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MINUTES FROM ORLANDO PARTNERING TEAM MEETING ON 18 NOVEMBER 1998 NTC  
ORLANDO FL  
11/18/1998  
NAVFAC SOUTHERN

ORLANDO PARTNERING TE  
MEETING MINUTES  
ORLANDO, FL  
18-19 November 1998

03.04.00.0028

00146

Team Leader- Rick Allen  
Recorder - Al Aikens

Gate Keeper/Timekeeper - Bob Cohose  
Facilitator- Steve Goldfarb

**ATTENDEES:**

OPT MEMBERS:

Al Aikens  
Rick Allen  
Bob Cohose  
David Grabka  
Wayne Hansel  
Steve McCoy  
Nancy Rodriguez  
Gary Whipple

SUPPORT MEMBERS:

Barbara Nwokike (SDIV)  
Nick Ugolini (SDIV)  
John Kaiser, Tier II  
Mark Salvetti, HLA

GUESTS:

Robin Manning, BEI  
Kim Nelson, HLA  
Gregg Mudd, HLA  
Bill Olsen, HLA  
Manual Alanso, HLA  
Gary Braganza, TTNUS

***Handouts Discussed At the Meeting***

1. Open OPT *ACTION ITEMS* (Updated November 1998)
2. UST/IR Update and Status (November 17 1998, 4 pages)
3. Letter dated November 5, 1998 from John Kaiser and Rick Allen/HLA to the Navy summarizing petroleum sites requiring soil and free-product removal
4. Main Base Golf Course success story
5. Draft fact sheets regarding IRAs at SA17, SA18, SA23 at McCoy Annex; and SA35, SA37, SA39/40, SA42, and the Main Base Golf Course at the Main Base
6. IRP non-UST/AST Investigation summary (November 17, 1998, 12 pages)
7. Slide handout for RI progress at OU2, including a gross  $\alpha/\beta$  resampling decision tree
8. Letter from Mark Salvetti to Navy regarding screening and selection of remedial technologies for OU4
9. Slide presentation handout for the selection of remedial alternatives for OU4
10. Slide presentation handout on progress of FS approach
11. Final draft report for SA55
12. Preliminary Developer Package - Status Summary, Environmental Restoration Sites
13. Flier on an EPA-sponsored conference for Advances in Innovative Ground-Water Remediation

November 18

***Check-In, Action Item Review***

Rick Allen opened the meeting at 8:00 with all OPT members and SUPPORT listed above in attendance. Ground rules were reviewed after sharing personal updates. The *ACTION ITEMS* were reviewed and cleared. Carryover action items from the November meeting are

1. *ACTION ITEM:* Gary W. to get letter out re tanks (Aug 10 HLA letter), locate wells (SA 39) **Status:** Letter anticipated to be sent within 1 week.
2. *ACTION ITEM:* HLA to generate potassium permanganate letter to FDEP - check with M. Salvetti - copy to OPT (before next meeting). **Status:** Letter pending. Discussions between HLA and FDEP ongoing.
3. *ACTION ITEM:* Gary W. to contact City to dispose of excavated contaminated soil at 2273. **Status:** Waiting for laboratory results.
4. *ACTION ITEM:* Bldg 2040. HLA to check on status of soil sampling at Bldg 2040 before next meeting. **Status:** Waiting for Laboratory results.

5. *ACTION ITEM:* HLA will collect 12 surface soil samples at SA 17 and submit for PAH analysis as per HLA work plan, then update text, Figure 2 and Table A-2 of workplan, as appropriate. **Status:** Samples collected 11/17/98. Waiting for laboratory results.
6. *ACTION ITEM:* HLA to take 3 confirmation soil samples in "dashed line" excavation area of SA 40 for lab analysis (PAHs and arsenic) to improve confidence in the excavation boundaries. **Status:** Sampled 11/17/98. Waiting for laboratory results.

#### **Completed Action Items:**

*ACTION ITEM:* FDEP to provide response to Bldg. 369 SAR requesting NFA. Dave G. said FDEP would issue letter next week (HLA received letter 10/26/98) Can proceed on Area 129. **Resolution:** Closed - Letter received 10/26/98 requesting more soil sampling.

