logistics of reviewing Progress Report	Brian	30 mins	Decision
- Discuss Risk education for RDA	Paul	30 mins	Decision
- Environmental Programs Review (UST/asbestos/LBP, etc)	Daryle	1 hr	Information

The time and place will be provided at later date.

**Action Items From October 8<sup>th</sup> and 9<sup>th</sup> PT Meeting**

<b>ACTION</b>	<b>ECD</b>	<b>ASSIGNED TO</b>
1. Compile information for Tier II ERMA report.	10/16	Todd
2. Review information from Todd for Tier II ERMA report and prepare comments.	10/22	Team
3. Review all Zone E catch basins in the IM and determine if any duplication exists.	11/12	Kevin
4. Determine purpose and history of cement pits around AOC 633.	11/12	Tony
5. Provide methodology to be used at AOC 636 to locate possible munitions.	11/12	Kevin
6. Provide motel listing for Columbia meeting.	10/11	Paul
7. Provide location of Columbia meeting	10/11	Paul
8. Review Chapter 8 of Zone H RFI Report for CMS discussion at Columbia meeting.	10/23	Team
9. Provide Background Organics technical memo	10/11	Todd
10. Resolve permit issues with CSO/RDA	11/12	Daryle
11. Provide comments on Academia Involvement	11/12	Team
12. Review Cecil Field Mission and Vision statement	10/22	Team
13. Determine if MBTI results will be discussed.	10/22	Team

**Naval Base Charleston Project Team Meeting  
OCTOBER 8 and 9, 1996**

**Attendance Sheet**

<u>NAME</u>	<u>ORGANIZATION</u>	<u>PHONE</u>	<u>FAX</u>
Tony Hunt	SOUTHDIV	(803) 820-5525	(803) 820-5563
Brian Stockmaster	SOUTHDIV	(803) 820-7481	(803) 820-5563
Johnny Tapia	SCDHEC	(803) 896-4179	(803) 896-4002
Todd Haverkost	E/A&H	(803) 884-0029	(803) 856-0107
Kevin Tunstall	DETCASN	(803) 743-6777	(803) 743-9413
Bobby Dearhart	DETCASN	(803) 743-2821	(803) 743-0174
Doyle Brittain	USEPA	(404) 562-8549	(404) 562-8518
Ann Ragan	SCDHEC	(803) 734-4721	(803) 734-5407
Paul Bergstrand	SCDHEC	(803) 896-4016	(803) 896-4002
Daryle Fontenot	SOUTHDIV	(803) 820-5607	(803) 820-5563
Dave Backus	E/A&H	(901) 372-7962	(901) 372-2454
Cecile Lacey	Galileo (facilitator)	(401) 762-2391	(401) 762-2133
Dr. Jim Speakman	E/A&H		
John Litton	SCDHEC	(803) 896-4172	(803) 896-4002
Pat Franklin	SOUTHDIV	(803) 820-5691	(803) 820-5563
Joe McCauley	SOUTHDIV (Tier II link)	(803) 820-5500	(803) 820-7465
Craig Smith	E/A&H		
Amey Stehlin	E/A&H		
Robert Mosser	E/A&H		

NAVAL BASE CHARLESTON  
ENVIRONMENTAL CLEANUP PROJECT TEAM

November 11, 1996

From: Bobby Dearhart

Subj: FINAL OCTOBER PT MEETING MINUTES

Encl: Naval Base Charleston Cleanup Project Team Meeting Minutes for  
October 22 and 23, 1996

1. Enclosed are the final minutes from the October 22<sup>nd</sup> and 23<sup>rd</sup>, 1996, PT meeting.  
All comments that were received have been incorporated.

BOBBY DEARHART  
SCRIBE

Distribution:

Dave Backus

Paul Bergstrand

Doyle Brittain

Daryle Fontenot

Todd Haverkost

Tony Hunt

Cecile Lacey

Hayes Patterson

Ann Ragan

Brian Stockmaster

Johnny Tapia

Paul Tomiczek

Kevin Tunstall

# Naval Base Charleston Project Team Meeting Minutes October 22 and 23, 1996

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List of attendees is attached.

Paul opened the meeting.

Bobby passed out the final September PT meeting minutes and additional Draft October PT meeting minutes. Review of the October 8<sup>th</sup> and 9<sup>th</sup> minutes were requested to be completed by October 29. Bobby agreed to send hard copies of all draft minutes since some members were having trouble receiving them by electronic mail. ***Consensus passed that Draft minutes to PT meetings would be reviewed and comments provided by team members within one week of receipt. No response is agreement.***

## Topics to be Discussed

ERMA letter	CMS walkthru
Goal-Mission-Vision statement	Vitrification
Process review	MBTI
Fast track	Priorities
Perception of team by others	* Eco status - all zones
* RFI status and schedule	* CMS status and schedule
SWMU 39	Tier II meeting

\* indicates items that are EPA top priorities

## Overview of October Tier II Meeting

Ann provided an overview of the October meeting of the new Tier II. Items affecting the PT were:

- No links between Tier I and Tier II
- There will be a POC that serves a role of what the Tier I team requests
- Tier I will pick their own POC

There will be a Partnering training session January 22 - 24 for anyone interested.

Ann also has copies of the latest SC legislative bills/regulations updates for anyone who would like a copy.

## Eco Risk Assessment

Doyle requested a status of where the RFI reports were concerning the eco risk assessment?  
There are basically three phases:

- I - Initial survey walkthrough
- II - Literature search
- III - Samples / analysis

Todd stated that he views Phase II as literature search and sampling to establish the chemical constituents for performing a preliminary risk assessment to determine if the investigation should move on. The following status was provided:

Terrestrial - Phase II essentially complete for all zones that have reports submitted. This considers the same data points as human health.

Waterbodies - All chemical sampling is not complete therefore Phase II not complete.  
Zone J takes over from the other zones to give a complete picture.

At the end of Phase II a decision must be made - Have we established that there is a significant enough potential for risk to necessitate Phase III (ie tissue sampling)?

The EPA reviewers concerned that the reports don't discuss what effects the constituents have on terrestrial and aquatic. Both eco and human must be included to completely review a report. The Zone H report can't say there is no impact or can't design a CMS until the eco risk is addressed. Human risk can be / has been done. The weak link throughout the reports is the eco risk assessment. EPA's eco comments are the same now on Zone H as they were in October 1995. Doyle asked "How do we finish the eco risk assessment for Zones A, C, H, and I to be able to finish the report?"

Todd stated that he needs feedback to determine if the information now substantiates moving on. He wondered why EPA could not use the data that has already been provided?

Doyle considers that not enough hard data has been provided to show if there is a risk. To approve a report there must be enough hard measured bio data to show what is in the environment and what risk it poses. The reports now only predict that there is a risk.

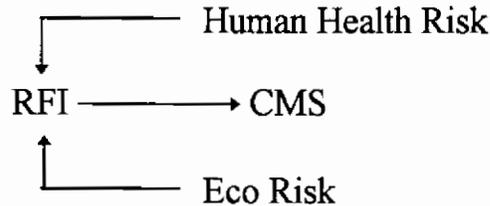
Daryle stated that Todd needs a decision to determine if there is a need to collect additional hard data to go to Phase III. Doyle agreed and added that it is a matter of timing, a decision should have been made prior to the RFI report, and the substantiating data submitted in the RFI report.

Paul summarized that a decision is needed. Is there potential for eco risk to require tissue sampling for the RFI reports to be complete?

Problem: EPA feels no bio data on eco risk ∴ RFI is incomplete.

Models predict potential for bioaccumulation or bioavailability  
Timing is a problem  
Terrestrial/aquatic - must be zone specific.

Todd stated that the RFI report provides input to the CMS. The ecological risk assessment is an element that is used in much the same context as the human health risk to determine if a CMS is needed.



It was agreed that Todd's logic is correct, but it should have been before the RFI report submittal. Todd added that the timing issue resulted from a disagreement that Zone J was to be a eco risk assessment workplan. An agreement was reached last October (1995) on what the scope of Zone J would actually include. The Zone H RFI report was prepared prior to the agreement so that the direction changes obviously could not be incorporated. Subsequently the Zone H RFI report was used as a model for the Zone B, C and I RFI reports.

Doyle requested that a meeting be held to determine what needs to be done to fix the Zone A, C, H, and I eco assessments in the reports. Joan Dupont will be present from EPA and representatives from the Navy, State and Ensafé who can make commitments should attend. The meeting will identify specific eco risk items that need to be fixed in each zone report. If this is accomplished the reports will be fixed. Doyle requested that Ensafé review all of the previous comments to ensure that all previous EPA concerns have been addressed.

Solution: Meeting in Atlanta on 10/30 @ 9:00 to fix eco risk problem for Zone A, C, H, and I RFI reports.

Attendees: Joan Dupont EPA  
David Trim & Todd Ensafé  
State  
Navy

**Action for Ensafé to review all previous eco risk comments from EPA / State. ECD: 10/30.**

Tony asked if the previous comments address all concerns? Doyle stated no, that all review comments and the reports need to be reviewed. This process is addressed in the Comprehensive RFI Workplan.

The question that must be answered - Is there a need to go to Phase III? If yes, To what extent?

Doyle asked when can field work be completed and data in hand be incorporated for the eco changes? Tony stated that this could be better answered after the meeting in Atlanta. Doyle

stated that the State and EPA clock for review of reports is stopped until this is resolved. Todd and Tony were requested to be prepared to speak to this at the meeting.

Todd proposed that the A, H and I RFI reports be conditional approved with a supplemental workplan/report revision to cover the eco. Johnny agreed to look into this based on the amount of work that comes out of the meeting in Atlanta. This may be a separate phase.

### Vitrification Process and the RDA - The AJT Proposal

There are several unanswered questions:

- Hazardous waste?
  - Solid waste?
- } Recycling or treating
- Hauling wastes into Charleston?
  - Storage of wastes?
  - Selling on use for cleanup of the Naval Base?

Paul concerned that the RDA does not really understand what this involves. Should the PT discuss potential concerns with the RDA? Ann stated that these concerns had been discussed with the RDA, but it is not sinking in, especially the permitting concerns. Johnny recommends that it be addressed with the RDA one more time. He also has concerns on whether the process treats or recycles. The State agreed that one more new industry meeting would be held with AJT.

It was agreed that this is not a PT issue, but a DHEC - RDA issue.

Tony stated that the Navy is interested in the process because of the potential for waste minimization, recovery of materials through recycling, and the reduction of long term Navy liability. The Navy is awaiting the results of the demonstration phase prior to making any decisions on use as a means of disposal. Tony provided the following on the status of the samples for the demonstration:

- 5 gallons from SWMU 5
- 5 gallons of building material and soil from SWMU 25
- 5 gallons from SWMU 54

TCLP results are:

- SWMU 5 TCLP failed for lead
- SWMU 25 TCLP failed for chromium
- SWMU 54 TCLP failed for lead

Still working on the contractual issues for shipping the materials. Tony stated that it doesn't come under the Hazardous Waste Regulations if it is less than 1000 kg and is being used for a treatability study. Tony is preparing a letter to obtain State approval to exempt the samples from Hazardous Waste Management for the treatability study.

Ann asked if the Navy had discussed the liabilities if problems happen after it gets to the treatability study site? Tony stated that this needs to be looked at. Tony is the POC for the technology, AJT interpretation of the regulations, etc.

Doyle recommended that the definitions for treatment of hazardous waste and sham recycling be reviewed in the regulations under 40 CFR 260/261. EPA is not going to be involved in the decision to use the treatability study. The question is how will the government get return on the investment? This process and the capital investment is expensive. EPA will not guarantee that this process will be used in the cleanup of the Naval Base. Ann stated that the sole investment is a DOE grant - no private investors.

### MBTI

Cecile asked if the PT was interested in going through the MBTI exercise? It is a good tool, shows members personalities, can better prepare presentations for members, identifies team dynamics and shows how decisions are made. Must have the PT consensus to go through the exercise. ***PT consensus passed to have MBTI at one session.*** Cecile stated that 2 hours would be needed.

### Work Schedules

Doyle provided a layout for presenting the RFI schedule and demonstrating accomplishments. The CMS process schedule will match the RFI process. Doyle asked if the PT sees this as helpful. Todd stated that sending documents directly to the EPA reviewers was a great improvement. Doyle explained that the documents should be sent directly to the EPA reviewers and Doyle should be notified; Doyle will e-mail the reviewers and establish the need; the reviewer will have 30 days to complete the review; and 2 weeks after review complete the PT will meet at the document approval meeting.

Johnny sees the document approval meetings as a helpful addition. This will help the team to keep on track. Doyle says as long as he understands and is involved in the need for date changes he has no problem. The 30/60/90 % reviews will help prevent surprises since all of the data will be shared with the PT. The question was asked what has to be done/occur prior to the 30/60/90 % meetings? The following were provided by the PT in order of priority:

- 1A - Provide an available data package to the PT members
- 1B - Provide status of field work to date (all field work may not be complete)
- 2 - Identify any deviations from the work plan
- 3 - Identify any problems that need decisions from the PT (These should be identified as they arise)
- \* 4 - Agree where field work is no longer needed
- \* 5A - Identify all areas where additional field work is needed
- \* 5B - Identify, only if applicable, if Phase III eco sampling is needed.
- \* 6 - Agree on schedule impact

7 - Do it (implement extra work)  
(items marked \* require PT agreement)

The following definitions for schedule activities were discussed:

Field work ends - This is important because it sets the Draft document submittal date. The permit requires that the RFI report is to be submitted within 90 days from the end of the field work. This will be set when the last analytical sample result is back from the lab. ***PT consensus obtained on this definition.***

Predraft review meeting

- PT review with others as deemed necessary
- Verbal summary of report
- Identifies what will be in the draft report
- Reviews any extra field work results

Considerations for developmental points include:

RBCs  
Pre-Preliminary Risk Evaluation  
HHRA  
Eco RA

Todd asked if this would be helpful to the regulators review? If it is he definitely wants to support it. Both EPA and State agree that it would help in the report review.

Draft document distributed - required within 90 days of end of field work

Doyle restated that he wanted the documents sent directly to the EPA reviewers and that they would be in their review for up to 30 days. EPA comments would be provided not later than 45 days. Johnny was concerned that 30 days may not be adequate with the number of documents that may be submitted in the same general time frame. Doyle expressed concern over the time that the regulators were taking with reviews because they are not happening. He stated that he was concerned with the State supporting the workload. Doyle will get Jon Johnston (EPA) to call the State (John Litton or Randall Thompson) to discuss and see if this problem can be resolved. Paul hopes that the 30/60/90 % reviews will help expedite the turn around of documents. Paul would like to have a 60 day regulatory review with the goal to beat the time. The following was agreed to by the State and EPA:

- Documents will be sent directly to EPA and State reviewers
- EPA will provide comments within 45 days of receipt of documents
- Navy/Ensafe will e-mail State and EPA when documents are sent
- State will review and comment within 60 days of receipt of documents
- Clock starts at delivery of documents

- EPA will sent comments directly to Navy in parallel to sending to State

Doyle stated that the reviews of documents during the December holidays need to allow 2 extra weeks.

