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**ENVIRONMENTAL AGENDA**  
**BUILDING 1754 - FMD CONFERENCE ROOM**  
**NAS PENSACOLA, FLORIDA**

**OCTOBER 13,1993**

- 0800 - 1000 Site 36, **IWTP** Sewer Line - O&MN  
Approach to Investigation / IR  
Approach to Investigation  
(Including Site **30** and **38 Mods**)
- 1000 - 1015 **Break**
- 1015 - 1200 Continue **IWTP** Discussion
- 1200 - 1300 Lunch
- 1300 - 1430 Continue **IWTP** Discussion
- 1430 - 1445 **Break**
- 1445 - 1700 Discuss Review Comments on the Comprehensive  
**SAP** and 1994 SMP

**OCTOBER 14, 1993**

- 0800 - 1000 Discuss Operable Unit 10 Comments (**RI & FS**)
- 1000 - 1015 **Break**
- 1015 - 1200 Continue OU 10 Comments
- 1200 - 1300 Lunch
- 1300 - 1430 Continue OU 10 Comments
- 1430 - 1445 **Break**
- 1445 - 1630 Discuss Wetlands Issues (**Ecological** Trigger Values)

**Project Managers/Resource ~~Trustees~~ Meeting  
 NAS Pensacola  
 October 13-14, 1993**

**Attendees:**

Allison Dennen	E/A&H	901-372-7962
Henry H. Beiro	E/A&H	901-372-7962
Jacqueline Owens	E/A&H	901-372-7962
Linda Martin	<b>SOUTHDIVNA /FAC</b>	803-743-0574
Allison Drew	USEPA	404-347-3016
John Mitchell	<b>FDEP/OS/OIP</b>	904-488-0784
David Clowes	FDEP-Base RPM	904-488-0190
Jorge R. Caspary	FDEP/Tallahassee	904-488-0190
Fred Sloan	EPA/ESP	706-546-3317
T. B. Willis	PWC Utilities	904-452-2321
LCDR Eric Johnson	NADEP Pensacola	904-452-2394
F. R. Fritz	NASP <b>FMD</b>	904-452-4515 ext. 348
Michele Harrison	NASP PAO	904-452-2311
Charles Whittington	PWC Utilities	905-452-2322
James A. Sparks	PWC Attorney	904-452-3502
Eric N. Nuzie	<b>FDEP</b>	904-488-0190
James Malone	SOUTHDIVNAVFAC	803-743-0581
David Criswell	SOUTHDIVNAVFAC	803-743-0612
James Crane	<b>FDEP</b>	904-488-0190
Ron Joyner	NAS Facilities Mgmt.	904-452-4515
<b>Brian</b> Caldwell	E/A&H	904-479-4595
Paul V. Stoddard	E/A&H	901-372-7962
David Morres	PWC Env. Office	904-452-4515
LCDR Joe Monachno	NASP <b>FMO</b>	908-452-4515
<b>Bill</b> Taylor	NASP Env. Office	904-452-4417
Gary Sweppenhiser	NAS Environmental	904-452-4417
<b>Bill Hill</b>	SOUTHNAVFAC - RPM	803-743-0324
Lt. Athena Cozaleos	Public Works Center	904-452-8587
Frank <b>Stuart</b>	NADEP	904-452-2320
David Trimm	E/A&H	904-479-4595
<b>Brian</b> Mulhearn	E/A&H	919-851-1886

**ENVIRONMENTAL MEETING NOTES**  
**NAS PENSACOLA**  
**OCTOBER 13 AND 14, 1993**

**OCTOBER 13, 1993**

Sites 30 and 38

- **Look** at historical information including connections to the Industrial Waste Line and maintenance to waste leaks. ~~On~~ known leaks, **will compare to work** already completed.
- **If** there ~~are~~ major data gaps, the Navy will submit a proposal for additional investigation to determine how to **fill** gaps.
- **If** no gaps, Navy will write draft RI **report**
- Tentatively, Sites **11, 25** and **27** **will be** incorporated into one **OU with** Site **30**.
- **Modify** Site 30 and 38 **SAP** Addendums to explain biasing already incorporated and include this agreement in **SAP** text.

Site 36

- Available to include any previous investigation requests
- Maintenance **records** to plan our investigative approach

**ENVIRONMENTAL MEETING NOTES**  
**NAS PENSACOLA**  
**OCTOBER 13 AND 14, 1993**

OCTOBER 14, 1993

General Comments

- Groundwater sampling procedures will **be** further clarified in the **CSAP**. Techniques for monitoring well purging and sampling will **be** selected on a **case by case** basis based on turbidity.
- FDEP and USEPA will present the **Navy** with guidance on **selecting** sufficient background samples. Discussion will **also** continue on background as a base-wide or site issue.
- Approach for **calculating 20%** levels from the Long and Morgan report is acceptable. The Navy is to submit the approach formally.
- Aquifer testing will be completed at OU 10 during RD.
- The potential for false positives will **be** evaluated as the data becomes available.

OU 10 specific Comments

- Aquifer testing will **be** completed at OU 10 during RD.
- The wetlands located near **OU 10** will be studied **first** during the Site 41 investigation. **This** investigation is scheduled to **begin** in **January 1994**.
- **Fill areas** wetlands will **be** addressed for human health **risk** in **OU 10 RI** report.
- Terrestrial ecological assessment will **also be** addressed in **OU 10 RI report**.
- Appendix **P** will **be modified**. A legend will **be** presented explaining sample designations.
- A historical **summary** (and **data** interpretation) will **be** added to the **OU 10 RI report** including the effectiveness of the recovery system.

OCTOBER 13, 1993

**Lt. Cozaleos, PWC:**

- Presentation of Industrial Wastewater Sewer **Line**.
- Most of the line is along **Pensacola Bay**; **mainly Force Main**.
- **98%** of the sewer line below the groundwater.
- **Only** Site 30 **area** above groundwater.

**Frank Stewart, NADEP.**

- **NADEP** is major user of system
- Due to BRAC decision to close, sewer line will close by **1995**
- Major sources--Buildings **648, 649** Complex (Site **30**) and **Building 3557**
- Site **38** (electroplating and paint stripping waste)
- Building **604** produces electroplating waste which are drummed and **not** discharged to the sewer line.
- Photographic and steam baths **are** the only activities **discharging** to the sewer line.
- Building **7L** (not currently used--abandoned **5 years** ago) is **also a** source for the sewer line.
- In **1972** it was a paint stripping facility; **1978-1979** it stored drummed hazardous waste.

**Eric Nuzie, FDEP:**

- **Why** can't Bldg. **648** do pretreatment?

**Linda Martin, SOUTHNAVFACENGCOM:**

- **P513** will go **back** in if **BRAC** does not **go**, but on a smaller scale.

**Eric Nuzie, FDEP:**

- Change processes to **reduce** discharge
- Pollution prevention efforts.
- Contingency plans for both.

**Frank Stewart, NADEP:**

- The floor drains in Building **649** are hooked up **to** **IWTP** sewer line.