*ACTION ITEM:* TTNUS risk assessors to confer with FDEP (UF) concerning input parameters for OU2 FRA Dave G. to get resolved with Ligia Mora-Applegate and Tim Barr (within 2 weeks) - **Resolution:** Closed - Dave to follow through with FDEP risk assessors regarding concurrence with calculation method.

*ACTION ITEM:* Steve M. to update Main Base golf course assessment success story (within 1 wk before next meeting). **Resolution:** Completed and distributed to the OPT. Document was reviewed during the meeting.

*ACTION ITEM:* HLA to prepare cost estimate to evaluate NA (will present at OPT meeting next month). **Resolution:** Closed - Analysis performed concluding that the time required for NA is too long.

*ACTION ITEM:* Wayne H. to discuss with Nick the rationale for recommending evaluation of NA and monitoring only at 7174. The RAP will have to be reissued or an addendum will have issued if OPT delays implementation of RAP. **Resolution:** RAP to be reissued to include biosparge as RA using micro-wells.

*ACTION ITEM:* Dave G. to go back to petroleum group to determine whether NA is a viable remediation alternative given their experience. **Resolution:** Closed.

*ACTION ITEM:* OPT comments back to Bob re draft letter to FDEP by 10/26/98 (OU2 landfill cap). **Status:** Closed - Letter sent 10/30/98 by Bechtel to FDEP, **Open Action Item:** FDEP approval letter in process regarding the OU2 landfill cap (see AI No. 13 below).

*ACTION ITEM:* Dave G. to determine whether OLD-03-04 needs to be sampled in future sampling rounds (PCE concentrations were below MCLs in two successive rounds). **Resolution:** Closed - Two rounds below MCL therefore no need to resample this well. Discuss the need to identify and sample for a down gradient.

*ACTION ITEM:* HLA to finalize OU 3 response to comments as soon as possible and distribute to OPT. **Resolution:** Closed - Response to comments sent 11/12/98.

*ACTION ITEM:* Dave G. to discuss the arsenic issue with FDEP to resolve whether arsenic will require remediation at SA 35. **Resolution:** Closed - Arsenic will need to be addressed.

*ACTION ITEM:* Gary W. to check to whether a cart hose down area existed at SA 37. **Resolution:** Closed - No evidence that the area was used as a wash-down area.

*ACTION ITEM:* HLA to investigate the stick-up behind Bldg 2079 at SA 35. *Note: Stick-up is a 2-inch temporary well installed to investigate an oil-water separator. HLA will abandon prior to DET excavation.* **Resolution:** Closed - Stick-up is a 2-in temporary well. HLA will abandon the temporary well.

*ACTION ITEM:* DET to excavate up to the trailers at SA 39. HLA to identify sample locations east of Bldg 137 to determine where samples were located and recommend the area to be excavated to remove the arsenic exceedance. **Resolution:** Closed - Excavate unpaved affected areas and not paved areas.

*ACTION ITEM:* Gary to check whether 20 x 20-ft pad at SA 39 needs to be removed. **Resolution:** Closed - Can be removed if necessary. Confirmation sampling results will be used to decide if pad is to be removed.

*ACTION ITEM:* TTNUS will submit a decision tree to OPT for procedure to use to resolve RADs issue for OU 2 groundwater. **Resolution:** Closed - Decision tree presented and discussed. Follow-on sampling will probably involve choosing 4 wells to resample and submit for gross  $\alpha/\beta$ , filtered/unfiltered, to include one upgradient well and three downgradient wells.

*ACTION ITEM:* HLA needs to assess SA 39 (and Bldg 2273) and document wells to be reinstalled in a letter to Navy. **Resolution:** Completed.