Distribution of Draft documents for review will be:

Johnny (State)	Joan Dupont (EPA)
Paul (State)	Elmer Akin (EPA)
Fred Sloan (EPA)	Doyle [2] (EPA)

#### Document approval meeting

- PT reviews all comments
- PT agrees on responses to comments
- Final document can be approved with minor format changes
- Meeting to take place approximately 2 weeks after regulator comment submittal

Todd asked if change out of pages or revised sections was satisfactory instead of reproducing the whole document. ***PT consensus provided that change out of pages or sections was satisfactory unless the changes were excessive. This will be up to Ensaf to determine.***

For draft documents, the cover page and first page of each section will be marked Draft to assist in replacement of pages.

Distribution of Final approved document will be within 2 weeks after the approval meeting. Distribution for Final documents will be the same as for Draft documents with the following additions:

- Add DHEC District Office
- Add DET

It was re-emphasized that the dates on the schedule are dependent on the “end of field work”. The Draft document is due at the “end of field work plus 90 days”. Doyle stated that the presented schedule was very full and aggressive and hoped that the PT would do what was necessary to support it.

The PT listed the following items that have and could be an impact to meeting the scheduled dates:

- IMs
- FOSLs
- FOSTs
- Other meetings
- Permit modifications
- RAB issues

- Investigation surprises (SWMU 39)
- Personal leave
- Training

***Consensus passed on accepting the RFI schedule dates as proposed.***

**Tony has action to develop the RFI schedule proposed and provide to the PT.**

Brian asked how Fast Track could be applied to the schedule layout? The PT gave dates but didn't discuss compressing or even if the dates were achievable. Bobby stated that maybe we need to sit down and discuss paper work - What is required/do the minimum/cut down on time. Field work moves quickly and smoothly - paper work is the hold up.

Doyle recommended that we apply lessons learned to the CMS workplans - Be performance based vice process oriented. Performance based means setting the goals up front, identifying land use, and focusing on the goals that have been set.

Some thoughts were provided on Where is Fast Track by PT members -

- Table top reviews cut time
- Preparation cuts EPA and State reviews
- Preparation cuts rework of documents
- SWMU 39 approach good example of Fast Track
- Key is communication
- Need same expectations in submittals
- Need compressed schedule
- No extra stuff in reports and workplans
- Field work is the quickest part of process
- Back on track
- Needs a good schedule
- Don't make same mistakes in CMS
- Performance based/not process based

Doyle feels the PT needs to meet and work together on documents. The 30/60/90 % reviews are good and should continue. SWMU 39 was a good example of working together, meetings and getting the job done.

Paul stated that the RFI is involved in a specific process with specific steps (RCRA permit drives). The 30/60/90 % reviews allow for mini-preparation reviews and helps the process. This is Fast Track. SWMU 39 shows how Fast Track can be accomplished. Three phases were accomplished in a couple of months. The PT needs to show its accomplishments.

Todd stated that we have been working Fast Track since the last CAMP revision.

Cecile commented that submittals to Tier II include success stories. Faster/Better/Cheaper. Not sure if it is going to change with the new Tier II organization. Ann <sup>SPECULATED</sup> stated that the new Tier II feels that Tier I should not have to justify itself.

Tony feels the 30/60/90 % reviews are helpful and should continue. The PT should look at the report process to save time and Fast Track.

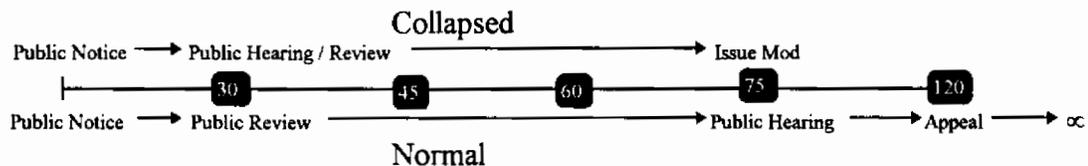
Cecile asked what is different about SWMU 39? Brian felt the difference was communication/worked at the table/no report. Cecile stated that SWMU 39 was a hot spot and showed that the PT can make decisions when it has to. This proves that decisions can be made, just need to apply to all areas, make decisions - move forward.

**CMS Schedule:**

A permit modification is required prior to beginning the CMS. After the RFI report is approved, some sites will go into a CMS. These sites must be identified in the RCRA permit. This is considered a Minor Mod and does not require public review or a hearing. This can be completed as fast as the paper work can be done (State 3 - 5 days). For those sites that are determined to be NFA, a major permit mod is required.

Minor Mod	Major Mod
<ul style="list-style-type: none"> <li>* No public hearings</li> <li>* No mandatory review period</li> <li>* No public comment period</li> <li>* 3 - 5 day turn around at State</li> </ul>	<ul style="list-style-type: none"> <li>* Public notice required (30 days)</li> <li>* Public review period (45 days)</li> <li>* Public hearing</li> <li>* Appeal</li> </ul>

Ann stated that there are ways to collapse the required time for the major mod by having the public hearing at the end of the public notice and before public comment.



- Best ⇒ 75 Days
- Bad ⇒ 120 Days
- Worst ⇒ ∞

During the CMS a second permit mod is required after the CMS report is submitted and prior to starting the CM design. This permit mod is a major mod and selects the CMI method.

It was recommended that the RAB be educated on the process to prevent surprises. This will help expedite the process.

The CMS guidance allows IMs to be final actions. This does not short circuit the CMS process.

Paul asked the question - How can we Fast Track CMS?

- Doyle recommended that we:
- (1) Performance based not process based
  - (2) Reference vice incorporate documents

Doyle wanted to know how the sites could be broken down for the CMS. Tony stated that he and Todd had discussed using a geographical approach and address the types of contaminants in each group.

Tony presented the following layout for discussion:

Zones	Group	Contaminant Based WP
H, I	I	A - VOC/SVOC B - Inorganics C - ↓ D -
A, B, C	II	"
D, F, G, E	III	"
J, K	IV	"
L	Distributed throughout Groups I - IV	

Todd recommended that sections that are redundant not be repeated (ie part on contaminants). Ann asked about the constituent groups - for each contaminant group would there be a presumptive remedy? Todd stated that when they do the group workplans, they would group the sites based on similar contaminants. There may be some overlap if sites contain groups of different contaminants which would limit the number of presumptive remedies. Paul concerned that sites are not piecemealed, but that we consider all sites in the presumptive remedies.

Bobby recommended that a single workplan be prepared and that the CMS workplans be added to the workplan when prepared and approved. This will prevent holding up the process until all sites in a group have been completed.

A proposal was made that a Comprehensive workplan which describes all presumptive remedies would be modified by site specific addendums. The CMS workplan will be approved separately, and each addendum will be approved by a permit modification. *Consensus passed.*

Doyle made a proposal to have a performance based CMS process. *Consensus passed.*

A proposal was made to reference documents and not repetitively include in the CMS process. *Consensus passed.*

The PT prepared a schedule for the preparation of the CMS Comprehensive Workplan and the submittal of the Zone B package.

*Consensus passed on the CMS dates as proposed for the Comprehensive workplan and the Zone B submittal.*

**Tony has action to develop the CMS schedule as proposed and provide to the PT.**

Paul stated that we need commitment from all PT members to have data, make decisions and have no surprises.

***PT consensus passed that the schedule presented is a PT commitment to try to meet. Problems will be brought to the table and presented to the team for resolution.***

***PT consensus was passed that the RFI schedule will be completed at the Atlanta meeting.***

***PT consensus passed that the schedules will be reviewed early at each PT meeting to identify problems in meeting it.***

### SWMU 39 Update

Handout was provided by Tony.

Personal well that was sampled had revealed TCE. The well was sampled again the week of 10/14 along with a neighbor's well. Information was obtained on the well construction and use. The risk assessment run by Ensafé shows for the individuals use (conservative)  $< 10^{-6}$ . Using the criteria that is being used on the Base (MCLs with human consumption) for calculating risk, the risk was  $3 \times 10^{-5}$ . It is highly unlikely that this hit is coming from the Base.

Doyle recommended that if it is not associated with the Navy, then the Navy shouldn't do any more investigation, but there is a moral obligation to make the community aware of the findings.

Ann brought up some concerns over some recent findings else where that TCE has been shown to pass through PVC piping . She will check this out more and report back to the PT.

### BCP Abstract

Daryle stated that based on the agreements from the earlier October PT meeting the following totals are provided on the Environmental Condition of Property:

- 968 acres GRAY
- 397 acres RED
- 126 acres YELLOW
- 1389 acres LIGHT GREEN (Clouter Island)

Daryle presented his update to the BCP Abstract that was due to NAVFAC Headquarters in October. ***PT consensus passed that the BCP abstract input as presented by Daryle was satisfactory.***

## ERMA Letter Response

The following discussions centered around input to responding to the ERMA letter requests dated 7 Oct 96.

The PT agreed that paragraphs 2.a, b, c, d, and f dealt with current, planned and status of projects at the Base. This would be addressed by Tony with input from the other respective PT members.

The PT agreed that the only issues needing to be addressed (para 2.e) were competing demands on resources and staff transition.

PT agreed that no support from Tier II was necessary (para 2.h).

Bobby questioned why the PT was trying to justify to Tier II that we were off track and having problems accomplishing anything. The only time the PT seems to consider this is when the Tier II says we are having problems. The question was asked by Bobby about where was Tier II getting their input since our link seldom attended our meetings. Also we are going to have disagreements and conflicts but the measure of success is can we as a team work through these and continue moving forward. Bobby concerned that the PT was trying to convince ourselves that we had a problem and then identify ways to correct these problems just to satisfy a perception of Tier II. Bobby recommended that Tier II be asked to provide detail input as to why and where they consider the PT to be "Off Track". Bobby posed the question to the team if anyone thought we had unresolvable problems and were "Off Track"? One comment was made that some teams are functioning better than ours. No other PT team members felt that Tier II was accurate or justified based on the metrics that the team uses as a measure of progress. It boils down to a matter of perspective.

Based on the above discussion, the PT agreed to answer para 2.g that a meeting was held on Oct 22 and 23 to discuss procedure improvements. The minutes are attached.

*PT consensus passed on stating in the final paragraph of the response a discussion of our success.* It was brought out that this depends on metrics. The Tier II perceptives may be based on different measurements.

**Tony has action to provide a draft response by October 25.**

## Goal, Mission and Vision

The PT members provided their ideas of what the goal of the PT should be.

***PT consensus passed on the following goal:***

***The goal of the Naval Base Charleston Environmental Cleanup Project Team is to transfer property that is protective of human health and the environment in an efficient, effective and expedient manner.***

***PT consensus passed on the following mission:***

***The mission of the Naval Base Charleston Environmental Cleanup Project Team is to return the Base to reuse by the community through effective, efficient and expedient cleanup ensuring protection of human health and the environment.***

***PT consensus passed on the following PT vision:***

***We will accomplish our mission by joint decision making and ownership as a team.***

## BCT in Charleston

Bobby stated that for several months there have been questions about if the BCT exists. Of concern is that a representative from NAVSEA met with Mr. Allison at SOUTHDIV and asked about the BCT. The response from Mr. Allison was its up and running well. In Bobby's opinion the BCT had been engulfed by the PT and that no BCT meetings have been held. He had concerns over where is the split in responsibilities between the BCT and the PT.

After discussion among the members it was left that the BCT does exist at Charleston and that how it functions is up to the members.

Prior to adjournment two statements were brought to the table:

1) Todd requested that Sandy Reagan (Ensafe) be able to attend the November PT meeting. She is in management at Ensafe and will be assisting Todd in resolving his needs. ***PT consensus passed on agreement for Sandy to attend.***

2) A statement was also made that Doyle wasn't wearing a tie. Good for you Doyle!!

The meeting was adjourned with the next meeting on November 12 and 13.

**Naval Base Charleston Project Team Meeting  
OCTOBER 22 and 23, 1996**

**Attendance Sheet**

<u>NAME</u>	<u>ORGANIZATION</u>	<u>PHONE</u>	<u>FAX</u>
Tony Hunt	SOUTHDIV	(803) 820-5525	(803) 820-5563
Brian Stockmaster	SOUTHDIV	(803) 820-7481	(803) 820-5563
Johnny Tapia	SCDHEC	(803) 896-4179	(803) 896-4002
Todd Haverkost	E/A&H	(803) 884-0029	(803) 856-0107
Bobby Dearhart	DETHASN	(803) 743-2821	(803) 743-0174
Doyle Brittain	USEPA	(404) 562-8549	(404) 562-8518
Ann Ragan	SCDHEC	(803) 734-4721	(803) 734-5407
Paul Bergstrand	SCDHEC	(803) 896-4016	(803) 896-4002
Daryle Fontenot	SOUTHDIV	(803) 820-5607	(803) 820-5563
Dave Backus	E/A&H	(901) 372-7962	(901) 372-2454
Cecile Lacey	Galileo (facilitator)	(401) 762-2391	(401) 762-2133



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

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

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November 26, 1996

MEMORANDUM

SUBJECT: October 30, 1996, Ecological Risk Assessment Meeting

FROM: Doyle T. Brittain  
Senior Remedial Project Manager

TO: Naval Base Charleston Project Team (See Addressees Below)

Attached is a copy of the minutes from the subject meeting. I received comments from only two people so I assume silence is consent from everyone else.

Attachment

Addressees

Dave Backus  
Paul Bergstrand  
Earl R. Dearhart  
Daryle Fontenot  
Todd Häverkost  
Tony Hunt  
Cecile Lacey  
Ann Ragan  
Sandy Reagan  
Brian Stockmaster  
Johnny Tapia  
Kevin Tunstall

MINUTES OF OCTOBER 30, 1996  
ECOLOGICAL RISK ASSESSMENT MEETING

ATTENDEES

Tony Hunt, SOUTHDIV, 803-820-5525  
Jim Speakman, EnSafe, 901-372-7962  
Todd Haverkost, EnSafe, 803-884-0029  
Sandy Reagan, EnSafe, 423-693-3623  
David L. Trimm, EnSafe, 904-479-4595  
Doyle T. Brittain, EPA, 404-562-8549  
Joan DuPont, EPA, 404-562-9228  
Johnny Tapia, SCDHEC, 803-896-4179

ECOLOGICAL RISK ASSESSMENT

GENERAL (APPLIES TO ALL ECOLOGICAL SUB-ZONES)

1. In the RFI Report, bring the reader to closure on discussions of ecological risk.
2. In the RFI Report, carry the sub-zone conclusion thru to each AOC/SWMU within that sub-zone.
3. In the RFI Report, be careful with the language that we use to describe ecological risks beyond Phase 2.
4. In the RFI Report, avoid "caveats."
5. Consider the groundwater and surface water interaction in the ecological risk assessment.
6. Comments related to mean concentration in Zone H will be incorporated into the RFI Reports for Zones A, C, and I.

SPECIFIC

Sub-Zone H-1

1. Phase 2 has been completed.
2. Phase 3 is not needed.
3. Ecological risk is not a driver for CMS.

Sub-Zone H-2

1. Phase 2 has been completed.
2. Phase 3 is not needed.
3. Ecological risk is not a driver for CMS.

4. In designing the CMS, consider the impact on ecological risk down gradient.
5. In the CMS - not the RFI - review the Interim Measure and its impact on ecological risk.
6. In the RFI Report, explain the elevated contamination at SWMU 121. Consider this contamination in the CMS.