**Linda Martin, SOUTHNAVFACENGCOM:**

- Other questions:
- **Soil** Sampling/Groundwater sampling then shut system **down** before ROD issuance.
- Integrity or entire line leaking?
- Test line along ditch before BRAC activities
- Integrity checks if available, but if not, integrity would be checked. Not part of Installation Restoration (**IR**).

**Fred Sloan, USEPA:**

- Who **will** be responsible?

**Linda Martin, SOUTHNAVFACENGCOM:**

- IR will clean up, if source connections **are** not **part** of program.

**David Criswell, SOUTHNAVFACENGCOM:**

- Integrity tests would not show leaks.

**Jorge Casperly, FDEP:**

- **FDEP** has problem with the approach. What about hot spot **areas**?

**Lt. Cozaleos, PWC:**

- In areas below groundwater, infiltration not exfiltration is the problem unless there is a break.

**Frank Stewart, NADEP**

- Sinkholes would happen where breaks **occur**.

**Fred Sloan, USEPA:**

- What if a manhole clogged?

**Frank Stewart, NADEP**

- **Lift** station 2 overflowed **causing** a fish kill in Bayou **Grande**. **Building 3557** has lots if infiltration.

**David Clewes, FDEP**

- Smoke test for exfiltration **areas**?

**Linda Martin, SOUTHNAVFACENGCOM:**

- No, not done.

**David Criswell, SOUTHNAVFACENGCOM:**

- Smoke tests **will only** check illegal connections.

**Jorge Caspary, FDEP:**

- Hot spots or alternatives?

**Linda Martin, SOUTHNAVFACENGCOM**

- **Many** of Ecology and Environment, Inc. (**E&E**) hits are **from** underground **storage** tanks (**USTs**)?

**Jorge Caspary, FDEP:**

- Navy **proceeding** with rejected plan.

**Linda Martin, SOUTHNAVFACENGCOM:**

- E/A&H will proceed with the investigation at Sites 30/38?

**Eric Nuzie, FDEP:**

- Why won't you test?

**Lt. Cozaleos, PWC:**

- Camera test was done in **1987**. The majority of the line showed decent integrity. One **area** near Site 38 had bad integrity, but the problem was **infiltration**.

**Brian Caldwell, E/A&H:**

- The force **main** was not checked. Would know if force **main** was leaking **because** of loss of pressure.

**Lt. Cozaleos, PWC:**

- Site 30 **area** not accessible in the wetlands. Site 38 **area** was checked.

**Fred Sloan, USEPA:**

- Tested the **main** line and not the connectors? Site 30 is the problem child.

**Linda Martin, SOUTHNAVFACENGCOM:**

- Not cost effective

**Fred Sloan, USEPA:**

- Where is the source?

**Allison Drew, USEPA:**

- You are using a random approach, not a condition of line approach.

**Lt. Cozaleos, PWC:**

- There have been no integrity problems.

**Fred Sloan, USEPA:**

- Infiltrations **areas** have been noted. In **area** of Site 30 could have **exfiltration**.

**David Criswell, SOUTHNAVFACENGCOM**

- The approach is biased to **manholes** where leakage would occur.

**Linda Martin, SOUTHNAVFACENGCOM.**

- Biasing of sample locations is conducted.

**Henry Beilio, E/A&H:**

- Locations of **soil** borings were skewed. In addition, five **cores** were installed near the floor drains inside the Building 648 complex.

**Lt. Cozaleos, PWC:**

- The wastes used to **discharge** to the wetland **on** the backside of the Building **648** complex. Are there **areas** with **data** gaps?

**Jorge Caspary, FDEP:**

- Do tests to direct **the** investigation

**Fred Sloan, USEPA**

- What about the **connections**?

**Paul Stoddard, E/A&H:**

- The RI is currently underway.

**Bill Hill, SOUTHNAVFACENGCOM:**

- Would flushing of sewer line **be** integrity check?

**Frank Stewart, NADEP:**

- **\$400,000** to do camera survey

**Fred Sloan, USEPA:**

- **How** was tracing done?

**Frank Stewart, NADEP**

- A variety of techniques were used.

**Lt. Cozaleos, PWC:**

- All buildings were checked. **NADEP** is **the** major user.

**David Criswell, SOUTHNAVFACENGCOM:**

- We *can* bias locations.

**Fred Sloan, USEPA**

- We **are** concerned about Wetland **5**.

**Linda Martin, SOUTHNAVFACENGCOM:**

- **What** about past leaks?

**Henry Beiro, E/A&H:**

- The sample density of **soil** borings is high **in** that **area**. A smoke test would only show connectivity.

**Fred Sloan, USEPA:**

- The source **area** is an **area** requiring **remediation**.

Jorge Caspary, **FDEP**:

- What about along Fisher Avenue? In 1977 or **1978** the line **was** replaced.

Linda Martin, SOUTENAVFACENGCOM:

- The Navy proposes Sites **25, 27** and 30 **are** contaminated. Henry **Beiro** will show sampling density. Clean-up will **be** based on the baseline **risk** assessment.

Henry **Beiro**, E/A&H:

- Sampling is **focused** to sewer line connections. **Buildings** 3220 and **3450** should show connectivity.

Fred Sloan, USEPA:

- Are they above the water table?

Henry **Beiro**, E/A&H:

- o Yes

Linda Martin, SOUTENAVFACENGCOM:

- There is enough information to show the entire **area** is contaminated.

Fred Sloan, USEPA:

- o Is it worst case data?

Linda Martin, SOUTENAVFACENGCOM:

- o **will** never be able to check all

Fred Sloan, USEPA:

- **will** you be able to fill data gaps?

Linda Martin, SOUTENAVFACENGCOM:

- The integrity changes day to day.

Fred Sloan, USEPA:

- A civil engineering firm maybe could

Linda Martin, SOUTENAVFACENGCOM:

- o I don't think so.

Henry **Beiro**, E/A&H:

- There is sufficient sample density to **fill** gaps.

Lt. **Cozaleos**, PWC:

- What would **you** suggest (talking to Fred)

**Fred Sloan, USEPA:**

- Telescoping. I don't know what else

**Henry Beiro, E/A&H:**

- One of our engineers in house suggested **sealing** off manholes with bladder pumps and filling with water. All it shows is **gross** integrity, not a **point source check**.

**Fred Sloan, USEPA:**

- Could focus on those **areas**.

**Linda Martin, SOUTHNAVFACENGCOM:**

- There is sufficient **sampling density**

**Lt. Cozaleos, PWC:**

- What is sewer flow?

**Frank Stewart, NADEP**

- **Decreased** from 4 million gallons/month to 55,000 gallons/month

**Henry Beiro, E/A&H:**

- The present sampling density provides good coverage of connectivity. If anomalous **areas are** discovered, it will **be** investigated.

**Lt. Cozaleos, PWC:**

- What **are** we looking for?

**Fred Sloan, USEPA:**

- Possible leak **since 1972**, to **know** the leak

**Linda Martin, SOUTHNAVFACENGCOM:**

- What difference does it make if the ground is the **source** or sewer line is the **source**?

**Henry Beiro, E/A&H:**

- We **are** biasing the samples with a grid search **method**.