### **UST, IR, Transfer, and Tier II Updates**

- 1) **UST:** See handout, *UST Update and Status, November 1998*, and HLA letter dated 11/5/98 for details. Nick - DET to mobilize 2/1-15/99 for soil remediations. Barbara indicated her contact provided a June mobilization time frame. Some confusion on mobilization date needs to be resolved to coordinate with activities at McCoy Annex LF.
  1. *ACTION ITEM:* HLA inform Nick on soil volume for 2426 to add to DET scope of work.
  2. *ACTION ITEM:* Barbara/Nick identify DET mobilization timing to coordinate remedial activities at soil removal sites and McCoy Annex LF.
- 2) **IR:** See handout, *IR Update and Status, November 1998* for details.
- 3) **Transfer:** Continued negotiations on MOA. Ongoing activities regarding pending law suit.
- 4) **Tier II:** LUC MOA in review. Defining self-directed teams was discussed. Tier I attendance with briefing requested at Tier II December 3, 1998 meeting in Orlando.

### **7174 RAP**

Time frame for NA too long - 50 years. RA to use biosparging. SOUTHDIV will contact NAS Key West Environmental Department to request availability and shipment of compressor to SWMU 9 for biosparging at NTC Orlando.

3. *ACTION ITEM:* Nick to prepare SOW for biosparging at 7174 and submit to the RAC to prepare a proposal.
4. *ACTION ITEM:* NTC Public Works to look for the availability of a suitable compressor at NTC.

### **Training**

*Erik's game* team building exercise to direct team members to achieve a common goal.

### **SA3 Monitoring Results**

Issue: The need for additional sampling of agreed upon wells and to include sampling a down gradient well. Action Item 11 is from October 1998 meeting.

Discussion and decision: Rick reviewed historic activities, sampling results and decisions.

- OLD-03-04 below MCL for PCE for 2 consecutive quarterly samplings - discontinue sampling this well.
- OLD-03-01 is slightly above the MCL for PCE - continue sampling this well.

Rick determined that OLD-03-02 and OLD-03-03 have not been abandoned and can be considered as potential candidates for down gradient well.

1. *ACTION ITEM:* Dave to discuss the need to include a down gradient monitoring well at SA3 with FDEP management.

### **OU 2**

**OU 2 RI - Phase II Sampling Results (refer to handout provided) - Gary Braganza, TTNUS**

Surface water - Metals from 11 samples above criteria, of note Pb and Hg above criteria at SW-14 and SW-21. PAHs encountered in the dup. at one sample slightly above criteria. Gross  $\alpha$  in one sample, SW-21.

Sediment - pesticides (4,4-DDD and 4,4-DDE) found in SE-14 and SE-17 above criteria. Gross  $\alpha$  found in one sample.

Current field work - Gross  $\alpha/\beta$  sampling protocol discussed.

## OU 2 FRA

FOSL is in review for comment, waiting to resolve this issue - time frame for resolution is short. Bottomline issues are

- 1) EPA BAP equivalent risk level calculation method - how to manage nondetected PAHs. This Ted Simon/EPA has requested to use 0.5 times the BAP detection limit for non-detections of BAP. Other PAHs with NDs not included in risk calculation. FDEP risk assessors are unfamiliar with the calculation method
- 2) 15-year employment duration for grounds keeper used. Standard duration is 25 years.

Use of the EPA calculation method with the 25-year employment duration will conclude in acceptable results to conclude the FOSL.

1. *ACTION ITEM:* Dave to have FDEP risk assessors to conclude the calculation method presented in the OU2 FRA. Attempt to resolve early next week.

## OU 2 IRA

Discussed the limits of the NW portion of the landfill between the presently identified area and the pond - if not wetlands should we harvest trees and cap.

Decision: If the affected property is not wetlands include the land in the IRA. Maintain agreed upon setback distances of activities from wetlands.

SFWMD - No resolution was achieved on their concurrence regarding the time-critical removal action. Continue to coordinate, but do not stop progress on execution of the IRA. Language in the current version of the draft MOA includes the transfer of soil from the main base to McCoy Annex.

2. *ACTION ITEM:* Dave G. - FDEP approval letter regarding the OU2 landfill cap.

## **RAB Presentation Preparation (Fact Sheets for IRAs)**

Draft fact sheets for SA35, SA37, SA39/40, SA42, and the main base golf course at the main base; for SA17, SA18, and SA23 at McCoy Annex; and the RAB presentation summary were distributed. The OPT reviewed and commented on the fact sheets in preparation for the RAB meeting.