#### Shipyard Creek

1. Indications are that the contamination from two samples is not from Naval Base Charleston. This contamination will be further investigated as a part of the Zone J RFI.

#### Sub-Zone H-3

1. Phase 3 not necessary.
2. Ecological risk is not a driver for CMS.

#### Sub-Zone H-4

1. Phase 2 has been completed.
2. Phase 3 is not needed.
3. Ecological risk is not a driver for CMS.
4. Consider this Sub-Zone in conjunction with the Zone J RFI.
5. There is no link to any AOC or SWMU in Zone H.
6. Go back to a well with no contamination and screen it for potential contaminant migration.

#### RFI Zone B

1. There are no areas for ecological concern.
2. No additional work is necessary, based on ecological risk.

#### Sub-Zone I-1

1. Phase 2 has been completed.
2. Phase 3 is not needed.
3. Ecological risk is not a driver for CMS.
4. Consider transport from this Sub-Zone in the Zone J RFI.

Sub-Zone I-2

1. Phase 2 has been completed.
2. Phase 3 is not needed, if the copper and zinc contamination in the surface soil is restricted to the vicinity of the AOCs.
3. Ecological risk is not a driver for CMS.
4. Explain the chlordane contamination in relation to the hazardous waste sites.

Sub-Zone I-3

1. Phase 2 has been completed.
2. Phase 3 is not needed.
3. Ecological risk is not a driver for CMS.
4. Address groundwater issues here.

Sub-Zone C-1

1. In the CMS - not the RFI - review the Interim Measure work and its impact on ecological risk.
2. Collect approximately two more surface soil samples. Use these data in the ecological risk assessment, the RFI Report.
3. In the Zone J RFI, look for transport from Sub-Zone C-1.
4. In the RFI Report, mention that the coal pile has been removed so the source for future releases has been eliminated.
5. Check the drainage ditches as a migration pathway. Explain this in the RFI Report.
6. Contingent upon the results of the extra soil samples to be taken, Phase 3 might not be necessary and ecological risk might not be a driver for CMS.
7. Phase 3 not necessary.
8. Ecological risk is not a driver for CMS.

Sub-Zone C-2

1. Check on the mean metals concentrations in surface soil and their effects on fauna and vegetation.
2. Contingent upon the results of the mean metals concentrations check, Phase 3 might not be necessary and ecological risk might not be a driver for CMS.

Sub-Zone C-3

1. Phase 2 has been completed.
2. Phase 3 is not needed.
3. Ecological risk is not a driver for CMS.

Sub-Zone A-1

1. Joan DuPont has not completed her review of this RFI Report.
2. David Trimm will give Joan DuPont information which she can use to draw conclusions on ecological risk for this Sub-Zone.
3. Joan DuPont will review the draft Zone A RFI Report and the extra information provided by David Trimm.
4. David Trimm and Joan DuPont will discuss the results; Joan DuPont will provide information needed to complete the RFI Report and design the CMS.

RFI COMPLETION SCHEDULE

1. See attached.
2. SCDHEC and EPA will delay sending comments on the draft Zones A and H RFI Reports, currently under review by SCDHEC and EPA, until Naval Base Charleston submits revised pages on the Ecological Risk Assessment. EPA has already reviewed and submitted comments to SCDHEC on the draft Zones C and I RFI Reports. SCDHEC will complete their reviews and submit comments to Naval Base Charleston on the draft Zones C and I Reports. Naval Base Charleston will submit revised draft Zones C and I RFI Reports which will consider the SCDHEC and EPA comments and include revised pages on the Ecological Risk Assessment. Future RFI Reports will include the revisions on Ecological Risk Assessment.
3. David Trimm and Joan DuPont will communicate frequently by phone, FAX, and in person to ensure the Ecological Risk

Assessment sections are adequate when future RFI Reports are submitted.

4. EPA gave to EnSafe an electronic version of the EPA comments on the draft Zone L RFI Work Plan, and the draft Zones C and I RFI Reports.
5. EPA comments on the draft Zone J RFI Work Plan were discussed. At the November Project Team meeting, the Zone J RFI Work Plan will be revised to consider these comments.
6. Interim Measures actions might be identified and acknowledged, but will not be addressed, in the RFI Report. Rather, Interim Measures actions will be considered in the CMS.



ACTION	ACTIVITY	RFI SCOPING MEETING	DRAFT WORK PLAN SHIPPED	EPA REVIEW	SCDHEC REVIEW	WORK PLAN APPROVAL MEETING	FINAL WORK PLAN SHIPPED
DUE	ZONE I RFI						
DONE							
DUE	ZONE J RFI					11-13-96	11-27-96
DONE							
DUE	ZONE K RFI						
DONE							
DUE	ZONE L RFI				11-22-96	12-11-96	12-20-96
DONE			08/05/96	08/07/96			

**NAVAL BASE CHARLESTON ENVIRONMENTAL INVESTIGATION STATUS**

<b>ACTION</b>	<b>ACTIVITY</b>	<b>FIELD WORK BEGIN</b>	<b>30% PROGRESS REVIEW MEETING</b>	<b>60% PROGRESS REVIEW MEETING</b>	<b>90% PROGRESS REVIEW MEETING</b>	<b>FIELD WORK END</b>	<b>PRE-SUBMITTAL REVIEW</b>
DUE	ZONE A RFI						
DONE							
DUE	ZONE B RFI						
DONE							
DUE	ZONE C RFI						
DONE							
DUE	ZONE D RFI			11-12-96	12-11-96	12-15-96	02-11-97
DONE		08-15-96	10-09-96				
DUE	ZONE B RFI				11-12-96	02-24-97	04-04-97
DONE							
DUE	ZONE F RFI			12-11-96	02-11-97	03-15-97	05-14-97
DONE		08-15-96	10-09-96				
DUE	ZONE G RFI			12-11-96	02-01-97	03-15-97	05-14-97
DONE		08-15-96	10-09-96				
DUE	ZONE H RFI						
DONE							

ACTION	ACTIVITY	FIELD WORK BEGIN	30% PROGRESS REVIEW MEETING	60% PROGRESS REVIEW MEETING	90% PROGRESS REVIEW MEETING	FIELD WORK END	PRE-SUBMITTAL REVIEW
DUE	ZONE I RFI						
DONE							
DUE	ZONE J RFI	12-02-96	04-09-97	06-11-97	08-13-97	09-02-97	11-12-97
DONE							
DUE	ZONE K RFI	10-16-96	12-11-96	01-14-97	02-11-97	03-16-97	05-14-97
DONE							
DUE	ZONE L RFI	01-02-97	03-12-97	05-14-97	07-09-97	08-02-97	10-15-97
DONE							

**NAVAL BASE CHARLESTON ENVIRONMENTAL INVESTIGATION STATUS**

<b>ACTION</b>	<b>ACTIVITY</b>	<b>DRAFT REPORT SHIPPED</b>	<b>EPA REVIEW</b>	<b>SCDHEC REVIEW</b>	<b>REPORT APPROVAL MEETING</b>	<b>FINAL REPORT SHIPPED</b>	
DUE	ZONE A RFI	11/22/96*	12/06/96	12/06/96	12/11/96	01/06/97	
DONE							
DUE	ZONE B RFI					11-21-96	
DONE		03/05/96	06/20/96	10/21/96			
DUE	ZONE C RFI			01/24/97	02/12/97	02/28/97	
DONE		01/29/96	06/25/96				
DUE	ZONE D RFI	03-15-97	04-30-97	05-15-97	05-30-97	06-13-97	
DONE							
DUE	ZONE E RFI	05-24-97	07-07-97	07-24-97	08-07-97	08-21-97	
DONE							
DUE	ZONE F RFI	06-15-97	07-30-97	08-15-97	08-29-97	09-12-97	
DONE							
DUE	ZONE G RFI	06-15-97	07-30-97	08-15-97	08-29-97	09-12-97	
DONE							
DUE	ZONE H RFI	11/22/96*	12/06/96	12/06/96	12/11/96	12/27/96	
DONE							

ACTION	ACTIVITY	DRAFT REPORT SHIPPED	EPA REVIEW	SCDHEC REVIEW	REPORT APPROVAL MEETING	FINAL REPORT SHIPPED	
DUE	ZONE I RFI	01/27/97**	03/13/97	03/27/97	04/09/97	04/23/97	
DONE							
DUE	ZONE J RFI	12-02-97	02-02-98	02-02-98	02-11-98	02-25-98	
DONE							
DUE	ZONE K RFI	06-16-97	08-01-97	08-16-97	08-29-97	09-12-97	
DONE							
DUE	ZONE L RFI	11-02-97	01-02-98	01-02-98	01-14-98	01-29-98	
DONE							

\* For the Zones A and H RFI Reports, revised pages for the Ecological Risk Assessment will be submitted for EPA and SCDHEC review.

\*\* For the Zone I RFI Report, SCDHEC will complete its initial review by 12/27/96; EPA completed initial review 07/11/96.

**NAVAL BASE CHARLESTON ENVIRONMENTAL INVESTIGATION STATUS**

<b>ACTION</b>	<b>ACTIVITY</b>	<b>PERMIT SUBMITTAL</b>	<b>PERMIT MODIFIED</b>	<b>CMS SCOPING MEETING</b>	<b>DRAFT WORK PLAN SHIPPED</b>	<b>EPA REVIEW</b>	<b>SCDHEC REVIEW</b>
DUE	COMPREHENSIVE CMS WORK PLAN			12-12-96	01-31-97	03-15-97	03-31-97
DONE							
DUE	ZONE A CMS						
DONE							
DUE	ZONE B CMS	12-05-96	12-20-96	01-14-97	02-14-97	03-31-97	04-14-97
DONE							
DUE	ZONE C CMS						
DONE							
DUE	ZONE D CMS						
DONE							
DUE	ZONE E CMS						
DONE							
DUE	ZONE F CMS						
DONE							
DUE	ZONE G CMS						
DONE							

ACTION	ACTIVITY	PERMIT SUBMITTAL	PERMIT MODIFIED	CMS SCOPING MEETING	DRAFT WORK PLAN SHIPPED	EPA REVIEW	SCDHEC REVIEW
DUE	ZONE H CMS						
DONE							
DUE	ZONE I CMS						
DONE							
DUE	ZONE J CMS						
DONE							
DUE	ZONE K CMS						
DONE							
DUE	ZONE L CMS						
DONE							

**NAVAL BASE CHARLESTON ENVIRONMENTAL INVESTIGATION STATUS**

<b>ACTION</b>	<b>ACTIVITY</b>	<b>WORK PLAN APPROVAL MEETING</b>	<b>FINAL WORK PLAN SHIPPED</b>	<b>FIELD WORK BEGIN</b>	<b>30% PROGRESS REVIEW MEETING</b>	<b>60% PROGRESS REVIEW MEETING</b>	<b>90% PROGRESS REVIEW MEETING</b>
DUE	COMPREHENSIVE CMS WORK PLAN	04-09-97	04-23-97				
DONE							
DUE	ZONE A CMS						
DONE							
DUE	ZONE B CMS	05-13-97	05-27-97	06-02-97	07-08-97	08-13-97	09-10-97
DONE							
DUE	ZONE C CMS						
DONE							
DUE	ZONE D CMS						
DONE							
DUE	ZONE E CMS						
DONE							
DUE	ZONE F CMS						
DONE							
DUE	ZONE G CMS						
DONE							

ACTION	ACTIVITY	WORK PLAN APPROVAL MEETING	FINAL WORK PLAN SHIPPED	FIELD WORK BEGIN	30% PROGRESS REVIEW MEETING	60% PROGRESS REVIEW MEETING	90% PROGRESS REVIEW MEETING
DUE	ZONE H CMS						
DONE							
DUE	ZONE I CMS						
DONE							
DUE	ZONE J CMS						
DONE							
DUE	ZONE K CMS						
DONE							
DUE	ZONE L CMS						
DONE							

**NAVAL BASE CHARLESTON ENVIRONMENTAL INVESTIGATION STATUS**

<b>ACTION</b>	<b>ACTIVITY</b>	<b>FIELD WORK END</b>	<b>PRE-SUBMITTAL REVIEW MEETING</b>	<b>DRAFT REPORT SHIPPED</b>	<b>EPA REVIEW</b>	<b>SCDHEC REVIEW</b>	<b>REPORT APPROVAL MEETING</b>
DUE	COMPREHENSIVE CMS WORK PLAN						
DONE							
DUE	ZONE A CMS						
DONE							
DUE	ZONE B CMS	09-30-97	10-14-97	11-14-97	01-14-98	01-14-98	02-11-98
DONE							
DUE	ZONE C CMS						
DONE							
DUE	ZONE D CMS						
DONE							
DUE	ZONE E CMS						
DONE							
DUE	ZONE F CMS						
DONE							
DUE	ZONE G CMS						
DONE							

ACTION	ACTIVITY	FIELD WORK END	PRE-SUBMITTAL REVIEW MEETING	DRAFT REPORT SHIPPED	EPA REVIEW	SCDHEC REVIEW	REPORT APPROVAL MEETING
DUE	ZONE H CMS						
DONE							
DUE	ZONE I CMS						
DONE							
DUE	ZONE J CMS						
DONE							
DUE	ZONE K CMS						
DONE							
DUE	ZONE L CMS						
DONE							

**NAVAL BASE CHARLESTON ENVIRONMENTAL INVESTIGATION STATUS**

<b>ACTION</b>	<b>ACTIVITY</b>	<b>FINAL REPORT SHIPPED</b>	<b>PERMIT SUBMITTED</b>	<b>PERMIT MODIFIED</b>			
DUE	COMPREHENSIVE CMS WORK PLAN						
DONE							
DUE	ZONE A CMS						
DONE							
DUE	ZONE B CMS	02-25-98		06-25-98			
DONE							
DUE	ZONE C CMS						
DONE							
DUE	ZONE D CMS						
DONE							
DUE	ZONE E CMS						
DONE							
DUE	ZONE F CMS						
DONE							
DUE	ZONE G CMS						
DONE							

ACTION	ACTIVITY	FINAL REPORT SHIPPED	PERMIT SUBMITTED	PERMIT MODIFIED			
DUE	ZONE H CMS						
DONE							
DUE	ZONE I CMS						
DONE							
DUE	ZONE J CMS						
DONE							
DUE	ZONE K CMS						
DONE							
DUE	ZONE L CMS						
DONE							

PT AGENDA

**Naval Base Charleston  
Environmental Cleanup Project Team  
Meeting Agenda  
November 12 and 13, 1996**

Leader - Johnny Tapia  
Scribe - Bobby Dearhart

\* *Naval Reserve Readiness Center @ Cummins Industrial Park on Leeds Avenue*

\* *Note: RAB begins at 5:00 - 6:00 for Presentation on Risk Assessment and actual meeting begins at 6:00.*

**November 12, 1996**

8:00 - 9:00	Introduction Ground Rules Revise Agenda Prioritize Agenda Define Objectives of Meeting Review Minutes and Action Items from October Meetings	Johnny Tapia
9:00 - 10:00	Pre-RAB Presentation	(Discussion) Daryle Fontenot
10:00 - 10:15	Break	
10:15 - 11:00	Zone D 60% Review	(Discussion) Todd Haverkost
11:00 - 12:00	Zone E 90% Review	(Discussion) Dave Backus
12:00 - 1:00	Lunch	
1:00 - 3:00	Zone E 90% Review (Continued)	(Discussion) Dave Backus

**November 13, 1996**

8:00 - 8:30	Post RAB Meeting Critique	(Discussion) Johnny Tapia
8:30 - 9:45	Background Organics	(Decision) Tony Hunt
9:45 - 10:00	Break	
10:00 - 11:00	Academia Involvement	(Decision) Tony Hunt
11:00 - 11:10	Break	
11:10 - 12:00	IM Status	(Information) Kevin Tunstall
12:00 - 1:00	Lunch	
1:00 - 2:00	<del>Environmental Programs Review</del>	(Information) Daryle Fontenot
?? → 2:00 - 2:30	Risk Education for RDA	(Decision) Paul Bergstrand
2:30 - 2:45	Break	
2:45 - 3:15	Next Meeting Date, Time, Place and Leader Set Agenda Review Action Items and Parking Lot Set November Conference Call	Johnny Tapia
3:15 - 4:00	Close-out and Wrap-up	Cecile Lacey

PT MINUTES

**Naval Base Charleston Project Team  
Meeting Minutes  
November 12 and 13, 1996**

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List of attendees is attached.