**Linda Martin, SOUTHNAVFACENGCOM:**

- Information is already there. Other **areas** we don't have **data**. **Only** Sites 30 and 38 have **sampling plans**.

**Lt. Cozaleos, PWC:**

- What kind of remediation would **be** used?

**Paul Stoddard, E/A&H:**

- We don't have the **data** yet. VOCs are there. **The** density is **great** enough to treat overall **areas** with extraction system. **Will impact** the **SMP**.

**Allison Drew, USEPA**

- If the potential source is the sewer, now is the time for integrity checks.

**Fred Sloan, USEPA:**

- An extraction system is speculative for remediation.

**Frank Stewart, NADEP:**

- The 70 to 80 years of industrial sewer line is less of a source than other activities

**Jorge Caspary, FDEP:**

- There is **data** from Ecology & Environment **data from 1991**, and there are **areas** with no hits. There is **also** new **data** from **ABB**. **Florida asks the USEPA** regarding the **areas** of no hits, which areas would you like **to** test? **Florida** suggests looking at the maintenance **records**, etc. **to** bias samples.

**Fred Sloan, USEPA**

- The portion of exfiltration would be small. Major breaks would...

**Linda Martin, SOUTHNAVFACENGCOM:**

- If there is a major break, we would know.

**David Criswell, SOUTHNAVFACENGCOM:**

- The wells needed anyway?

**Henry Beiro, E/A&H:**

- Yes, the sewer is part of package

**Allison Drew, USEPA:**

- What if a hit occurred without a nearby boring?

**Henry Beiro, E/A&H:**

- If above ARAR, we would further investigate.

**Paul Stoddard, E/A&H:**

- It would **be** investigated **on a risk** management **basis**.

**James Crane, FDEP:**

- Investigate **areas** where **maintenance** occurred.

**Paul Stoddard, E/A&H:**

- We will look at **all** information. If need be, we **will** look at sewer line to fill gaps.

**Lt. Cozaleos, PWC:**

- Previous communication problems have been fixed.

**Jorge Caspary, FDEP:**

- If the plan is to direct sampling to where maintenance **has** occurred, the plan is acceptable to the state. It *can* be improved upon by looking a failure areas

**James Malone, SOUTHNAVFACENGCOM:**

- The Navy will accept the **risk** for remediation.

**Lt Cozaleos, PWC:**

- We will not pressure test the line. It would be detrimental. Photo only

**Allison Drew, USEPA:**

- Instead of waiting for the RI, pull together all available information within 30 days.

**Paul Stoddard, E/A&H:**

- We will **look** at **analytical**

**Lt. Cozaleos, PWC:**

- **will** give a list of maintenance.

**Linda Martin, SOUTHNAVFACENGCOM:**

- We will make sure **all areas** are covered. If hot spot is discovered along the sewer line, will **focus** the investigation.

**Henry Beiro, E/A&H:**

- The remediation technique will involve delineation of **nature** and extent of contamination.

**James Malone, SOUTHNAVFACENGCOM:**

- The sewer line is not the problem.

**Henry Beiro, E/A&H:**

- **Fred's** objective is to **look** for sources.

**Fred Sloan, USEPA:**

- The sources we don't **know** about. Looking for anything to direct **sampling**.

**Linda Martin, SOUTHNAVFACENGCOM:**

- If contaminants **are** the same, why **track**?

**Henry Beiro, E/A&H:**

- We can't differentiate **where contaminants are** from.

**Linda Martin, SOUTHNAWACENGCOM:**

- What came out of the plating shop is what **came** out of **the sewer**

**Jorge Caspary, FDEP**

- The density of sampling will take *care* of **plume** delineation. If **remediation is required**, it will **be** addressed. There is **no need** to test **the sewer line**.

**Linda Martin, SOUTHNAWACENGCOM:**

- We will use **all** information from PWC and **NADEP** to focus **sampling**

**Allison Drew, USEPA**

- After review of RI **report**, is Navy open to **listening** to testing?

**Linda Martin, SOUTBNAVFACENGCOM:**

- The reasoning, yes.

**Fred Sloan, USEPA:**

- Clean-up **will** succeed?

**Linda Martin, SOUTBNAVFACENGCOM:**

- It will succeed with the **data**

**Paul Stoddard, E/A&H:**

- **will** USEPA accept?

**Jorge Caspary, FDEP**

- Do not extend **S M P**

**Linda Martin, SOUTBNAVFACENGCOM**

- Look at schedules for **Cat 2** and **3** and submit Sites **11, 25, 27** and **30** at one time

**Allison Drew, USEPA:**

- Just move Sites **25** and **27** to **11** and **30**

**Linda Martin, SOUTHNAWACENGCOM**

- Summary of morning

Sites **30** and **38**

- **The Navy** will look at **historical** information **in connection** to **sewer line** and maintenance to **sewer leaks**. **On** known leaks, **will compare** to work already completed.

- If major gaps exist, Navy will submit a proposal for **additional** investigation to determine how to fill-gaps.
- If no gaps, **Navy** will write report (**Draft RJ**).
- Tentatively, Sites 11, **25** & 27 **incorporated** into 1 -- Site **30**.

Site 36

- **Use** all historical information (**E&E, G&M**) before **SAPs** submitted
- Maintenance **record** to plan our investigative **approach**

**CSAP**

Linda Martin, SOUTHNAVFACENGCOM:

- 1.5 years ago, E&E was contractor.
- E/A&H would make changes to the SAPs to concur with SOP/QAM.
- Referenced back to OU 10 **SAP**.
- To reduce **confusion** to the public, the **CSAP** was created.

John Mitchell, FDEP:

- The CSAP is **okay** but we need to discuss trigger levels.

Fred Sloan, USEPA:

- Comment 3. Problems with **Dexsil** screening **because** of **false** positives.

**Henry Beiro, E/A&H:**

- Only use **Dexsil** for to focus sampling. **Samples will still be collected** for TAL/TCL analysis.

Fred Sloan, USEPA:

- So long as **Dexsil** only used for screening, it is fine.

Allison Drew, USEPA:

- Problem with Comment **5** regarding homogenizing samples.

**Allison Dennen, E/A&H:**

- **Use** stainless steel sleeves when loss of volatiles is a **concern**. I believe it is in the **SOW** for the laboratory to homogenize **the** samples.

Henry Beiro, E/A&H:

- Confidence in the laboratory to **do the work**. **Will add** to CSAP that samples **will be** homogenized in the laboratory.

Allison Drew, USEPA:

- Comment **7**. Permanent versus temporary monitoring wells.

**Henry Beiro, E/A&H:**

- Florida requires same **construction and** permits for either.

**Jorge Caspary, FDEP:**

- Yes

**Linda Martin, SOUTHNAVFACENGCOM:**

- The Navy is the lead agency. **Phase II** wells will be permanent.

**Allison Drew, USEPA:**

- ~~Use~~ temporary wells and screening data

**Fred Sloan, USEPA:**

- For plum delineation, **use** the temporary wells **and** the field gas chromatograph.

**Henry Beiro, E/A&H:**

- Upgradient and downgradient wells will delineate **extent**

**Fred Sloan, USEPA**

- **You can** guarantee it will delineate extent?