Gary provided a dry run of the IRA presentation.

November 19

## **Study Area Review**

### **Study Area 17:**

Draft report distributed after the October meeting. Preliminary comments from EPA were presented and discussed. EPA will require quarterly sampling to demonstrate NA.

3. *ACTION ITEM:* Nancy to forward Web address to the EPA NA site to Gregg Mudd/HLA.

### **Fac 2273/Study Area 39 Wells:**

Rick reported on the disposition of the wells destroyed as a result of the City's construction activities. Wells were identified for replacement. Will look for the old wells and attempt to abandon. The old wells at 2273 were located at locations currently desirable for monitoring, confirm with Dave/FDEP. SA39 replacement wells locations are under evaluation.

4. *ACTION ITEM:* HLA to recommend locations for replacement well and supplemental wells at Fac 2273 and SA39.
5. *ACTION ITEM:* Dave to concur in writing (e-mail sufficient) with well locations at Fac 2273 and SA39 prior to construction. (2 weeks)

6. *ACTION ITEM:* HLA to provide an order of magnitude cost estimate for replacement of the affected wells at Fac 2273 and SA39.

**Study Area 54:**

Report to be issued next week. Summary of conclusions:

Interviews and search of records have indicated no historic deleterious activities. Anecdotal information indicates a previous forest fire occurred in the early 1970's this and controlled burns are postulated to have deposited PAHs in the soil. Fires have been linked to elevated PAH levels in soil at other locations. The report was written to recommend NFA.

**Study Area 55:**

Rick distributed the final draft report. BAP identified in surface soil below the industrial criterion. Report recommends landuse restrictions for non-residential then NFA.

**Study Area 2/36 Drilling:**

SA: Additional wells installed and sampled. Groundwater gradients to be reevaluated.

SA36: Additional wells installed and sampled. Gradient in the shallow groundwater resulting from 3 rounds is about 135 degrees, counter-clockwise from original assessment. Pinching-out of a cemented sand layer to the NW and leaking faucet are considered possible causes for the gradient difference. Gradient in the deeper groundwater is toward Lake Susannah (consistent with original assessment).

**OU 4**

**OU 4 RI:**

7. *ACTION ITEM:* Team to review OU 4 RI Report

**OU 4 IRA: Robin Manning & Bob Cohose**

Update on O&M on the wells cleaning and redevelopment and in-hole equipment. MSDS for additive to inhibit biogrowth delivered to Wayne and Gary. Operate the wells for 12-24 hours then test water for bacteria concentrations for proper dosing of inhibitor. Startup operations will be performed to evaluate the range of conditions anticipated at the site to achieve optimal performance. This may require several weeks of evaluation.

8. *ACTION ITEM:* Bob work with Navy and HLA to add microbiological analysis of the groundwater to better characterize conditions and supplementally treat the water in the wells and schedule for the OU4 IRA.
9. *ACTION ITEM:* Bob work with Navy and HLA to add more geochemical analyses to the sampling plan to evaluate affect of biological inhibitor on groundwater geochemistry and schedule for the OU4 IRA.

**OU 4 FS Technologies: Mark Salvetti**

Letter from Mark Salvetti to the Navy dated 11/16/98 distributed to the OPT summarizing technology screening and Mark's presentation.

Assumption: Surface soil removal to be performed by DET; therefore, surface soil remediation was not considered in FS

Technologies eliminated and technologies retained were discussed and are presented in detail in the letter. Mark presented 5 VOC and 4 inorganics groupings of remedial technologies to be evaluated in detail in the FS. The IRA involving recirculation wells will be included in the evaluation of the remedial alternatives.

10. *ACTION ITEM:* Mark to investigate how to electronically distribute OU4 in-well air stripping presentation for the Amherst conference.

#### OU 4 FS KMnO<sub>4</sub> Treatability Update: Mark Salvetti

Mark presented the laboratory results testing of the onsite groundwater. The testing was conducted using 5 different dose concentrations of KMnO<sub>4</sub>. Presented temporal changes of PCE after KMnO<sub>4</sub> was added were presented. Rapid degradation of PCE was demonstrated by the lab results. Looking at the need to air strip the augmented water prior to reinjection.