Doyle read the Ground Rules.

Agenda changes for the meeting were made with the following additions:

- Zone J RFI Workplan
- CMS Discussion
- Building 44 Demolition Discussion

A proposal was made to change the format of the meeting minutes from the present version to a more concise version (decisions and actions). This proposal did not pass consensus.

A request was made by Tony to modify the October 8/9 minutes. Bobby stated that the PT had agreed that the minutes would be final after a one week review period. The October minutes have been issued. The following clarifications were requested to be noted in the November minutes:

Tony requested that it be noted that the minutes refrain from personal bias such as the second sentence on page 7 of the October 8/9 minutes.

Ann had speculated that Tier II did not want Tier I to justify itself (last sentence on page 8 of the October 22/23 minutes).

Todd introduced Sandy Reagan from Ensafe who is on the executive level and will be assisting Dr. Speakman and Todd in expediting the Charleston effort.

Wayne Cotton from SOUTHDIV was introduced who will provide a briefing for the status of Chicora Tank Farm.

Status of Action Items From the October PT Meetings

ACTIONS FROM OCTOBER PT MEETING	STATUS
1. *Compile information for Tier II ERMA report.	Action complete.
2. *Review information from Todd for Tier II ERMA report and prepare comments.	Action complete
3. *Review all Zone E catch basins in the IM and determine if any duplication exists.	Action complete.
4. *Determine purpose and history of cement pits around AOC 633.	Tony is in progress. Sanitary sewer maps have been reviewed to get details. New ECD 12/10.
5. *Provide methodology to be used at AOC 636 to locate possible munitions.	To be presented at the 12/10 meeting.
6. *Provide motel listing for Columbia meeting.	Action complete.
7. *Provide location of Columbia meeting	Action complete.
8. *Review Chapter 8 of Zone H RFI Report for CMS discussion at Columbia meeting.	Action complete.
9. *Provide Background Organics technical memo	To be discussed during meeting. Final memorandum to be issued by 11/15. Action Tony.
10. *Resolve permit issues with CSO/RDA	Working. To be discussed at the 12/10 meeting.
11. *Provide comments on Academia Involvement	Handout to be provided. Info-mail to discuss at the 12/10 meeting.
12. *Review Cecil Field Mission and Vision statement	Action complete.
13. *Determine if MBTI results will be discussed.	Action complete. Scheduled for 12/11.
14. #Ensafe review all Eco risk comments from EPA/State.	Action complete.
15. #Develop RFI schedule as proposed and provide to PT.	Action complete.
16. #Develop CMS schedule as proposed and provide to the PT.	Action complete
17. #Provide draft response to ERMA letter.	Action complete.
18. #Meet in Atlanta with EPA, State, Ensafe and Navy to fix eco risk problem for Zone A, C, H and I RFI reports.	Action complete.

\* Action items from October 8 and 9 PT meeting.

# Action items from October 22 and 23 PT meeting.

Doyle asked if we put forth a positive statement in the ERMA response on what has been accomplished. Bobby stated that the letter has been issued. The letter will be provided to the PT members during the meeting.

## Pre-RAB

Daryle stated that the RAB meeting format would be the shorter version as a test since the RAB was in favor of it.

Wayne Cotton from SOUTHDIV provided the following discussion on Chicora Tank Farm status:

Option III is being re-looked at since the abandonment of the waste had been resolved. The State would allow a one time exception that this would not be a permitted land fill.

The RDA still wants total removal. The Navy cannot do total removal and if the RDA does not give buy-in then may go back to just abandoning the tanks. During a conference call between the Navy and the State, it was discussed to possibly do one tank as a test. Funding is still an issue. Brian asked about the magnitude of cost. Wayne was unable to discuss since the DET was present and they may be requested to provide a proposal on accomplishment of the work. There are still a couple of technical issues with the materials use of Positech versus clay and finalizing the solid waste issues.

Tony stated that if the RDA does not agree with the selected option then they may not accept the property. Bobby stated that it can then go out for public sale.

Brain asked that even with the one time exception will it still have a deed restriction? Ann commented that she does not believe so.

Doyle stated that the Navy was dealing with the RDA and the PT was dealing with the RAB. The RAB is on record for agreeing with Option III. We need to go with the RAB's decisions more so than the RDA's. The RAB needs to put pressure on the RDA.

Wayne stated that even with Option III there would be surface buildings, poles , etc. BRAC does not allow for improvements to property.

Ann requested that a meeting be held with the RDA prior to the next RAB. Open dates are 1/25, 11/26 and 12/2. **Daryle has action to set up a meeting with the RDA and Ann, Daryle and Doyle by 11/20.**

Daryle recommended that the following be provided at the RAB concerning CTF:

- still looking at options
- have technical issues to resolve
- new technical information to consider
- meeting with DHEC to discuss issues
- cost for Option III is more difficult to evaluate
- propose presentation at the December RAB meeting
- the Chicora environmental investigation report is in the repository

Wayne commented that the RAB did a 180° about face in options in August. Created additional problems for evaluation.

It was agreed that we need to be open with the RAB even though it is sometimes not easy, there is value in documentation. Cecile suggested that Wayne backup to remind the RAB what was agreed to in August. Be open and honest.

***PT consensus passed on Daryle's recommendation as to what will be presented to the RAB.***

Doyle stated that he had one other issue with Chicora. The RFA stated that there were no problems at Chicora. The earlier environmental assessment report stated that there were high concentrations of BTEX at the Chicora holding pond. Doyle is concerned that this may be a problem. Doyle requested a copy of all reports (does not matter what media or regulation covered it) and data summaries. He would like the PT to review and discuss the reports. EPA is not comfortable with transferring the property with the current information. Do we need to do a RFI on waste oil and high BTEX? **Daryle has action to provide input on the CTF to Doyle by 11/15.** This will be on the agenda for the next PT meeting.

Continuing with the Pre-RAB, the Zone C and I results will be presented with the status sheet. Questions will be addressed after the meeting. Todd stated that the C and I presentation will present what is in the reports. He is not aware of any information that will raise the RAB eyebrows.

The PT provided updates to the Status Sheet which will be available at the RAB.

#### Building 44 Demolition

Doyle addressed the October 31 letter on Building 44 being shifted from an IM to a Process Closure. He was not aware of this decision. Brian stated that the PT had agreed in the August meeting to handle the Building 44 demolition as a Process Closure and that he would address to the State that we were taking action at a site since Building 44 was designated as SWMU 25. Johnny also questioned the shift since he had a 1994 letter on file that the Process Closure of Building 44 was never approved. Tony stated that the 1994 Process Closure letter was sent for information not for approval. There was a consent order that required closure of the electroplating process and removal of all of the tanks. The Navy removed all items that could be potentially contaminated. Johnny has the closure certification from the State. Bobby addressed that the Process Closure now was to demolish the building and remove the slab. The soil was not to be disturbed. Johnny stated that there was a 2000 gallon tank still at Building 44. This must be addressed. Bobby stated that the tank was actually an electrical manhole that had cables entering it. The Process Closure designated that this was to be removed also. Johnny stated that the District Office must sample the contents of the tank (manhole). He would

like to tour Building 44 and see the manhole. Bobby stated that the Building 44 Process Closure procedure had been sent to EPA and the State for information as requested.

#### Zone D 60% RFI Review

Craig Smith and Amy Stehlin presented the Zone D 60% RFI Review. A handout was provided.

All soil samples have been taken. Two samples have been validated and are in the data base. Arsenic was detected in the upper interval which exceeds the industrial RBC. The other samples should be validated around Thanksgiving. GW has been sampled and locations have been surveyed.

Doyle asked if it is on schedule, any delays or problems? Amy stated that the RFI is going well with no problems. Doyle asked if there was anything unusual chemically that the PT should know about? Amy stated that they were not finding much, a few metals at just above the industrial RBC. Doyle stated that the absence of contamination is as good information as finding contamination. Tony reviewed the goals of the 60% review developed at the October PT meeting to ensure they were met. All items met.

Dave stated that there was an issue with the Zone E investigation and how it is relating to the Zone D investigation. Along Building 25 (AOC 569) there is a shallow/deep well pair. AOC 569 is in Zone E. The wells show that Zone D is upgradient of Zone E (ie GW flows D → E). The deep well is contaminated with chlorinated solvents. Additional wells will be installed in Zone D which will be presented in the 90% review. There appears to be a source in Zone D moving towards Zone E. This only appears in the deep wells. Cannot pin point a source at this time but could be coming from an old gas station that was located at McMillan Avenue. There are no specific AOCs or SWMUs being investigated in Zone D, only grid based sampling. Dave stated that we have a cross over of contamination - hits in Zone E wells coming from Zone D - and wondered what the best way to handle it (ie absorb into Zone D investigation?) Doyle and Johnny agreed that even if the source is in Zone D then it could be handled in the Zone E investigation and report (the boundaries are invisible). The question was asked if the data was being compared to surrounding zone backgrounds and do we expect the background to be different from other zones? Amy stated that Zone C is more residential/Zone E is more industrial. Need to develop background from Zone D to move on.

#### Background Organics

Tony stated there are two main issues that are driving the determination of background organics. First deals with the ability to place IDW back on the ground. The concerns are that it be protective of human health and the environment. Don't want to exposure humans/receptors to levels above what they are normally exposed.

Second deals with site assessment - Wide spread background organics are present due to urban activity that are driving the risk. Two objectives are hoped to be accomplished:

1. Determine which organics are present due to normal urban activity rather than Naval industrial activities.
2. Determine at what levels these are normal to urban activity.

PAHs are wide spread and variable. The proposal is to develop limits for carcinogenic PAHs. Doyle asked if this was being done at the exclusions of others - do non-carcinogens come under the memorandum? Todd stated that benzo-a-pyrene is the main problem. The most obvious compounds have been picked out to provide a procedure that could be applied to others.

Doyle stated that the term background organics is used from virgin petroleum to carcinogens. Need to give accurate focus. Tony stated that the focus is on BEQs because there is scientific literature available that documents the presence of PAHs as common urban contaminants. There are other contaminants that are wide spread but there is a lack of available information. The key is to develop a methodology to calculate background organic levels given the fact that the PAH presence is widespread. We acknowledge that the presence is not ubiquitous.

Todd stated that the technical memorandum would explain why the BEQs are so wide spread and present three best approaches to statistically calculating background. The PT will select the method that they are most comfortable.

Paul stated concern that positive hits would fall off since they were below screening values. Hits will not appear except on data sheets not addressed in the RFI reports. Doyle asked why the lost values were important since they don't play in the risk evaluation. Paul does not want to discard/discount values until they have been recorded in a table and reviewed. He does not want input that just summarizes hits above risk values and does not present all that is found. Todd stated that the Zone H RFI report provided summary tables by sample point that shows everything that was detected. Some data may not be specifically addressed in the report but the data is not lost. Dave stated that this provides a scientific means for the PT to make decisions with all of the data captured.

Doyle stated that this could be a screening tool to know when to stop sampling - answer the question when is enough data enough? Dave agrees that this is a good tool, but the permit requires sampling to extent.

**Tony has action to issue the Technical Memorandum by 11/15. The PT has action to review the Technical Memorandum for the next PT meeting on 12/10.**

## RDA Risk Education

Paul presented the following:

Goal: To educate the RDA about environmental risk assessment decisions and property transfer.

Problem: RDA expects unrestricted use and speedy transfer.

Proposal: Involve the RDA now again in dialogue to avoid conflict. Need to explain how the PT arrives at decisions, what a decision means to the RDA and get the RDA to accept the decision.

The BEST committee developed a reuse plan for the Base in early 1993. They did not listen to regulator input. The BEST expected the Base to be cleaned to pristine levels for unrestricted reuse. They did not listen if what was being said was not what they wanted to hear.

The RDA has redefined unrestricted use to mean the availability to develop. If the PT educates the RDA, the PT must explain why controls must be in place (ie SWMU 9 will not be dug up).

Bottom line is that it is up to the RDA to accept and meet all legal requirements.

Doyle stated that it is the PT's responsibility to ensure that property is environmentally suitable for reuse. Based on past experience the RDA will use political pressure to get what they want.

Should this be presented to the RDA now? Doyle recommended that the PT wait until there is a specific case.

*PT consensus passed to involve the RDA again in dialogue on environmental risk assessments to avoid conflict, but wait for a specific case. The staff will be educated first, and the Board will be briefed second if necessary.*

## CMS

Dave got the dates from Robert Moser taken from the CAMP and used the Zone B schedule as an example. Doyle needs the schedule to lineup EPA support. Dave has the dates and can provide them to Tony to put into the Excel spreadsheet.

Doyle asked if "wiggle room" had been built into the dates so dates can be met with some flexibility. Doyle also wanted to know if the zones had been grouped as discussed in the Columbia meeting. Todd stated that we had agreed on a Comprehensive CMS Workplan at Columbia with each site being added as an addendum.

Doyle asked how are the dates reflected in the CAMP? Are there any changes? Todd stated yes based on the RFI Reports. Tony added that the RFI/CMS schedule is essentially the new CAMP. There is concern that the dates must allow for surprises/unexpected issues such as the contamination identified in the Zone D 60% RFI review.

**Tony has action to revise the schedule dates on the RFI/CMS by 11/15. Tony has action to revise the CAMP dates by 11/22.**

***PT consensus passed that dates are accepted using the same rules and guidelines identified in Columbia on October 22.***

### Academia Involvement

Tony provided a handout. This will help towards the CMS and fate and transport of contaminants in the environment.