**Paul Stoddard, E/A&H:**

- No guarantees. Even if negative on the field **GC**

**Allison Drew, USEPA:**

- **You are sure** you *can* delineate extent?

**Henry Beiro, E/A&H:**

- **With** current configuration yes in conjunction with Sites **25, 27** and **11**

**Fred Sloan, USEPA:**

- Comment **14** Doesn't think split **barrel** with **Ponar** will **work**

**Henry Beiro, E/A&H:**

- Not together, separate **methods** of sample collection.

**Allison Drew, USEPA:**

- Comment 19A **USEPA will** hold final approval of **SAP** until receipt of tech memo.
- **Final approval** of **work** plans will **also be** contingent **on tech** memos.
- Delete bailer **as** a purging technique

**Paul Stoddard, E/A&H:**

- When did purging with a bailer become not acceptable?

Allison Drew, USEPA:

- Bailing increases the turbidity,.

Bill Hill, SOUTHNAVFACENGCOM:

- We will not delete unless SOP/QAM changes

Paul Stoddard, E/A&H:

- We **will** not preclude use of accepted **methods**.

Eric Nuzie, FDEP:

- Florida takes issue with no more **than 5** well volumes for purging.

Paul Stoddard, E/A&H:

- We will continue until **stabilized**

*SMP*

Linda Martin, SOUTHNAVFACENGCOM.

- If in OU, it will be included in *SMP* . If not in **OU** ,it will not be in *SMP* . The Navy agrees to upgrade **SITE 35** because of **data**

Allison Drew, USEPA:

- It is our understanding **before** the RI **report** is written decision **will be made** whether **screening** or RI

Linda Martin, SOUTHNAVFACENGCOM:

- Site 35 **will be RI/FS**. Because Site **13** was added late, it will be screening site

Allison Drew, USEPA:

- **will** Navy submit **screening** sites **separate** in the future?

Linda Martin, SOUTHNAVFACENGCOM:

- **Agreed.**

Allison Drew, USEPA

- Comments **2, 3, 4, 5**

Linda Martin, SOUTHNAVFACENGCOM:

- **Agreed.** Change made. No further work **needed** at Site **13** **except** for removal of drying **beds** at old wastewater treatment plant.

**Jorge Caspary, FDEP**

- Florida would like to change agency review time **from 90 to 45 days**, and response to comment time from 60 to **30 days**.

**Linda Martin, SOUTHNAVFACENGCOM**

- BRAC **will** take precedent over other **bases**, I don't think that **will** be possible.

**Jorge Caspary, FDEP:**

- Doesn't need to be mandatory, just **try** for it.

**Linda Martin, SOUTHNAVFACENGCOM:**

- No problem with that. How do we show this? **AS long as** the USEPA doesn't mind.

**James Malone, SOUTHNAVFACENGCOM:**

- Makes the Navy look bad asking for **an** extension What if agencies **miss** a deadline?

**Eric Nuzie FDEP:**

- We will ask for **an** extension.

**James Malone, SOUTHNAVFACENGCOM:**

- What if Navy **says** No?

**Eric Nuzie FDEP:**

- Partnering.

**James Crane, FDEP:**

- The state is committed to meeting schedules. However, the schedules **are** long **because** of review time.

**Linda Martin, SOUTHNAVFACENGCOM:**

- Multiple OUs going at the same time. **Let's** look at Pensacola site by site per category.
- Let's briefly address USEPA comments on **SMP**.
- IR **does** not control other programs. Only the transferred USTs.

**Eric Nuzie, FDEP**

- FDEP *can* provide **SMP** for **petroleum** UST sites.

**Lt. Cozaleos, PWC:**

- PWC *can* provide alternative technologies **database** on upgrades

**Linda Martin, SOUTHNAVFACENGCOM:**

- BRAC will **keep you** informed **as** best **as** possible.

**It. Cozaleos. PWC:**

- PWC is very involved in BRAC. Buildings 3557 and 3540 Hazardous waste storage will remain

**Bill Hill, SOUTHNAVFACENGCOM:**

- We will be involved in BRAC.

**Linda Martin, SOUTHNAVFACENGCOM:**

- As of 10/12/93, NAS Memphis will have 2 to 3 firefighting facilities moving down.
- BRAC dates are being streamlined.

OCTOBER 14, 1993

Linda Martin, SOUTHNAVFACENGCOM

- **Good Morning**
- OU 10 comments--Start with John Mitchell

John Mitchell, FDEP

- Wetlands at OU 10

Linda Martin, SOUTHNAVFACENGCOM:

- The wetlands will be studied with Site 41

John Mitchell, FDEP:

- **Since** the impact is related to OU 10, study it now.

Linda Martin, SOUTHNAVFACENGCOM:

- **Based** on M a y meeting, study **all** at **once**.

John Mitchell, FDEP

- It will have continued impact. **As** resource trustee, the commander **will** be liable for the impact from OU 10.

Linda Martin, SOUTHNAVFACENGCOM:

- All sites have this potential. There **are** also no **agreed** trigger levels.

Paul Stoddard, E/A&H:

- Is concern about remedial effort?

John Mitchell, FDEP:

- The wetland is already dead.

Paul Stoddard, E/A&H:

- What about the swale **area** north of **IWTP**?

David Clowes:

- What **site** is **this**?

Henry Beiro, E/A&H:

- Site 41

Jorge Caspary, FDEP:

- **USEPA** is asking for toxicity **information**

Linda Martin, SOUTHNAVFACENGCOM:

- There are no agreed trigger levels.

Jorge Caspary, FDEP:

- Magazine Point Peninsula is both a source and a receptor
- Devise a boundary so wetlands can be investigated as part of OU 10.

David Clowes:

- The wetlands are broken out b u s e of other sources

Fred Sloan, USEPA:

- You will need to examine sources to the wetlands.
- Everything will need to be reinvestigated

Linda Martin, SOUTHNAVFACENGCOM:

- If funding comes, January is wetlands start date.

David Trimm, E/A&H:

- The wetlands study may have impact as a contingency,

John Mitchell, FDEP:

- FDEP and USEPA are suggesting the change in approach since the levels are injurious.

Linda Martin, SOUTHNAVFACENGCOM:

- The bilge water spill is under state jurisdiction, Wetlands can be a receptor from that spill.

John Mitchell, FDEP:

- Since the Southern Drainage Ditch flows into Bay also a source

Linda Martin, SOUTHNAVFACENGCOM:

- We will collect another round of samples and perform a removal on the swale area.

John Mitchell, FDEP:

- Why was the spill area and drainage ditch investigated?

Henry Beiro, E/A&H:

- E&E proposed to investigate it in work plan as overflow. The ditch was investigated, not the wetland. The spit is currently blocked.

John Mitchell, FDEP:

- Base commander's liability.

**David Trimm, E/A&H:**

- What would you like to **see**?

**John Mitchell, FDEP:**

- Remediation of ditch

**Paul Stoddard, E/A&H:**

- Would removal of **source** suffice?