#### **Main Base Golf Course Success Story Review**

The document was reviewed and comments were given to Steve McCoy to finalize it.

#### **OU 3**

OU 3 FS: Kim Nelson, HLA

Presentation handout was distributed. The key decision that needs to be made is whether the appropriate land use for the site is residential or recreational.

Soil disposal costs driven by characterization of the removed as non-hazardous or hazardous. Soil removed during the IRA was disposed as hazardous waste by listing.

**Decision:** Completion of the RI has been on hold to determine the presence of subsurface soil to complete the characterization of the site. The RI is to be completed under the assumption that subsurface soil is not present because the depth to groundwater is shallow. However, during remediation if COCs are encountered above leachability criteria in soil below the 2-foot excavation depth, the excavation will be continued until acceptable concentrations are encountered or the water table is encountered. Groundwater remediation will accommodate COCs at unacceptable concentrations in the aquifer.

#### **Developer Package**

Steve distributed a preliminary copy of *Developer Transition Manual, Main Base Property*. Discussions ensued on content and what information to convey: wells to protect areas of excavation, sites not transferred.

#### **Multiple Site and Miscellaneous Action Items**

11. *ACTION ITEM:* Team to review OU 4 RI Report
12. *ACTION ITEM:* Team to review SA 17 Report
13. *ACTION ITEM:* Team to review SA 54 Report
14. *ACTION ITEM:* Team to review SA 55 Report
15. *ACTION ITEM:* Barbara to check on changing reservations and arrange for meeting space.
16. *ACTION ITEM:* Dave determine if able to travel to Oak Ridge for the April 1999 meeting.

#### **Critique, Agenda, Close-Out**

##### POSITIVES (+)

- Narrowing the subject - Bob
- Support staff coming and going as needed
- Word-smithing kept to a minimum
- Steve wore jeans with a new shirt.
- Gary - Good RAB presentation
- Mark - Informative KMnO<sub>4</sub> presentation
- The agenda shuffle
- Training
- Team cooperation
- Extra "smart pills"

##### DELTAS (δ)

- Too much fattening food
- Temperature control
- Returning from breaks on time
- Update team on the need to leave early or step out of the meeting

## ***Future Meeting Schedule***

December 15 and 16, 1998 - Atlanta

January 20 and 21, 1999 - Orlando

February 17 and 18, 1999 - Charleston

March 17 and 18, 1999 - Orlando

April 21 and 22, 1999 - Oak Ridge w/ Tallahassee backup

May 19 and 20, 1999 - Orlando

**OPT AGENDA**  
**December 15 and 16, 1998**  
**Atlanta, GA**

**TEAM ASSIGNMENTS**

Team Leader: AI Aikens  
 Recorder: Bob Cohose  
 Gate/Timekeeper: Dave Grabka  
 Facilitator: Steve Goldfarb  
 Tier II Link: John Kaiser

**SUPPORT**

Barbara Nwokike (SDIV)  
 Nick Ugolini (SDIV)

**EXPECTED GUESTS**

<u>Time</u>	<u>Subject</u>	<u>Objective</u>	<u>Lead</u>
<b>December 15</b>			
0800	Advances in Innovative Ground-Water Remediation	Training	All
<b>December 16</b>			
0800	Check-in, AI Review	Administration	AA
0900	UST/IR/Transfer Updates	Information transfer	AA
0930	Tier II Updates	Information transfer	JK
0945	<b>BREAK</b>		
1000	OU2 FRA and FOSL	Resolution/Decision	SM/DG/WH
1030	OU4 RI Report/IRA	Resolution/Decision/ Information Transfer	RA/BC
1130	<b>LUNCH</b>		
1300	SA55, SA54 (?), SA17 Comment discussion	Resolution/Decision	RA
1400	SA2, SA36 Update	Information Transfer	RA
1430	<b>BREAK</b>		
1445	Fac 2273 & SA39 Update	Information Transfer	RA
1545	Developer Package	Resolution/Decision	SM
1615	Close-out, Agenda, Critique	Administrative	AA
1630	Adjourn		

## ACTION ITEM SUMMARY

### November 98 Meeting

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