There are 3 reasons the Navy is interested in academia involvement:

- opportunity to add credibility from local scientific input and share results of their studies
- public relations having local institutions involved by cleaning up the Base and supporting academia study
- supporting diagnostic methods in assessment of remediation in scientific fields which may result in a less conservative site decision by providing more information which results in less uncertainty

**PT action to review proposals and provide comments to Tony by 12/4. Comments to be discussed at the 12/10 meeting.**

### ZONE B RFI Report Discussion

Todd stated that it was agreed to submit the Zone B RFI Report without an approval meeting. In revising the report Ensafe ran into three comments that are sticking points. These are programmatic in how data is being collected and presented. Todd has all of the results in the appendix. Not provided in the body of the report due to the magnitude of the data. The results were mapped using risk as a common denominator. The risk maps provide an understanding of the extent of contamination. Also a table was developed that lists all components that add to risk.

Paul stated that the real concern was identifying the extent of contamination. The report speaks to average and mean. Wants to be able to pick up the report and see that this is the extent of contamination. Not sure where the results of the sampling occurs. How can this be resolved without starting over?

Doyle stated that the RFI identifies 3 categories of sites:

- 1) essentially clean - transfer
- 2) obviously dirty -CMS
- 3) questionable - more samples; decisions; CMS; GRAY.

When it comes to transferring property must identify what is clean and what is not. Must identify the boundary. What will it take to get to this point? Todd responded that if it is based on risk we are there today. The risk maps show sample point limitations, recognizing the constraints in connecting dots. Todd considers we could identify clean areas now.

Paul needs to know what is clean and what is dirty. No risk maps were included in the Zone B report. This may be a problem. The risk versus concentrations of chemical constituents is presently being looked at as risk. Risk maps will be provided in the revised Zone B RFI Report. Contamination on Base is heterogeneous in nature and concentration. True background may never be able to be identified.

Concern that reuse is known for now, but 20 years from now there is no telling. Information can be determined by what is in the report now. Solution is to include risk maps both industrial and residential as well as a table. The table is COPCs and does not address NDs or < RBCs.

The question was asked as to how the data is being screened? The magnitude of the data is overwhelming - Zone A had greater than 6000 pieces of data.

Dave stated that Ensafe needs to let the State see how data is screened to show the relativity of the risk maps.

It was agreed that the Zone B RFI Report will be finalized the same as the Zone H RFI Report with minor twiking.

### HESS Tank Farm

A letter from HESS was passed out concerning sampling that had been performed. Note that the letter indicates that free product was discovered during sampling. This was provided to the PT as information.

Post-RAB Critique

The PT provided the following observations from the November 12<sup>th</sup> RAB meeting:

PLUS	MINUS
<ul style="list-style-type: none"><li>• Risk assessment presentation good</li><li>• Doyle helped/supported</li><li>• Good presentation on Zones C &amp; I</li><li>• Handout material for Zones C &amp; I very helpful</li></ul> <p>Suggestion:</p> <ul style="list-style-type: none"><li>• Make RAB aware of the documents available and opportunity to comment.</li></ul>	<ul style="list-style-type: none"><li>• Opened the door for the RDA to add sampling of the dredge material disposal area.</li><li>• SWMU 39 not brought up</li><li>• No public involvement (meet closer to Base)</li><li>• Not room for all RAB members</li><li>• Navy should speak up in support of Ensafe on policy issues</li><li>• EPA does not agree on Navy's interpretation of regulations applying to dredge material disposal area</li><li>• Disconnect of RAB from tasks on the Base</li><li>• Uncomfortable with new format of RAB meeting</li><li>• Need assistance with visuals</li></ul>

Zone E 90% RFI Progress Review

The Zone E 90% RFI Progress review was provided by Greg Temple. A handout was provided.

No problems that require deviation from the workplan have been encountered. The Zone E investigation has run much smoother than anticipated.

- I. Soil/GW monitoring is complete. 1031 soil samples  
188 monitoring wells (130 shallow, 58 deep)

Most of the second round sampling has occurred on the western boundary of Zone E. Second round monitoring wells complete 10/28. Wells installed to help determine GW flow due to the barriers that interfere with the flow such as piling, fill, and other structures.

Doyle reemphasized that zone boundaries have no real meaning. Disregard the boundaries and investigate the plume. Keep the PT aware of what is happening to help with making decisions. Johnny asked if the PT should reach consensus on the changing of boundaries especially since the Zone E and Zone D investigation is affected. Todd and Dave have no problems contractually or otherwise.



result, HQ by parameter, % of parameter that contributes to HI and risk, and the cumulative risk and HI. These tables will be provided for both residential and industrial scenarios. There will also be a Comprehensive RGO (Remedial Goals Option) Equivalent table for residential and industrial as part of the risk characterization mapping.

Over 95% of the Zone E is covered with no exposure path. Mark Bowers stated that the risk is based on the covering removed and some blanket assumptions such as someone is chemically exposed at that fixed point.

IV. Revised Risk Format Approach - The use of GIS was explained. Issues, Objectives, Technical Issues, Purpose & Benefits, and Exceptions to the Revised Format were presented as outlined in the handout.

Bobby asked why SWMU 54 was not on the exception list since it was an exposed area? Mark responded that an IM had been accomplished there and therefore didn't fall into this category.

Mark stated that there was an RFI modification dealing with RGOs. The Zone E area is 95% covered. There is a basic assumption that is being made - all surface features have been removed and the risk assessment will be based on this. The permit requires site specific RGOs prior to going into the CMS. No site specific RGOs will be specifically identified. Most of the risk assessment is hypothetical since there is no existing pathway. RGO is a definite point and does not consider risk reduction overall. A Comprehensive RGO Equivalent table will be provided.

Doyle stated that we must go through the permit requirements on risk assessment. Perform a risk assessment for both industrial and residential for the uncovered scenario and then provide supporting information for the risk management which comes later. Kevin and Sandy stated that we must meet the regulatory requirements of the permit. Dave stated that was not opposed to doing risk assessment but wanted to limit the amount of information necessary. Wants to develop trust and allow Ensafe to show the results. For the exceptions a full risk assessment would be performed. Doyle and Sandy commented that it is not a matter of trust but more an issue of understanding.

Mark continued with discussion of the technical approach stating that the risk/hazard estimates would use COPCs. Paul question if background concentrations can be affected by the operations on the Base that this may create a moving target for COPCs? Concerned that this had been an industrial site for so long that use of COPCs for background could pose a problem. Mark stated that this had been recognized but that the process had to move on. Background levels in Zone H were very conservative. Paul concerned how this would be explained to someone who is not familiar with it.

Paul asked if the Residential Surface Soil Risk and the Residential Surface Soil Hazard could be presented on an overlay to show a combination of both risk and hazard? Mark stated that this could be done and used in the risk management.

Johnny asked why risk and hazard were only being done for surface and GW? Why not subsurface where a building or slab could be removed? Mark stated that just removing all of the cover was a major jump - considering subsurface would be of major magnitude. Dave stated that this may be possible. The RDA asked Doyle about this concerning utility work. Dave asked how many different scenarios can / should be looked at? The question was asked what if a slug of subsurface contamination was found would it be addressed? The response was - yes.

The Zone E investigation is ahead. Ted Simon was involved in the data presentation format. This is an abbreviated format to make decisions. The process is there. Soil to water transfer will be handled more in the traditional manner.

Paul stated that if the risk / hazards estimates are calculated at each sample location based on cover being removed (ie surface soil exposure) that it is very important in presenting to the RAB all assumptions to make it very clear.

Mark summarized the modified format (attached).

Mark stated that this format was being used at non-DoD activities, especially DoE. This helps to identify risk / risk reduction. Sandy stated that she is from DoE and that they were looking at the big picture - risk based vice concentration based or calculated numbers. This will make it easier to demonstrate to the public by keeping details available but presenting a summary. Doyle asked if there are any DoE facilities in EPA Region IV using this (ie has Elmer Akin agreed to this format). Doyle asked if Mark would discuss this with Elmer and obtain his buy-in. This will impact other Region IV sites.

**Mark has action to discuss the revised process with Elmer Akin by 12/10. Tony has action to provide the organic background technical memorandum to Elmer Akin by 11/15.**

Johnny asked if this approach has been used at any DoE sites? Sandy said it is used at the EXD facility at Oakridge, Tennessee.

Paul stated that we need to keep in mind who this was being provided for - Public/RDA/RAB.

***Consensus passed to pursue the use of the reformatted approach contingent on reviewers agreements.***

Doyle has several concerns:

1) Second bullet under issues, 1<sup>st</sup> page of handout - Considers a Baseline Risk Assessment (BRA) should be done for both residential and industrial. Mark replied that the potential for exposure pathways would be used - no exposure path, no risk. With the cover taken away there is an infinite number of scenarios. A point risk assessment has been accomplished using site specifics. This allows future evaluation if area is exposed.

BRA is being accomplished point by point vice site wise which meets all regulatory requirements.

2) Technical issues, #3 - Need to define what was done conservatively - ie concrete removed. Concerned that this implies risk management when we need to do a solid risk assessment. For the exceptions there is an exposure pathway since there is no cover. This can be assessed in the traditional manner.

Paul commented on the second bullet under Purpose/Benefits - Are there only going to be maps that show risk? Is there a map that delineates very high concentrations? Greg showed a map that does this - only maps that contribute significantly to risk.

Paul also asked that maps be provided where MCLs are exceeded. Ensafe agreed to do this. Paul stated even though GW is not used for drinking it must be addressed. Greg pointed out that it is addressed.

Johnny asked how will this new approach comply with the new permit? Tony stated that the permit application will provide what the Navy would like to see in the model language. Todd stated that the Comprehensive RFI Workplan was written around the new permit language.

Doyle stated that a BRA should be done for all sites that have an exposure pathway (ie SWMU 54 had a pathway but was not listed since the DET has performed an IM).

Johnny stated that ARARs are not to be used - these should be MCLs.

***PT consensus passed that the Zone E RFI Report format streamlines the RFI reporting process consistent with regulatory permit requirements, contingent with the concurrence of Elmer Akin and State technical review parties.***

#### V. Effects of IM Removal Actions -

Doyle asked how the IMs were being handled in the RFI reports? It was agreed in Atlanta that Ensafe should not revise reports at IM sites, but note in the report that an IM is being performed or scheduled. The report would only show what Ensafe had determined during the investigation. Greg Temple stated that a method needs to be developed to feed the results of the IMs back into the RFI. Doyle stated that IMs are ways to reduce migration of contamination. Even though an IM has been performed, steps for site assessment must be accomplished. Still need to accomplish the risk assessment based on Ensafe's sampling. The results of the IM can be addressed in the CMS. This supports why an IM is accomplished.

Dave asked what if the risk assessment shows that the IM did not need to be accomplished? Doyle stated that EPA would tell the truth. Would rather cleanup a clean area vice let a contaminated area go uncleaned and continue contaminating the environment.

***PT consensus passed that IM sites will be reported in the RFI report as if no action has been taken and the RFI data reflects the “Baseline Condition”. The Report will indicate if an IM has occurred. Impact of the IM sites will be addressed in the CMS.***

Paul stated that he thought that confirmatory sampling would be accomplished in the IM. Kevin stated that this would be on a case by case basis. Johnny stated that the CMS could also take care of any required confirmatory sampling.

VI. Fate and Transport was presented.

Dave was asked if this new format would impact any schedules or cost. Dave stated that he did not see any impacts at this point. As stated earlier, Zone E is going well.

Based on the Zone E 90% presentation need to decide if any additional samples are required in Zone E. ***PT consensus passed that no additional sampling was needed in Zone E except where contamination is indicated coming from Zone D.***

#### Zone J Approval

Jay Cornelius provided a handout. Summary of State and EPA Zone J comment agreement follows:

States comment - State agreed to Ensafe resolution.

EPA comments:

General	(1) resolved
	(2) noted
Specific	(1) resolved
	(2) resolved
	(3) agreed to resolution - requires action
	(4) resolved
	(5) resolved
	(6) resolved
	(7) resolved

**Ensafe has action to incorporate changes to Zone J RFI Workplan for comment resolution by 11/18 and submit to the State and EPA by 11/20.**

**DHEC/EPA have action to provide approval by 11/27.**

**Ensafe action to issue final workplan by 12/9.**

## IM Status

Kevin provided the following IM status:

- SWMU 83 (building 9) 80% complete (process closure)
- SWMU 8 (oil sludge pits) collecting samples
- AOC 503 (UXO) clearing brush for Indian Head survey
- AOC 653 (hobby shop) excavation complete awaiting SOUTHDIV direction
- AOC 159 (package shop) excavation found chrysene awaiting SOUTHDIV direction
- AOC 626 (via duct) pigging lines expect to start excavation in December
- Bldg 44 (process closure) at SOUTHDIV for review. Doyle says this is a unilateral decision. If want EPA/State review will do.
- SWMU 6/7, AOC 635 (old corral) in State and EPA review
- AOC 574 (tank at building 9) in State and EPA review
- SWMU 5 (battery cracking area) to State and EPA this week
- SWMU 14 (chemical disposal pond) to State and EPA this week

**Bobby/Kevin action to review Building 68 as possible IM by 1/14.**

## Cecile's Evaluation

Accomplishments:

- ♥ Team continues to have good preparation for the RAB
- ♥ Team made good preliminary effort to develop mission and vision statements; will finalize in December.
  
- ♥ Team came to consensus on the following:
  - How to increase confidence in team's risk assessment decisions
  - Finalized CMS schedule which will be reflected in revision of CAMP dates
  - State's comments on Zone B, resulted in PT agreement to include maps and tables to satisfy State's needs in the future
  - Streamlined zone report formats beginning with Zone E, resulting in time and cost savings
  - Method of reporting IMs in RFI reports and including in CMS
  - No further sampling needed in Zone E; final report to be prepared
  - Responses to comments on Zone J workplan
  
- ♣ Suggestions for improvement:
  - Conversations occur outside the PT between limited PT members, the result of which affects other PT members, and is held until the next PT meeting resulting in potential conflicts and unnecessary surprises.
  - All PT members are not participating, and sometimes not paying attention to all PT discussions. This causes unnecessary delay when a decision is needed. PT members need to repeat what has already been discussed.

- PT continues to desire extensive minutes, yet they do not review, or remember the contents of the minutes causing them to reopen previously closed issues. PT should consider summary of minutes highlighting the decisions.
- PT needs to make better effort to adhere to time allotted per agenda item. It was suggested last month to reconsider appointing a gate-keeper.
- There are too many side conversations during the PT meeting. There may be some relevant comments that are not being shared with the PT.
- Due to the size of the team, members should raise their hands before commenting or asking questions. This will help to ensure all PT members' questions and comments are addressed.
- PT should consider a 1 1/2 to 2 day devoted training session on Management and Planning Tools. It was suggested for February locally.
- PT should begin developing team members' roles and responsibilities.
- PT should consider attending SC State Tier II Partnering training in January.

**RAB Meeting Comments:**

- Presentation on risk assessment was well received by RAB, and was a good lead into presentation on Zones C and I.
- Presentation on Zones C and I were the result of a draft report that all PT members had not had time to review prior to this presentation. In order that the PT be more prepared to respond to questions, it should be determined whether all PT members have reviewed the report, if not, the presentation should be postponed. It was also suggested that such draft reports be reviewed jointly by all PT members at a PT meeting which would eliminate problems and better prepare PT for questions. Also, the final approval on the report should occur without incidence,
- PT continues to be concerned about the lack of public interest and attendance.