**Allison Drew, USEPA**

- Is there a N/S drainage ditch

**Henry Beiro, E/A&H:**

- Yes, but there is no water

**Jorge Caspary, FDEP:**

- Overlap of **tanks** and IR program. We will need **to** address **back** at the **office**

**Linda Martin, SOUTHNAVFACENGCOM:**

- Bilge water **spill** station handling contract. **Agree** that something **needs** to **be** done.

**Lt. Cozaleos, PWC:**

- Recommended excavation and monitoring in that **area**.
- UWF and **USEPA Gif** Breeze would like to use site **as** bioremediation pilot study.
- UWF had taken samples approximately one year **ago**.

**Bill Hill, SOUTHNAVFACENGCOM:**

- What time frame?

**Lt. Cozaleos, PWC:**

- February/March of **1992** **spill** time

**Linda Martin, SOUTHNAVFACENGCOM**

- Right now, wetlands will **be** studied **as** one. We will discuss among ourselves about site by site.
- One other question is whether bilge water **spill** is under **Florida** jurisdiction or part of IR

**John Mitchell, FDEP:**

- Tie information back to Bayou Grande

**Linda Martin, SOUTHNAVFACENGCOM:**

- We will investigate **terrestrial** sites first, then tie back **into** **surface** water bodies

**Jorge Caspary, FDEP**

- Is Site 13 going to continue.

**Linda Martin, SOUTHNAVFACENGCOM:**

- That is a problem remaining from yesterday.

**Jorge Caspary, FDEP:**

- The **only area** of concern is the old WWTP
- The former sludge *drying* beds could be **removed**.

**Allison Drew, USEPA:**

- Is that part of Site 13 or 35?

**Henry Beiro, E/A&H:**

- It is not mentioned in old reports.

**Jorge Caspary, FDEP:**

- **Can** we remove the beds?

**Lt. Cozaleos, PWC:**

- We *can* take *care* of it.

**Linda Martin, SOUTHNAVFACENGCOM:**

- We **will** write a removal action plan for the beds.

**Jorge Caspary, FDEP**

- The groundwater downgradient of the beds had a small hit.

**Paul Stoddard, E/A&H:**

- We will treat groundwater as a whole.

**Allison Drew, USEPA:**

- Site 13 *can* be carried through **as** a No Further Action for the RI, but not the FS.

**Linda Martin, SOUTHNAVFACENGCOM**

- It is agreed that **an** immediate removal plan will **be** written for the old WWTP at Site 13.
- No further action will **be** recommended **in this report**.

**Paul Stoddard, E/A&H:**

- What about the recommendation for removal **action**?

**Allison Drew, USEPA**

- **Keep** in document.

**David Clowes, FDEP**

- Problem with the clay material acting as an aquiclude to prevent groundwater

**Paul Stoddard, E/A&H:**

- The clay was surficial soil pushed down.

**Henry Beiro, E/A&H:**

- The fill area is the clay material.

**David Clowes, FDEP:**

- Will not preclude migration?

**Henry Beiro, E/A&H:**

- No.

**Allison Drew, USEPA:**

- We need a better explanation for the chlorinated VOCs in the soil gas results.

**Fred Sloan, USEPA:**

- Historical data not discussed in the report. Chlorinated VOCs have been detected in the past.

**Henry Beiro, E/A&H:**

- It is an anomaly to us. We are comparing Level II to Level IV data.

**Fred Sloan, USEPA:**

- How can correlation be made. There are nine DCE hits around the swale area

**Paul Stoddard, E/A&H:**

- They are low hits

**Fred Sloan, USEPA:**

- There needs to be a better historical discussion

**Jorge Caspary, FDEP:**

- Did you look at the recovery system?

**Henry Beiro, E/A&H:**

- Insufficient

**Paul Stoddard, E/A&H:**

- The partitioning coefficient of the soil would limit the migration.

**ked Sloan, USEPA:**

- Other groundwater data is based on historical for DNAPLs.

**Henry Beiro, E/A&H:**

- We will make it clearer.

**ked Sloan, USEPA:**

- Need **to** include **an** interpretation of data, **and a** better write up of available data.
- **Also** need to **discuss** the effectiveness of the **recovery** system.

**Linda Martin, SOUTHNAVFACENGCOM:**

- Now let's address the attachment

**Jorge Caspary, FDEP:**

- On the aquifer tests, the State agrees.
- The long-term pumping tests *can* wait until RD/RA.
- What has been done, will give you **an** idea of what's out there.

**Henry Beiro, E/A&H:**

- Agree. The long-term tests will **be** done. It is **just a** matter of when.

**Allison Drew, USEPA:**

- **During** remedial designs, the pumping tests **are** helpful in delineating the plume.

**Paul Stoddard, E/A&H:**

- Explain how. Our position is long-term pumping tests done early **will** need to **be** redone.

**Linda Martin, SOUTHNAVFACENGCOM.**

- If another firm does it, they will also not accept the **earlier** tests.

**Allison Drew, USEPA:**

- Whytwice?

**Paul Stoddard, E/A&H:**

- Length of time **between** tests.
- Conditions may change

**Allison Drew, USEPA:**

- How much more expensive?

**Henry Beiro, E/A&H:**

- A lot. They will **need** different design.

**Allison Drew, USEPA:**

- What about swabbing existing wells?

**Henry Beiro, E/A&H:**

- Metal precipitation in the surficial zone would make it not effective

**Allison Drew, USEPA:**

- We agree as long as it is done during RD.

**Jorge Caspary, FDEP:**

- Next comment is on purging. The state has no problem with bailing.

**Fred Sloan, USEPA:**

- It was a poor choice to use BK hand pump for purging because of the agitation of the water column.

**Henry Beiro, E/A&H:**

- Agreed. We will not use hand pump for purging.

## BREAK

**Fred Sloaa, USEPA:**

- It was agreed not to use hand pump for purging?

**Paul Stoddard, E/A&H:**

- Yes

**Fred Sloan, USEPA**

- The USEPA SOP does not say that bailers cannot be used for purging and never will say that.
- Given the history of the site with turbidity, we recommend bailers not be used.

**Paul Stoddard, E/A&H:**

- No problem with that. Micropurge for metals samples.

**Fred Sloan, USEPA:**

- Micropurge, what is that?

**Paul Stoddard, E/A&H:**

- Peristaltic pump will only influence the small area around the pump.

**Fred Sloan, USEPA:**

- **Use only Grundfos pumps**

**Paul Stoddard, E/A&H:**

- We **will** propose to use peristaltic and Grundfos

**Fred Sloan, USEPA:**

- If it **was** me, in a low **flow** situation, **use peristaltic.**
- If high flow situation (3 to 4 gpm) use **Redi-flow.**

**Henry Beiro, E/A&H:**

- What about Micropurging?

**Fred Sloan, USEPA**

- Open to that.

**Paul Stoddard, E/A&H:**

- **How** is Grundfos different from hand pump during purging?

**Fred Sloan, USEPA:**

- You don't understand.

**Paul Stoddard, E/A&H:**

- **How** is a hand pump different from a Grundfos **pumping** at 4 gpm?

**Henry Beiro, E/A&H:**

- We **will** be consistent on our purging technique.

**David Trimm, E/A&H:**

- Will addendum to the SOP/QAM **be** issued?

**Fred Sloan, USEPA:**

- **No.** There may **be** a new revision issued.

**David Trimm, E/A&H:**

- Is there quantification on this?

**Fred Sloan, USEPA:**

- No--qualitative **only.**

**David Trimm, E/A&H:**

- Should **all** sampling be done the **same?**

**Fred Sloan, USEPA:**

- **No. Use** Grundfos on deep, fultz on intermediate and peristaltic on shallow.

Allison Drew, **USEPA:**

- You would like to reserve the right to **use** bailers?

Henry **Beiro, E/A&H:**

- Yes, it is **very cost** effective

**Fred Sloan, USEPA**

- But the report says low to substantial turbidity.
- Would like assurance in writing that if elevated turbidity shows up, it **will** be corrected.
- Put in **CSAP** that if turbidity shows up, **will** use peristaltic or **Grundfos** pumps.

Henry Beiro, **E/A&H:**

- That's probably a function of the writer who confused discoloration with turbidity.

**Fred Sloan, USEPA:**

- There is a difference **between** turbidity and discoloration.

**Linda Martin, SOUTHNAVFACENGCOM:**

- Let's move on.

**Fred Sloan, USEPA:**

- What about bailers?

Henry **Beiro, E/A&H:**

- We reserve the right.

**Fred Sloan, USEPA:**

- Put in **CSAP** about turbidity considerations.

David Clowes, **FDEP**

- What did you use for groundwater **sampling**?

Henry **Beiro, E/A&H:**

- Bailers. We **will** make it clear

Jorge Caspary, **FDEP**

- Specific Capacity Testing

Paul Stoddard, **E/A&H:**

- **Spelled** out in the letter. The equations used **correct** for development.

**Jorge Caspary, FDEP:**

- You use the Same **equations** after development?

Paul Stoddard, E/A&H:

- Yes. It is a simple and cost-effective process

**Jorge Caspary, FDEP**

- Could you do a comparison between Bradbury and others?

Paul Stoddard, E/A&H:

- We *can* do that **on** a couple of wells.

**Jorge Caspary, FDEP:**

- State has no problem with that. Next **issues** is pumping tests.
- The state has no problem with what is proposed
- Do you calculate **K** and **V** before RD?

Paul Stoddard, E/A&H:

- **correct.**

David Clowes, FDEP:

- **How** do you treat **K** and **V**?

Paul Stoddard, E/A&H:

- **Use** the surficial aquifer **as** one unit.

**Jorge Caspary, FDEP:**

- Consider it as one unit?

Paul Stoddard, E/A&H:

- Yes

**Jorge Caspary, FDEP:**

- The **report** had both confined and unconfined values. There was **not** much difference.

Paul Stoddard, E/A&H:

- We put it in **as** a convenience. We *can* **take** out **the** confined values.

**Jorge Caspary, FDEP**

- **How** did you calculate the **95% UCL**?

**Brian Mulhearn, E/A&H:**

- In accordance with the OSWER direction. **1/2** of the lowest detection value or **1/2** of **the** hit.

**Jorge Caspary, FDEP:**

- **will** not change risk calculation. I will **talk** to our **risk** assessor.
- **Since** Site **13** is no further action, Site **13** could act **as** background for OU 10 **since** **them** are no site-specific **areas** at OU 10.

**Paul Stoddard, E/A&H:**

- **Agree.** There are no site-specific background **areas** at OU 10.

**Henry Beiro, E/A&H:**

- There is one sample that is acceptable **as** background. We **need** guidance **on** establishing background.

**Jorge Caspary, FDEP:**

- We will have to defer. The Homestead **base** is **similar.** How many did they have?

**Henry Beiro, E/A&H:**

- Michigan has **guidance** for establishing background. Coefficient of variance method less than **0.5**

**Jorge Caspary, FDEP**

- Noproblem

**Linda Martin, SOUTHNAVFACENGCOM:**

- Would you use as background at OU 10 or whole **base**

**Henry Beiro, E/A&H:**

- Possible for **both.**

**David Trimm, E/A&H:**

- It would **be** statistically limited by the site.

**Jorge Caspary, FDEP:**

- What else would you do?

**Henry Beiro, E/A&H:**

- **Look** across entire base

**Fred Sloan, USEPA:**

- Our feeling is it should **be** **near** source but not **collocated.**

**Jorge Caspary, FDEP**

- My fear is the site is above background. It would **be** **best** to keep it close to the site.

**Paul Stoddard, E/A&H:**

- Same problem

**Linda Martin, SOUTHNAVFACENGCOM:**

- This could gravely affect other investigations.

**Jorge Caspary, FDEP:**

- e I will check on this.

**John Mitchell, FDEP:**

- I agree with this OU.

**Allison Drew, USEPA:**

- I will talk to USEPA risk assessor.

**Fred Sloan, USEPA**

- Are there compounds above background

**Jorge Caspary, FDEP:**

- Yes, that's why we want site-specific.

**Jorge Caspary, FDEP:**

- Comment 10. We agree that it **will** probably never be **used as** residential. State has no problem.
- e **Need** to talk about sediment criteria.

**John Mitchell, FDEP:**

- Florida values were done in **areas** that **are** always wet

**Allison Drew, USEPA:**

- Time to phone hook up with Jennifer Herndon

**Jennifer Herndon, USEPA:**

- Methods for calculating **soil** clean-up. Chlorinated benzene detected in intermediate depth wells.

**Henry Beiro, E/A&H:**

- Old plume migrating downward.

**Paul Stoddard, E/A&H:**

- The active **recovery** system is the reason for no **hits**.

**Jennifer Herndon, USEPA**

- Shallow remediation only, very odd.

**Allison Drew, USEPA:**

- Where does that leave us with **soil** clean-up goals?

**Fred Sloan, USEPA:**

- There are low levels around former sludge drying beds

**Jennifer Hemdon, USEPA**

- Any hits in **soil** borings for **chlorinated benzene**?

**Paul Stoddard, E/A&H:**

- **Soils** in that **area** showed chlorinated benzene

**Allison Drew, USEPA:**

- Should additional **soils** be collected?

**Jennifer Herndon, USEPA:**

- Yes, I think **so**.

**David Trimm, E/A&H:**

- If **soils** left under cap is it necessary?

**Jennifer Hemdon, USEPA:**

- No should not breach cap.

**Paul Stoddard, E/A&H:**

- **We** will look at RCRA data to **see** what was left

**David Trimm, E/A&H:**

- Maybe dirty closure because of groundwater?

**Allison Drew, USEPA:**

- Do you want to include **any** additional information?

**Jennifer Herndon, USEPA:**

- Yes

**Allison Drew, USEPA:**

- Incorporate into the **report** or bring someone in?

**Jennifer Herndon, USEPA**

- Incorporate into the **report**. The next comment is **27**. **Looked at** specific capacity tests and slug tests, based **on** chemicals entering **is a** lower conductivity.
- **Clay** with Navy's **position**, but **basis needs to be established**.