Next Meeting

December 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup>.  
 Location to be determined  
 Leader - Ann Ragan

**Agenda items:**

Background Organics Technical Memorandum	<i>(Decision)</i>	Tony Hunt
MBTI	<i>(Training)</i>	Cecile Lacey
Comprehensive CMS Workplan Scope	<i>(Decision)</i>	Robert Moser
Zone K RFI 30% Review	<i>(Decision)</i>	Lawson Anderson
Zone A RFI Report Approval	<i>(Decision)</i>	Lawson Anderson
Zone H RFI Report Approval	<i>(Decision)</i>	Todd Haverkost
Zone L RFI Workplan Approval	<i>(Decision)</i>	Jack Mayfield
Zone D RFI 90% Review	<i>(Decision)</i>	Craig Smith
Zone F RFI 60% Review	<i>(Decision)</i>	Craig Smith
Zone G RFI 60% Review	<i>(Decision)</i>	Craig Smith

CTF Holding Pond Review  
Academia Involvement  
AOC 636 Strategy  
AOC 633 Concrete Pits  
Mission and Vision Statement

*(Discussion)* Daryle Fontenot  
*(Decision)* Tony Hunt  
*(Decision)* Kevin Tunstall  
*(Information)* Tony Hunt  
*(Discussion)* Cecile Lacey

**Action Items From November 12<sup>th</sup> and 13<sup>th</sup> Meeting**

<b>ACTION</b>	<b>ECD</b>	<b>ASSIGNED TO</b>
1. Meet with RDA to discuss Chicora Tank Farm	TBD	Daryle
2. Provide input on environmental investigations at CTF to Doyle	11/15	Daryle
3. Issue Background Organic technical memorandum	11/15	Tony
4. Review Background Organic technical memorandum for December PT discussion	12/10	Team
5. Revise RFI/CMS schedule dates	11/15	Todd
6. Revise CAMP dates based on RFI/CMS schedule	11/22	Tony
7. Review Academia Proposals for discussion at December PT meeting	12/10	Team
8. Provide comments on academia involvement to Tony	12/4	Team
9. Prepare Fact Sheet on RAB OSHA concerns	12/10	Daryle
10. Discuss risk process with Elmer Akin	12/10	Mark Bowers
11. Provide Background Organic technical memorandum to Elmer Akin	11/15	Tony
12. Incorporate changes to Zone J RFI workplan	11/18	Todd
13. Submit Zone J RFI workplan to State and EPA	11/20	Todd
14. Provide Zone J RFI workplan approval	11/27	State/EPA
15. Issue final Zone J RFI workplan	12/9	Todd
16. Review Building 68 for possible IM	12/10	Bobby
17. Breakout steps for 30/60/90% reviews for PT	1/14	Bobby
18. Schedule 1 1/2 - 2 day management planning tool training	TBE	Team
19. Develop PT member roles and responsibilities	TBE	Team
20. Determine purpose and history of cement pits around AOC 633	12/10	Tony
21. Provide methodology to be used at AOC 636 to locate possible munitions.	12/10	Kevin
22. Resolve permit issues with CSO/RDA	12/10	Daryle

**Naval Base Charleston Project Team Meeting  
November 12 and 13, 1996**

**Attendance Sheet**

<u>NAME</u>	<u>ORGANIZATION</u>	<u>PHONE</u>	<u>FAX</u>
Tony Hunt	SOUTHDIV	(803) 820-5525	(803) 820-5563
Brian Stockmaster	SOUTHDIV	(803) 820-7481	(803) 820-5563
Johnny Tapia	SCDHEC	(803) 896-4179	(803) 896-4002
Todd Haverkost	E/A&H	(803) 884-0029	(803) 856-0107
Kevin Tunstall	DETCASN	(803) 743-6777	(803) 743-9413
Bobby Dearhart	DETCASN	(803) 743-2821	(803) 743-0174
Doyle Brittain	USEPA	(404) 562-8549	(404) 562-8518
Ann Ragan	SCDHEC	(803) 734-4721	(803) 734-5407
Paul Bergstrand	SCDHEC	(803) 896-4016	(803) 896-4002
Daryle Fontenot	SOUTHDIV	(803) 820-5607	(803) 820-5563
Dave Backus	E/A&H	(901) 372-7962	(901) 372-2454
Cecile Lacey (facilitator)	Galileo	(401) 762-2391	(401) 762-2133
Sandy Reagan	E/A&H		
Craig Smith	E/A&H		
Amy Stehlin	E/A&H		
Wayne Cotton	SOUTHDIV		
Mark Bowers	E/A&H		
Greg Temple	E/A&H		
Jay Cornelius	E/A&H		

**Summary of Proposed RFI Format Modifications  
for Naval Base Charleston Zone E**

<b>Traditional</b>	<b>Proposed</b>
Site Background & Investigative Approach	Omit - Information will be included in earlier sections of the site-specific discussion (sample numbers, analyses, etc.)
COPC Identification	COPC Identification - identical approach will be followed with RBC and background screening; site-specific tables and summary text
Exposure Assessment	Omit in Part, Replace in Part
Exposure Setting	Omit - Descriptive information will be provided in earlier sections; risk assessment related details will be included in the generic text (Section 6)
Potentially Exposed Populations	Omit - Descriptive information will be provided in earlier sections; risk assessment related details will be included in the generic text (Section 6)
Exposure Pathways	Omit - Descriptive information will be provided in earlier sections; risk assessment related details will be included in the generic text (Section 6)
Exposure Point Concentrations	Replace - Individual sample location concentrations are applied in fixed point risk/hazard estimates
Quantification of Exposure	Replace - Master remedial goals table will be derived for all COPCs from standard exposure assumptions(RiskCharacterization); identical information imbedded in assumptions underlying remedial goal values used to construct maps
Toxicity Assessment	Toxicity Assessment - Identical information will be provided in the form of a single master table for toxicity values and a comprehensive toxicological briefs section
Risk Characterization	Replace - Point risk/hazard estimate maps for each applicable receptor/medium/pathway/ mode of action combination will be provided; Comprehensive site-specific tables will accompany maps showing COPCs, concentrations, and risk/hazard contributions on a direct and percentage basis.

**Summary of Proposed RFI Format Modifications  
for Naval Base Charleston Zone E**

Traditional	Proposed
Risk Uncertainty	Risk Uncertainty - Identical information will be provided in a manner which avoid needless repetition where the same factors affect multiple sites.
Risk Summary	Risk Summary - A comprehensive narrative discussion will be drafted to discuss primary risk/hazard contributors on a site (or group) specific basis.
Remedial Goal Options	Omit - Comprehensive RGO equivalent table will be constructed as part of the risk characterization mapping step described above.

**NOTES:**

Additional maps will be provided which will exclude common anthropogenic (BEQ) and naturally-occurring (As, Be) chemicals which are identified as significant contributors to risk and/or hazard at SWMUs/AOCs across the zone.

Exceptions: Those sites which are not currently covered with concrete, asphalt and/or buildings and provide legitimate current potential for soil and/or groundwater pathway completion will be handled in the traditional manner UNLESS the Shipyard Detachment has performed remedial action.

Lead related issues will be addressed through maps which plot exceedances of ARARs or IEUBK derived thresholds for children, adults and future site workers.

### Action Items From November 12<sup>th</sup> and 13<sup>th</sup> Meeting

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1. Meet with RDA to discuss Chicora Tank Farm	TBD	Daryle
2. Provide input on environmental investigations at CTF to Doyle	11/15	Daryle
3. Issue Background Organic technical memorandum	11/15	Tony
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8. Provide comments on academia involvement to Tony	12/4	Team
9. Prepare Fact Sheet on RAB OSHA concerns	12/10	Daryle
10. Discuss risk process with Elmer Akin	12/10	Mark Bowers
11. Provide Background Organic technical memorandum to Elmer Akin	11/15	Tony
12. Incorporate changes to Zone J RFI workplan	11/18	Todd
13. Submit Zone J RFI workplan to State and EPA	11/20	Todd
14. Provide Zone J RFI workplan approval	11/27	State/EPA
15. Issue final Zone J RFI workplan	12/9	Todd
16. Review Building 68 for possible IM	12/10	Bobby
17. Breakout steps for 30/60/90% reviews for PT	1/14	Bobby
18. Schedule 1 1/2 - 2 day management planning tool training	TBE	Team
19. Develop PT member roles and responsibilities	TBE	Team
20. Determine purpose and history of cement pits around AOC 633	12/10	Tony
21. Provide methodology to be used at AOC 636 to locate possible munitions.	12/10	Kevin
22. Resolve permit issues with CSO/RDA	12/10	Daryle

# PT AGENDA

**Naval Base Charleston  
Environmental Cleanup Project Team  
Meeting Agenda  
December 10, 11, and 12, 1996**

Leader - Ann Ragan  
Scribe - Bobby Dearhart

\* *Palmetto Conference Center @ Charleston Air Force Base*

\* *Note: RAB begins at 3:00 at St. John's Catholic Church.*

**December 10, 1996**

8:00 - 9:00	Introduction Ground Rules Revise Agenda Prioritize Agenda Define Objectives of Meeting Review Action Items from November Meetings Review RFI/CMS Schedule		Ann Ragan
9:00 - 11:00	Pre-RAB Presentation [includes Break]	<i>(Discussion)</i>	Project Team
11:00 - 12:00	Background Organics Technical Memorandum	<i>(Decision)</i>	Tony Hunt
12:00 - 1:00	Project Team Accomplishments	<i>(Discussion)</i>	Doyle Brittain
3:00	<i>RAB [See note above]</i>		

*FIRST THING THURS. MORNING*

**December 11, 1996**

8:00 - 8:30	Post-RAB Meeting Critique	<i>(Discussion)</i>	Ann Ragan
8:30 - 10:30	MBTI	<i>(Training)</i>	Cecile Lacey
10:30 - 10:45	Break		
10:45 - 12:00	Comprehensive CMS Workplan Scope	<i>(Decision)</i>	Robert Moser
12:00 - 1:00	Lunch		
1:00 - 1:15	Zone K RFI 30% Review	<i>(Decision)</i>	Lawson Anderson
<del>1:15 - 1:45</del>	<del>Zone A RFI Report Approval</del>	<i>(Decision)</i>	Lawson Anderson
1:45 - 2:00	Break		
2:00 - 3:00	<del>Zone H RFI Report Approval</del>	<i>(Decision)</i>	Todd Havcrkost
3:00 - 3:30	<del>Zone L RFI Workplan Approval</del> APPROVED	<i>(Decision)</i>	Jack Mayfield
3:30 - 4:00	Zone D RFI 90% Review	<i>(Decision)</i>	Craig Smith
4:00 - 4:45	Zone F RFI 60% Review	<i>(Decision)</i>	Craig Smith
4:45 - 5:00	Break		
5:00 - 6:00	Zone G RFI 60% Review	<i>(Decision)</i>	Craig Smith

12/03/96 00:11

12/03/96

00:11

00:11

## Naval Base Charleston Environmental Cleanup Project Team Meeting Agenda December 10, 11, and 12, 1996

*December 12, 1996*

8:00 - 9:00	CTF Holding Pond Review	<i>(Discussion)</i>	Dwyle Fontenot
9:00 - 9:30	Academia Involvement	<i>(Decision)</i>	Tony Hunt
9:30 - 10:00	Next Meeting	<i>(Decision)</i>	Ann Ragan
	Date, Time, Place and Leader		
	Set Agenda		
	Review Action Items and Parking Lot		
	Set December Conference Call		
10:00 - 10:30	Close-out and Wrap-up		Cecile Lacey
	DISCUSS DHEC SITE VISIT TO BASE		

Items not included:

- AOC 636 Strategy - 10 min
- AOC 633 Concrete Pits - 10 min
- ~~Mission and Vision Statement~~
- GROUND WATER MODEL - 10 min

PT MINUTES

**Naval Base Charleston Project Team  
Meeting Minutes  
December 10 and 11, 1996**

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List of attendees is attached.

Ann read the Ground Rules.

Agenda changes for the meeting were made with the following additions:

- RBCA vs RBC (Brian)
- Lead levels (Brian)
- SWMU 25 additional sampling (Brian)

The Mission and Vision will be rescheduled until the 1 1/2 - 2 day planning meeting.

Paul stated that he and Johnny would like to tour the Base sites on Thursday afternoon.

Tier II partnering training will be in January. Anyone can attend. Doyle would like the PT to attend as a Team. Ann stated that the training is geared towards new members who have not been through partnering training. It was agreed that the PT will not attend as a team. This can be discussed later with the 1 1/2 - 2 day planning and team building meeting.

RFI/CMS Schedule

*PT consensus passed on the revised dates with the below discussed changes.*

Todd provided a handout with the revised dates. Tony was concerned that the schedule was prepared before the CMS outline was agreed. Recommended that the PT agree on the CMS and then let Ensafe verify that the dates are achievable. Doyle stated that he needs to know the dates to be able to schedule EPA personnel. Ann proposed that the CMS process be discussed during the PT meeting. After the PT has had a chance to review the process, it could be discussed during the December conference call. Doyle stated that this was not acceptable, that the dates needed to be established as soon as possible. Cecile stated that the PT needed to ensure that the dates committed were doable.

Dave and Todd do not think that the dates and durations will change. The most important thing is that the CMS comes after the RFI milestones. If the RFI reports do not get approved on schedule the CMS will fall behind. The CMS is cut and dry - straight forward.

Tony stressed that the schedule will be used to construct the CAMP. The PT needs to address the dates that are being missed. This is especially applicable to the Zone A, B and H RFI reports. **Johnny has action to provide new dates for State approval of the RFI reports which have been submitted by 12/11.**

Daryle stated that this will provide an opportunity for the PT to disavow the criticism of the RDA. Bobby stated that the PT does not work for the RDA, but understands the criticism.

Status of Action Items From November 12<sup>th</sup> and 13<sup>th</sup> Meeting

ACTIONS FROM NOVEMBER PT MEETING	STATUS
1. Meet with RDA to discuss Chicora Tank Farm	Action complete. The RDA will only agree to complete demolition. RDA chairman will discuss with North Charleston mayor to determine if North Charleston will accept partial demolition.
2. Provide input on environmental investigations at CTF to Doyle	Action complete.
3. Issue Background Organic technical memo	Action complete.
4. Review Background Organic technical memo for December PT discussion	Action complete.
5. Revise RFI/CMS schedule dates	Action complete
6. Revise CAMP dates based on RFI/CMS schedule	Reschedule to 12/11. New date will be provided based on revised review dates.
7. Review Academia Proposals for discussion at December PT meeting	Action complete.
8. Provide comments on academia involvement to Tony	Action complete.
9. Prepare Fact Sheet on RAB OSHA concerns	Reschedule to 1/14.
10. Discuss risk process with Elmer Akin	TBD. Mark spoke to Elmer. Ted Simon will be back at EPA in January. Elmer would prefer for Ted to address this. Dave does not expect that this will affect Zone E.
11. Provide Background Organic technical memo to Elmer Akin	Action complete. Technical memorandum was provided to Elmer. Doyle reviewed with no problems. Will not provide definite approval but can be handled as a pilot project
12. Incorporate changes to Zone J RFI workplan	Action complete.
13. Submit Zone J RFI workplan to State and EPA	Action complete.
14. Provide Zone J RFI workplan approval	State not complete. To discuss 12/13.
15. Issue final Zone J RFI workplan	Reschedule to 12/20.
16. Review Building 68 for possible IM	ECD 1/14.
17. Breakout steps for 30/60/90% reviews for PT	ECD 1/14.