**Paul Stoddard, E/A&H:**

- We will look at lithologic logs **to see** if there is a distinct **break**

**Jennifer Herndon, USEPA:**

- There is **an organic** horizon at **18'** below land surface.
- Don't have a problem with using thickness of screened intervals **only** if **equal** to aquifer thickness.

**Paul Stoddard, E/A&H:**

- We will double check

**Jennifer Herndon, USEPA:**

- **Specific** capacity tests did not change before or after development.
- **Concerned** about construction and development.

**Paul Stoddard, E/A&H:**

- Only wells **installed** using mud **rotary** were intermediate. We did a **before** and after development comparison.

**Jennifer Herndon, USEPA**

- Do you surge and overpump?

**Henry Beiro, E/A&H:**

- Doing both.

**Jennifer Herndon, USEPA:**

- Are you using slot **PVC** for **screen**?

**Linda Martin, SOUTHNAVFACENGCOM?**

- **Yes**

**Jennifer Herndon, USEPA:**

- I would suggest using a continuous slot to increase well efficiency

**Paul Stoddard, E/A&H:**

- **Agree**

**Jennifer Herndon, USEPA:**

- Especially for recovery well

**Paul Stoddard, E/A&H:**

- **Agree**

**Jennifer Herndon, USEPA:**

- Comment 29. Redevelop existing or install new recovery wells? I would prefer new to control construction.

**Paul Stoddard, E/A&H:**

- Agree

**Jennifer Herndon, USEPA:**

- Step drawdown to determine specific capacity?

**Paul Stoddard, E/A&H:**

- Yes

**David Clowes, FDEP:**

- We will need to look at lithologic logs to determine if there is a break

**Allison Drew, USEPA:**

- General Comment 1
- Most data gaps are filled include in report. Swale area may be acting as a wetland.
- Also, a number of previously unidentified wetlands are included. Include delineation of wetlands.

**Paul Stoddard, E/A&H:**

- Agreed

**Allison Drew, USEPA:**

- The N-S drainage ditch was it sampled during RI

**Linda Martin, SOUTHNAVFACENGCOM:**

- The wetlands will be investigated under a separate RI

**Allison Drew, USEPA:**

- Differences in the detected concentrations

**Henry Beiro, E/A&H:**

- It does not extend to drainage ditch

**Linda Martin, SOUTHNAVFACENGCOM:**

- The Navy will continue to look at the Bilge Water spill and the drainage ditch

**Allison Drew, USEPA:**

- Are all the data electronic?

**Henry Beiro, E/A&H:**

- Interchange file format
- Input into ARCFINFO
- We will talk to Phyllis at **USEPA**
- If you would like, we *can* give you Format **A**.

**Fred Sloan, USEPA:**

- Not useable

**Linda Martin, SOUTHNAVFACENGCOM:**

- The photogrametric survey is due 10/18. All data will go into ArchInfo,

**Allison Drew, USEPA.**

- Comment 11. When would it not be possible?

**Paul Stoddard, E/A&H:**

- It is already in.

**Bill Hill, SOUTHNAVFACENGCOM:**

- We will strike where possible

**Allison Drew, USEPA:**

- There is a typographical error. Add "and deep"

~~Fred~~ **Sloan, USEPA:**

- I have a comment on "Blind Samples"

**Henry Beiro, E/A&H:**

- Samples are singly blind, not doubly blind.

**Fred Sloan, USEPA:**

- Duplicates should only **be** identified with hypothetical numbers.

**Allison Drew, USEPA:**

- Could you **use** a different letter?

**Henry Beiro, E/A&H:**

- Most **are** already used.

**Linda Martin, SOUTHNAVFACENGCOM:**

- The Navy checks laboratories.

**Fred Sloan, USEPA:**

- Comment **23**. Surface water sampling. Should use *direct dipping* of sample container

**Henry Bern, E/A&H:**

- There was too much floating **debris**

**Fred Sloan, USEPA:**

- What **kind** of **jar** was **used**?

**Henry Bern, E/A&H:**

- I-Chem 1-liter laboratory **jar**
- The **depth** was not available for **anything** else
- Where do you want surface water samples collected?

**Fred Sloan, USEPA:**

- At surface

**Henry Beiro, E/A&H:**

- For VOCs?

**Fred Sloan, USEPA:**

- Yes. Next question is Comment 40

**Linda Martin, SOUTHNAVFACENGCOM:**

- **Only** at OU 10--no further investigation.
- Other sites may **need** further investigation

**Fred Sloan, USEPA:**

- QA/QC samples did not follow protocol. What is the **ASTM** water?

**Henry Beiro, E/A&H:**

- The water goes through a prefilter and a microfilter. It is nice water.

**Fred Sloan, USEPA:**

- Why **are you** getting low hits?

**Henry Beiro, E/A&H:**

- The low hits **are** attributed to the laboratory.

**Fred Sloan, USEPA:**

- Are you **certain** you have pesticides?

**Henry Bern, E/A&H:**

- Not sure.

**Fred Sloan, USEPA:**

- The data **looked** fishy. You will fix the **Appendix**.

**Henry Beiro, E/A&H:**

- Yes, we **will** put a legend at the end

**Fred Sloan, USEPA:**

- I **am** bothered by the turbidity. Dynamac is saying it is a problem.

**Paul Stoddard, E/A&H:**

- We **will** look at it on a site-by-site **basis**.

**Allison Drew, USEPA:**

- **Normal** distribution may **be** used. Most **are** log or exponentially distributed.

**Jorge Caspary, FDEP:**

- That's if you have large population.

**Allison Drew, USEPA:**

- Comment **51** and **58** about background have already been discussed.
- Comment **53** change contaminants to chemical

**Henry Beiro, E/A&H:**

- **Agreed**

**Allison Drew, USEPA:**

- Comment **57**. Exposure scenarios

**Paul Stoddard, E/A&H:**

- **We will** do exposure scenario for **both**.

**Allison Drew, USEPA:**

- Comment **59** - Add footnote that inhalation is not a problem.

**Paul Stoddard, E/A&H:**

- **Agreed.**

**Allison Drew, USEPA**

- Comment **60**.  $10^{-6}$  is industrial.
- Include range of  $10^{-4}$  to  $10^{-6}$ , but do not reference to **specific scenario**.

**Paul Stoddard, E/A&H:**

- **Agreed.**

**Allison Drew, USEPA:**

- Comment **64**. Response acceptable.
- Average **scenario** moved to Appendix

**Brian Mulhearn, E/A&H:**

- UCL only.

**Allison Drew, USEPA:**

- Comment 76. Delete Appendix Q, but include description of toxic effects.

**Brian Mulhearn, E/A&H:**

- We will include a table

**Allison Drew, USEPA:**

- **Clarification** for people who don't understand

**Brian Mulhearn, E/A&H:**

- Agreed.

## LUNCH

**Bill Hill, SOUTHNAVFACENGCOM:**

- The bilge water **area** will not **be** included in the **OU 10 RI**.
- The northern wetland will **be** done through human health.

**John Mitchell, FDEP:**

- Sampling in the ditch south of OU 10 **has been** conducted.
- It is a potential source.

**Linda Martin, SOUTHNAVFACENGCOM:**

- The plan is not approved. **Can only** look at it as a human health **risk**.