*COMPLETE*  
*COMPLIS*

18. Schedule 1 1/2 - 2 day management planning tool training	TBD
19. Develop PT member roles and responsibilities	Action deleted by PT consensus.
20. Determine purpose and history of cement pits around AOC 633	Action complete.
21. Provide methodology to be used at AOC 636 to locate possible munitions.	Action complete.
22. Resolve permit issues with CSO/RDA	A memorandum will be issued to tenants to refer to the requirements of the lease. RDA does recognize ownership of the permits.

Pre-RAB Presentation

• CTF - Daryle stated that a meeting was held with the RDA on 12/5 to discuss issues why the Navy proposals were unacceptable to the RDA. RDA remains firm on their disagreement with partial demolition of the tanks. The RDA chairman will be meeting with the North Charleston mayor to discuss if North Charleston would be interested in accepting the property with the tanks partially demolished. Ann stated that this may be to our advantage in that it puts the responsibility on the RDA and North Charleston to work out the problems.

It was stated that Gabe would make the CTF presentation on the previous environmental investigations to the RAB. Doyle considers that the technical aspects are not the issues. The RDA wants the tanks leveled. The technical issues are a smoke screen. It needs to be stated that the North Charleston community RAB members and the North Charleston city RAB members should go to the North Charleston City Council and make it clear that the partial demolition is the option that the RAB supports. Need to let the local officials know what the RAB wants. Doyle concerned that if the RDA drives the CTF decision then it will set a precedent that could affect other areas such as SWMU 9. Ann reminded that it may not be a problem if the RDA does not accept the option and will not accept the property. This will allow the property to go to the GSA for open public sale.

Daryle stated that the present environmental issues, the technical issues, the options and where we are on the decision process will be presented. Gabe reviewed the environmental issues and the presentation was accepted by the PT. Daryle will address the technical issues. Not sure how to address the RDA/North Charleston issue. It was agreed to take the following approach:

- no environmental problems
- technically on go for either option 1 or 3
- waiting to see if RDA or North Charleston will take the property
- reviewing use of the Detachment to accomplish the work

- Brian will review the Status of Environmental Program. During the discussion it was agreed that an agenda item needed to be added to the January PT meeting to discuss how to go from the different environmental medias to FOST.

Paul stated that we need to be prepared to address any questions on the SWMU 39 off Base contamination and stressed the need for the Navy to formally transfer responsibility of private well contamination discovered during the investigation of SWMU 39. Paul also was interested in touring the off Base sites and seeing what is up gradient from the Base.

- Brian will present IM status
- Daryle will discuss RAB member issues.

*PT consensus passed on the RAB agenda and presentation.*

### Organics Background

Tony stated that he had received a letter from Doyle's review of the Technical Memorandum.

Johnny asked if the background being calculated was really true background since the Navy has had influence over the area for many years? Do grid samples really represent background? Doyle stated that this has been discussed for the past 4 years. The State has required that cleanup be to background. What is background? We would need to go many miles away from the Base to get to an area that has not been influenced. The procedure for determining background was approved in the Comprehensive RFI Workplan. Doyle asked how the Technical Memorandum differed from the Comprehensive RFI Workplan? Todd stated that the Comprehensive RFI Workplan speaks to inorganics. The Technical Memorandum addresses only organics in a different way. Consideration from contribution from dredge materials and atmospheric conditions are presented. The approach is not complex statistically. It is basically 2X background which is an anthropogenic background. Dave stated that it establishes what is so widespread over the Base. At the levels being seen it can be statistically shown that there is no risk. Doyle stated that we should try it since the levels are so low.

Tony stated that the approach allows to differentiate the site impacts versus the Base impacts. Also allows IDW disposal to be placed back on site, which will save money and still be protective.

Paul asked if there were any community or CTF values to compare what is being seen on Base. Tony responded that there are not any.

Tony stated that establishing initial background using normal statistics must establish background for non-detects (2X background). This is the number to be used to cut off the assessment. Actual numbers will be used in calculating risk. This will be established zone by zone same as for inorganics.

Doyle asked if the numbers were cranked out in a risk assessment would they be industrial, residential, or below residential. Todd responded that they would probably be below residential.

Sandy stated that some type of limit must be set since we can not dig up the whole Base. Todd stated that this was to be used more as a risk management tool. Tony would like to use it for disposal of IDW.

Paul asked if we have a range throughout the zones - high/low? Concerned that the zones are arbitrary. Todd stated that they can begin calculating the numbers and report the results to the PT.

The State recommended putting organic background on the Parking Lot and continue to review for discussion at the January PT meeting. **Todd has action too calculate numbers for other zones (A, B, C, I, H) that have reports submitted and provide 2X background by 1/14.**

**State has action to discuss proposal and determine future use of organic background by 1/14.**

### RBCA

Brian referred to the E-mail that he had sent out earlier concerning use of RBCA for cleanup levels.

Todd was concerned that SSLs are being referred to as cleanup levels. These are really screening levels. Site specific numbers should be used for cleanup. (ie At SWMU 159, Chrysene was detected. Based on RBCA and Region III RBC this was a problem. Based on the site specific calculations the level detected was protective of human health)

Paul stated that RBCA is for virgin petroleum sites. Brian stated that this is correct and that other metals and PCBs would be sampled based on site information.

***PT consensus passed that IMs use RBCA components vice TPH and that cleanup levels will be calculated using the EPA soil screening guidance as previously agreed on September 10.***

### Lead Levels

Brian proposed that 1300 ppm be used as the cleanup level for lead on IMs.

Kevin asked why IMs are only being looked at as going to industrial levels. Brian stated that an IM should at least go to industrial - this will be used as criteria for selecting IMs.

Brian stated that 1300 ppm industrial level was based on a comment from EPA on the RFI report for Zone H. A level of 1000 ppm was in the RFI report for toxicity of lead. A 400 ppm level was used for residential. These levels would be applicable based on reuse.

State does not agree that reuse drives cleanup.

Doyle asked if the higher levels for lead would effect any site work in Zone H? Bobby stated that it would. Doyle stated that he would have to reconsider IM workplans that he has already approved. Doyle also concerned that we leave a scoping meeting with agreement then unilaterally change what was agreed. This may cause problems with parallel reviews of IM workplans (Navy review at same time that State and EPA reviews are accomplished).

Bobby stated that the change in lead levels will definitely affect SWMU 5 (AOC 620 and AOC 621) and SWMU 6 (SWMU 7). Doyle stated that if the higher levels were to be used he withdraws his approval on the workplans. Brian stated that this does not mean that the workplan scope will be changed. He just wants 1300 ppm lead agreed to as the industrial level.

Paul concerned that this level will limit the effectiveness of the IM by not cleaning up to residential. The goal is to accomplish IM to same as final remedial action where possible.

Consensus failed on using 1300 ppm lead as IM cleanup level. Consensus failed on using 400 ppm lead as a target and higher levels as deemed necessary.

Doyle stated that he has requested Elmer Akin to identify where the 1300 ppm was developed.

***PT consensus passed that IM cleanup levels for lead will be site specific ranging from 400 ppm (residential) to 1300/1000 ppm\* (industrial).*** \*[Decision to use 1300 ppm or 1000 ppm was based on input from EPA].

**Brian has action to propose site changes to IM workplans in review by 1/14.**

Later in the meeting Doyle presented a report from Elmer Akin on the EPA suggested lead levels:

- for residential           ≈ 400 ppm
- for industrial            ≈ 1500 ppm

The 1300 ppm was based on Ted Simon's review. This is considered to be conservative. Lead should be handled as a site specific issue.

### Project Team Accomplishments

Doyle presented concerns centering around the Naval Base PT:

- at East Coast BRAC conference NAVFAC headquarters stated that the Charleston team was not a success
- has been stated that this is the most dysfunctional team

- at conference in San Diego RDA was critical that there was no progress at Charleston

This presented a message to Doyle that the PT was a failure, not supporting the RDA or the Navy transfer of property. Doyle felt the PT should take an offensive stand vice a defensive stand by developing a status and accomplishment report to demonstrate exactly what the Charleston PT has accomplished.

Ann concerned that if we are doing this just for the RDA that it will not stop the criticism. We will continue taking hits from the RDA. Doyle agreed but wants to provide a formal presentation to the RDA and make this a long term effort to demonstrate that the comments are not based on fact but false perception. Main interest is to publicize success stories because the PT feels good about it - not because of Tier II, Cecile Field, etc. This could be provided to the RDA, RAB, community, etc. to show what has been accomplished by the PT.

Paul recommended that the accomplishments over the year be presented on a yearly basis every January to the RAB. Doyle would like to make the presentation and show what a big job that the Naval Base is.

Daryle stated that Commander Berotti had developed a comparison of the different BRAC bases. Charleston was #3 behind Cecil Field and Memphis in accomplishments. To be successful must be able to show benefits with completion of the RFI - time, money, etc.

Dave stated that the people who are putting out the criticism do not have any idea of what is required or happening at Naval Base Charleston. Recommended that Diane Cutler, Ensafe public affairs specialist, put together the metrics and the PT provide the savings. Dave used the example that Ensafe is working with expenditures at approximately 50% of the budget which is a big savings.

Daryle stated that we will not be able to resolve "want it now", but only do our best to expedite the cleanup and transfer of property.

The following ideas were identified during a brainstorming session:

- ♥ Detachment - tank pulls
  - asbestos
  - IMs
  - time and money saved
  - IDW/recycling
- ♥ better documents
- ♥ use E-mail vice paper
- ♥ cost savings compared with budget
- ♥ thorough RFA - 36 to 396 HW sites
- ♥ improvement in level of team work
- ♥ adoption of standard procedures
- ♥ gain extra money for State support
- ♥ strive to achieve effective working relationship with community
- ♥ 90% complete with RFI
- ♥ streamlined IM process
- ♥ improved monitoring well approvals
- ♥ change out of sections in documents vice whole documents
- ♥ ID standard versus where we are now [business as usual vs Fast Track]
- ♥ better technical decisions
- ♥ SWMU 39 expediency
- ♥ willing to try new and better processes

- ♥ use of innovative planning documents [comprehensive documents]
- ♥ determined NFA for many sites
- ♥ issued \_# FOSLs for \_# buildings and \_# acres
- ♥ multimedia approach to RFI
- ♥ massive investigation without hindering reuse
- ♥ having fun

- [risk on hazard map]
- ♥ completed rad survey of buildings and property
- ♥ zone approach to expedite RFI
- ♥ comprehensive EBS on 853 buildings in 4 months under budget
- ♥ established high trust between team members

*PT consensus passed to begin work on success stories.*

**Action for Ensafe to prepare presentation for February RAB ready for discussion at January PT meeting. ECD 1/14.**

Post RAB Critique

The PT provided the following observations from the December 10<sup>th</sup> RAB meeting:

PLUS	MINUS
<ul style="list-style-type: none"> <li>• Gabe’s presentation</li> <li>• maps with minutes useful</li> <li>• good handout material</li> <li>• Doyle’s save on Eco system</li> <li>• team members stepped in when needed</li> <li>• Wannetta volunteered to send letter on behalf of RAB</li> <li>• RAB members supported previous CTF decision</li> <li>• good meeting location</li> <li>• Brian’s presentation good</li> </ul>	<ul style="list-style-type: none"> <li>• report annual successes in January</li> <li>• public involvement - RAB needs to be more active with community groups/activities</li> <li>• taking applications for new RAB members; need diversity; number of North Charleston city official members</li> <li>• no mention of SWMU 39</li> <li>• telephone ringing</li> <li>• CTF did not create anticipated discussion</li> <li>• no straight answer on transferring property</li> <li>• RDA tends to dominate public meeting; does not openly communicate with team</li> <li>• RDA will come against team on CTF - How is RDA using team?</li> <li>• CTF presentation stopped short of explaining full deal - ie how does option 1 still fit in?</li> <li>• meeting should be in permanent location</li> <li>• need to prepare RAB for CMS decisions - How does team accomplish this?</li> </ul>

MBTI

Cecile lead the PT through a discussion on the MBTI results.

### SWMU 25 Additional Sampling

Brian discussed the need for additional sampling at SWMU 25 (Building 44). Johnny concerned that additional sampling was necessary based on the site visit in November. Brian stated that if we need additional sampling that it should be accomplished during the RFI. Johnny concerned that there was only one sample near the manhole. Need to know what may be under the manhole. Brian stated that if this is the case then it should be accomplished during the RFI. Bobby stated that after the manhole is removed during the process closure that it was expected to be backfilled. How will this affect sampling?

***PT consensus passed to continue on with the demolition of Building 44 and the RFI report in Zone E. Any additional sampling will be accomplished after the demolition is complete and included in the CMS.***

It is anticipated that this site will go into CMS. Doyle expressed that the CMS can be as much or as little as necessary.

### AOC 636 Strategy

Kevin explained the need to perform a munitions survey at AOC 636. This is based on the former use of the area as a torpedo assembly area and the potential of munitions discarded. The procedure to be used for clearing the area will be the same as that which is being used to clear AOC 503 which has been previously approved by the State. ***PT consensus passed to include AOC 636 as a UXO IM using the existing UXO workplan.***

### Concrete Pits at AOC 633

Tony explained that concrete pits which had been previously questioned were valve operating pits for CPW water lines. Over the past few weeks these pits have been excavated by CPW and may not exist any longer. Bobby stated that there was a unique smell coming from the areas of excavation. The concrete pits were located in an area in or near the caustic neutralization pond. Dave stated that there have been several instances of hydrogen sulfide smells from rotting matter. No further discussion was required for the concrete structures.

### Concurrent EPA/State/Navy IM Workplan Reviews

Brian explained that concurrent reviews had been initiated on IM workplans by EPA/State/Navy. Problem is that the State has been approving the workplans prior to the Navy (SOUTHDIR) review/approval.

Kevin recommended that: State, EPA and SOUTHDIV e-mail comments  
DET resolve comments  
DET e-mail resolutions to State, EPA and SOUTHDIV

**DET action to provide a flowchart for supporting concurrent IM workplan reviews and resolution of comments prior to approval. ECD 1/14.**

#### Schedule Review

A handout of the existing RFI/CMS schedule was provided.

RFI Schedule:

The following new dates were provided by Johnny for RFI report reviews and approval:

Zone A	1/31/97 for State comments
Zone B	12/13/96 for State approval
Zone H	12/30/96 for State comments
Zone I	2/28/97 for State comments

Agreed that a Document Approval Date needed to be added after the Document Approval Meeting prior to Final Approval.

Also agreed to add SWMU 39, SWMU 1 and SWMU 2 as a project since these will be added to the RFI report.

CMS Schedule:

The Zone B permit submittal will have to change dependent on the RFI report approval date.

Paul stated that 3 weeks needed to be added if FOSL/FOST were submitted. This brought up a question on how will we move to FOST? It was agreed that this will be on the January PT meeting agenda.

Tony stated that FOSL/FOST/IM/permit applications needed to be incorporated into the schedule. Bobby expressed concern that we were trying to take care of any interruption in a document that should be able to be changed if the situation arises. ***PT consensus passed to add a note to the schedule "If FOST/FOSL work load becomes excessive schedules may be impacted."***

Dave asked if Zone I (due 3/27/97) would still be a good date with all of the latest changes. Johnny stated that 3/27/97 was still satisfactory.

***PT consensus passed that the schedule is approved based on the agreed to changes.***

## Zone D 90%, and Zones F and G 60% Progress Review

Craig Smith and Amy Stehlin presented the progress review.

All phase 1 soil and ground water samples have been taken.  
Fuel distribution initial screening finished - moving to install wells.

60% of soil data validated.  
GW validations should be just before Christmas.

### Zone Background:

- D - no real surprises; no volatile chlorinated compounds found
- F - one deviation from WP. Used data from Zone E monitoring well due to proximity.
- G - one soil boring above RBC; Aroclor 1260

Doyle asked if the Zone G RBC exceedance was near the old PW corral? AOC 620 is at Building 68. Craig stated at the old PW Corral that over land transport was ruled out but that a high voltage line passed through the area.

A handout was provided for review as well as the pre-PT meeting submittal.

It was agreed that PT consensus would be obtained on all recommendations at once vice individually.

AOC 619/SWMU 4 - very industrial; BEQ > Residential < Industrial  
Recommendation: No more soil sampling until GW data is available.

SWMU 36/AOC 620 - surficial soil shows lead and aluminum under Building 68; BEQs high; elevated Aroclor 1260.  
Recommendation: SWMU 36 - no more soil samples until GW data is available.  
AOC 620 - propose 3 additional soil samples based on the results of Aroclor 1260.

SWMU 109 - Using industrial RBCs no problem with soil and don't expect any problems with GW.  
Recommendation: No additional samples until GW data is available.

Johnny expressed concern about applying industrial RBCs to everything. Need to define the extent using residential. Craig stated that metals are similar everywhere.

Doyle stated that if the site is headed for CMS no problem. If an IM is going to final action EPA is also uncomfortable using industrial only. Industrial is ok if only trying to define what is present and where it is. These will go into CMS for final evaluation.

Johnny stated that if the State agrees with the recommendations being made that it does not mean that the State is accepting industrial RBCs for final cleanup.

Todd stated that risk maps will define areas where risk exists and will not be specific to site numbers. Additional sampling can be done in the CMS if necessary.

AOC 628 - No surprises. Did not sample for PCBs.

Recommendation: No additional soil sampling until GW data is available.

SWMU 175/AOC 613/AOC 615 - Paul stated that he could not find the sediment sample results.

Craig stated that they were not in the pre-PT submittal but had been included in the other handout. Paul asked if Ensafe had seen the GEL report which showed approximately 1" of free product? Doyle asked how the GEL and Ensafe data compared? Craig stated that he would provide for January.

Recommendation: No additional soil sampling until GW data is available.

AOC 607 - Deviated from the WP inside of building (720 ppb TCE); No GW data; High SVOC and metals in sediment.

Recommendation: No additional soil samples until GW data is available.

AOC 609 - Tank has already been pulled. Did not see normal metals associated with waste oil tanks. No exceedances in subsurface. Metal levels are similar to other metals in area.

Recommendation: No additional soil samples until GW data is available.

AOC 611 - Recommendation: Purpose 3 additional soil samples due to metals to better delineate.

Paul observed that the pH at this site was lower than normal and recommended that the next 3 samples be the same for comparison.

AOC 616 - GW will be checked at AOC 607 well which is adjacent.

Recommendation: No additional soil samples unless GW data identifies a need.

AOC 617 - High metals in subsurface soils. Will possibly want 5 additional soil samples.

Recommendation: Postpone additional soil samples until GW data is available.

AOC 633 - Superficial soils show Aroclor 1260; subsurface is substantial. This area had been remediated by SCE&G earlier. It is questionable as to how satisfactory the remediation was.

Recommendation: Take 3 additional soil samples to delineate extent of Aroclor 1260.

AOC 634 - Recommendation: No more samples are required.

Doyle made a comment that if pesticides are found that a statement be made in the report that it was a common application or disposal. This will help review the report and reduce comments.

AOC 638 - Performed an explosives and propellant sweep. There was some discussion in the past that torpedo fuels had been drained to the ground or tanks. There are no concerns over UXO.

Recommendation: No more soil sampling until GW data is available.

AOC 642 - Surprisingly no lead found. Could not determine where slug backstop was located.  
Recommendation: No more soil sampling or wells at this site.

SWMU 8/AOC 636/AOC 637 - Aroclor 1260 found in 3 samples. No explosives or propellants were picked up. Brian asked if there was any indication of widespread sludges? Craig did not see any.

Recommendation: Take 7 additional soil samples around AOCs 636 and 637 for metals and SVOCs. Wait on GW data to determine if additional GW sampling will be required.

SWMU 11 - Calcium hydroxide sludge was found  $\approx$  2' thick. Potential for drainage on Base to off Base.

Recommendation: No more soil samples until GW data is available.

Doyle recommended that this site be looked at as a possible IM.

SWMU 120 - Subsurface DDE and DDD significant.

Recommendation: No additional soil samples until GW data is available.

AOC 643 - Aroclor 1260 detected.

Recommendation: Add 3 soil samples to delineate Aroclor 1260. Add 2 soil samples to delineate SVOCs.

SWMU 3 - Recommendation: Wait on OP pesticides data and GW data to make determination on any additional sampling.

SWMU 6/SWMU 7/AOC 635 - Soil sampling confirmed previous results.

Recommendation: No additional soil sampling until GW data is available.

Johnny asked why samples were not taken outside the fence in the ditch on the east side. Todd replied that some samples were previously taken there and nothing was found. Johnny replied that this is satisfactory.

AOC 646 - No exceedances.

Recommendation: No additional sampling since there were no exceedances.

AOC 706 - Area is secured and fenced. Lead and tin significantly exceed SSLs.

Recommendation: No additional soil samples or monitoring wells.

Fuel Distribution System - TPH checked; 17 screening locations high TPH.

Recommendation: Install shallow wells at 17 high TPH hits to determine if RCRA constituents are present or UST prevails.

Paul noted that natural levels of arsenic in soils range from 1 ppm to 40 ppm with a mean of 5 ppm. Are the levels at Charleston true background or elevated due to dredge material? Johnny also has same question. Todd will provide input on the arsenic and lead levels. If not enough

information may need to look further. Doyle would like Ted Simon to be involved. **Todd has action to pull data together to discuss arsenic levels with Ted Simon. ECD 1/14.**

Paul asked if the data tables were ordered in any particular manner? Craig stated that only exceedances in random order.

Johnny stated that AOC 706 had several metal hits in adjacent sediment. Could the hits in the wetlands be related to the metal hits at AOC 706? Craig responded that they could be related but that the levels are not significant.

***PT consensus passed on the recommendations made for AOCs and SWMUs in Zones D, F and G.***

Craig asked for a waiver from the State on 2 week waiting period between the well installation and well sampling. Would like to sample the wells 3 to 4 days after well installation. Paul agreed with the 3 day being the minimum.

***PT consensus passed on using RBCs for determination of any further sampling in the Zone F sites east of Hobson Avenue.***

### Comprehensive CMS Workplan Scoping

Larry Bowers provided a handout on what a CMS workplan contains.

Larry stated that he had 2 objectives:

- 1) Understand the CMS process and its role in the RCRA CAP
- 2) Obtain consensus on the general outline for the Comprehensive CMS Workplan

The RCRA process includes: RFA  
RFI  
CMS  
CMI

Any IMS/I should be completed before the CMI.

CMS - IDs, screens and evaluates alternatives

CMS does not: - recommend one alternative over another  
- suggest remediation at all sites  
- replace CMI

The CMS WP must be flexible, and is dependent and affected by specifics and complexities at each site. The Comprehensive WP will be boiler plate to eliminate duplication, but will be flexible to suit the complexity of each site. Doyle stated that the flexibility needs to be as allowed by the PT members.

The alternatives are RANKED by RCRA process and the PT. This will also involve the public.

Larry went over the general outline of the Comprehensive CMS WP. Doyle stated that it looked good but:

- 1) could not agree on Objective yet
- 2) the Technologies must be performance oriented
- 3) CAMU/TU can be used in Comprehensive as long as not abused

Ann stated that must remember that the State requires a permit modification for actions, and that waivers are not issued by trying to slip into the CERCLA arena.

It was recommended that where possible incorporate information by reference to cut down on amount of rewriting.

The purpose of the CMS is to ID, Screen and Evaluate potential remedial alternatives.

IDing - treatment technology options table (presumptive and innovative)

Screening - technologies using site characteristics, waste characteristics and technology limitations discarding what will not work.

Evaluating - RCRA guidance driven

Ranking /Selecting a Remedial Action [factors for ranking remedial actions]

Must:

- ◆ Be protective of human health and the environment
- ◆ Attain cleanup goals
- ◆ Control source of release
- ◆ Comply with applicable standards

Tie Breakers:

- ◆ Show long time reliability/effectiveness
- ◆ Reduce toxicity, mobility and volume
- ◆ Show short term effectiveness
- ◆ Ease of implementation
- ◆ Cost

These factors will be used in development of a Comparison and Ranking Table.

Ann suggested getting the RAB to buy-in to the weighing factors prior to development. **Ann has action to provide a CMS presentation to the RAB on ranking weighing factors. ECD 1/14/97.**

**Larry and Diane have action to derive method to ID request for input on weighing factors and provide to Daryle to send to RAB members prior to 1/14/97 RAB meeting.**

Sites can be grouped as deemed beneficial. This may be governed by RFI report approval.

Larry stated that one item must be resolved prior to developing the list of remedial actions - the CMS Objectives (cleanup levels). It was proposed that Risk Base be used for soils and MCLs be used for ground water. This item must be readdressed to verify that PT agrees on CMS Objectives. Item will be added to the January PT meeting agenda.

### Zone K 30% RFI Progress Review

Todd provided the following input on the Zone K progress.

Naval Annex:

Started approximately 1 month late. Soil sampling is essentially complete. Geoprobe was completed in November and after reviewing data will probably require monitoring well installation. The 8 initial monitoring wells have been installed. Still need to accomplish PCB screening at one site.

Clouter Island:

Scheduled to begin the week of 1/6/97. First step is an EOD survey.

Overall approximately 90% complete with first round sampling.

### Cecile's Evaluation

Note that Jody from Galileo will be at January PT meeting similar to Donna Kopeski in September.

Accomplishments:

- ♥ Team continues to have good prep for RAB.
- ♥ Team came to consensus on the following:
  - Comprehensive CMS WP Scope
  - Zone K RFI 30% report and how to proceed
  - Zone D RFI 90% report and how to proceed
  - Zone F RFI 60% report and how to proceed
  - Zone G RFI 60% report and how to proceed
  - How to proceed with AOC 636 and the concrete pits at AOC 633
  - Lead levels; this was a clarification with particular concern with IMs
- ♥ Team made good use of meeting time
- ♥ Team agreed to document their accomplishments noting quantifiable results where applicable
- ♥ Team reworked RFI and CMS schedule due to incomplete reviews of three zone reports

### Suggestions for Improvement

- ♣ Team continues not to review and submit comments to documents as requested causing delays in discussion and decisions (ie Organic Background Technical Memorandum)
- ♣ Each member of the PT needs to evaluate their individual attitudes and behaviors, particularly with regard to their displayed level of lack of enthusiasm and interest in the beginning of each meeting. This behavior lends to misinterpretation often resulting in defensive behavior by other team members with the potential for development of conflict. There was good discussion at the end of the meeting about this issue; the facilitator will work more closely with each team member, individually when needed, to ensure that everyone is aware of this behavior.

**Action Items From December 10<sup>th</sup> and 11<sup>th</sup> Meeting**

<b>ACTION</b>	<b>ECD</b>	<b>ASSIGNED TO</b>
1. Provide new dates for State approval of RFI reports which have been submitted	12/11/96	Johnny
2. Calculate organic background numbers for Zones A, B, C, I, and H and provide 2X background.	1/14/97	Todd
3. Discuss organic background proposal and determine use.	1/14/97	Johnny Paul
4. Propose site changes to IM based on revised lead levels.	1/14/97	Brian
5. Prepare presentation on PT accomplishments for PT discussion	<del>1/14/97</del> 1/13/97	Diane/Todd (Ensafe)
6. Provide flowchart for supporting concurrent IM workplan reviews and resolution of comments	1/14/97	Kevin
7. Pull data together on arsenic levels and discuss with Ted Simon	1/14/97	Todd
9. Make presentation to RAB on CMS ranking weighing factors	1/14/97	Ann
10. Derive method to obtain input from RAB members on weighing factors and send to RAB members before January RAB meeting	1/14/97	Larry/Diane (Ensafe) Daryle
11. * Prepare Fact Sheet on RAB OSHA concerns	1/14/97	Daryle
12. * Discuss risk process with Ted Simon	TBD	Mark Bowers
13. * Provide Zone J RFI workplan approval	12/13/96	Johnny
14. * Issue final Zone J RFI workplan	12/20/96	Todd
15. * Review Building 68 for possible IM	1/14/97	Kevin
16. * Breakout steps for 30/60/90% reviews for PT	1/14/97	Bobby
17. * Schedule 1 1/2 - 2 day PT management planning tool training	TBD	Team POSTPONED TILL NEXT MEETING
18. * Review SWMU 11 for possible IM	1/14/97	Kevin

COMPLETE  
COMPLETE  
TONIGHT  
TONIGHT  
COMPLETE  
NEXT WEEK  
COMPLETE  
COMPLETE  
NEXT MEETING  
COMPLETE  
COMPLETE  
NEXT MEETING  
NEXT MEETING

\* Actions carried over from December Action List

**Naval Base Charleston Project Team Meeting  
December 10 and 11, 1996**

**Attendance Sheet**

<u>NAME</u>	<u>ORGANIZATION</u>	<u>PHONE</u>	<u>FAX</u>
Tony Hunt	SOUTHDIV	(803) 820-5525	(803) 820-5563
Brian Stockmaster	SOUTHDIV	(803) 820-7481	(803) 820-5563
Johnny Tapia	SCDHEC	(803) 896-4179	(803) 896-4002
Todd Haverkost	E/A&H	(803) 884-0029	(803) 856-0107
Kevin Tunstall	DETHASN	(803) 743-6777	(803) 743-9413
Bobby Dearhart	DETHASN	(803) 743-2821	(803) 743-0174
Doyle Brittain	USEPA	(404) 562-8549	(404) 562-8518
Ann Ragan	SCDHEC	(803) 734-4721	(803) 734-5407
Paul Bergstrand	SCDHEC	(803) 896-4016	(803) 896-4002
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Dave Backus	E/A&H	(901) 372-7962	(901) 372-2454
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Sandy Reagan	E/A&H		
Craig Smith	E/A&H		
Amy Stehlin	E/A&H		
Gabe Magwood	SOUTHDIV		
Larry Bowers	E/A&H		