**John Mitchell, FDEP:**

- They **are** identified **areas**. It is part of **RI** process **to perform an** ecological assessment.

**Paul Stoddard, E/A&H:**

- a** The source **has** been diminished.

**John Mitchell, FDEP:**

- o The wetland is **a fill** area.

**Paul Stoddard, E/A&H:**

- **Any risk** to human health **will** mitigate sources.

**John Mitchell, FDEP:**

- Acknowledge.

**Fred Sloan, USEPA**

- The extent of contamination defines the site.

**John Mitchell, FDEP:**

- On a *case by case* basis, wetlands shown to have been impacted ...

**Linda Martin, SOUTHNAVFACENGCOM:**

- It is a bean count. Change to OU 10 or Site 41, it will still be January.

**John Mitchell, FDEP:**

- I would like to see a removal action on the drainage ditch

**Paul Stoddard, E/A&H:**

- That would have to go back to the background/control data.

**Fred Sloan, USEPA:**

- There should be good control samples by the northern fence.

**John Mitchell, FDEP:**

- I want to see removal of sediment.

**Paul Stoddard, E/A&H:**

- High is a relative term depending on trigger levels.

**Jorge Caspary, FDEP:**

- We have an intermingling of programs.

**Paul Stoddard, E/A&H:**

- Waiting until Site 41 investigation

**Jorge Caspary, FDEP:**

- The DEP is concerned about the natural resources of the drainage ditch

**David Criswell, SOUTHNAVFACENGCOM:**

- The wetland including the bilge water spill is included in Site 41.

**Allison Drew, USEPA**

- Are concentrations high?

**John Mitchell, FDEP:**

- Total pesticides and chromium are high

**Allison Drew, USEPA:**

- Would like to see area north of fence based on human health

**Linda Martin, SOUTHNAVFACENGCOM**

- If station *can* do it, summer would be the earliest

**Lt. Cozaleos, PWC:**

- PWC *can* do the work

**Bill Hill, SOUTENAVFACENGCOM**

- Agreed to do IRA for old IWTP?

**Linda Martin, SOUTHNAVFACENGCOM:**

- We will study drainage ditch and northern area.
- If IRA is needed we will do.

**Joan DuPont, USEPA:**

- General Comment 1
- Is there coordination with FDEP UST program?

**Allison Drew, USEPA:**

- Southern drainage ditch will be addressed as far as human health, ecological will be done later.

**Joan DuPont, USEPA:**

- Cross purposes

**Allison Drew, USEPA:**

- Dropped out of FS. It is not a human health problem.

**Linda Martin, SOUTENAVFACENGCOM:**

- When the work plan is approved field work on Site 41 will start in January, 1994.

**Joan DuPont, USEPA:**

- What about sediment action levels?

**Paul Stoddard, E/A&H:**

- There are Long and Morgan values and Florida values.

**Joan DuPont, USEPA:**

- Comparison of Long and Morgan values and Florida values.

**Paul Stoddard, E/A&H:**

- 20% of NOAA using to start.
- From FDEP more comfortable with Florida values

**John Mitchell, FDEP:**

- If sometimes wet/dry would rather ~~see~~ **ER-L**. If always wet, PEL.

**Paul Stoddard, E/A&H:**

- Combination of **ER-L** and **PEL**.

**Joan DuPont, USEPA:**

- **John agrees** with **PEL**?

**John Mitchell, FDEP:**

- **Does** not agree with PEL—it is **too** high.
- For always wet, **use TEL**

**Joan DuPont, USEPA:**

- **Florida PEL** is too high.

**John Mitchell, FDEP**

- **TEL** is **2 x NOEL**

**Linda Martin, SOUTHNAVF'ACENCOM**

- The **Navy** proposes to use **20%** of the Long and **Morgan** numbers based on grain size, TOC and bathymetry,
- The percentage of **risk** is lower than if random.

**Paul Stoddard, E/A&H:**

- Accept **risk** if contaminants **are** bio-available and a tech memo will **be** issued at the end of each phase.

**John Mitchell, FDEP:**

- Joan how do you feel about 20%?

**Joan DuPont, USEPA:**

- Maybe reasonable, but I'm cautious.
- I will **talk** to Lynn Welman the **ETAG** leader.

**Linda Martin, SOUTHNAVF'ACENCOM:**

- If **Florida** is **okay** with it, we will use it for **all**.

**Joan DuPont, USEPA:**

- I want more time **to** think about it. Has **this been used anywhere** else?

**Linda Martin, SOUTHNAVF'ACENCOM**

- **No**. It was an assignment for the CLEAN contractor **to** setup **database to compare actual** results to **20%** number.

- We **will** submit a formal proposal for **negotiating** trigger levels.

**Joan DuPont, USEPA:**

- **Use only** as screening tool

**Linda Martin, SOUTHNAVFACENGCOM:**

- It is our intent to use them as screening tools **only**,

**Joan W o n t, USEPA**

- **Compare** surface water to federal **and** state water **quality standards**.

**Linda Martin, SOUTHNAVFACENGCOM:**

- Yes

**Joan DuPont, USEPA:**

- Compare the **detected** concentrations with ground **water standards** qualifying it with attenuation **and** dilution.

**Paul Stoddard, E/A&H:**

- We agree to that.

**Joan DuPont, USEPA:**

- Comment **70B**. IF **full scan data** concentrations of calcium **and** magnesium

**Henry Beiro, E/A&H:**

- Stoichiometric calculation **only**

**Joan DuPont, USEPA:**

- Comment **71**. There **are 2** approaches to doing a **terrestrial assessment**.
- 1) a qualitative survey using **an** overlap of concentrations **and** habitats **and** literature searches or;
- 2) quantitative which is trice.

**Paul Stoddard, E/A&H:**

- We agree.

**Joan DuPont, USEPA:**

- Model **2** organisms

**Allison Drew, USEPA**

- Is there **an** outline for ecological **risk** assessment?

**Joan DuPont, USEPA**

- Looking at **risk** assessment for ecological **concerns**

Linda Martin, SOUTHNAVFACENGCOM:

- Have not discussed yet.

Paul Stoddard, E/A&H:

- We will build into next version

Linda Martin, SOUTHNAVFACENGCOM

- For terrestrial only

Joan W o n t, USEPA:

- How will wetlands be selected?

Linda Martin, SOUTHNAVFACENGCOM:

- Pathway from sources

Joan DuPont, USEPA:

- What about background?

Linda Martin, SOUTHNAVFACENGCOM:

- Except for background

Joan DuPont, USEPA:

- Homestead Air Force base had both base-wide and site-specific

Linda Martin, SOUTHNAVFACENGCOM:

- We will discuss trigger levels

[MEETING ADJOURNED @ 3:30 p.m.]

**ENVIRONMENTAL MEETING NOTES**  
**NAS PENSACOLA**  
**OCTOBER 13 AND 14, 1993**

OCTOBER 14, 1993

General Comments

- Groundwater sampling procedures will be further clarified in the **CSAP**. Techniques for monitoring well purging and sampling will be selected on a ~~case~~ by case basis based on turbidity.
- FDEP and USEPA will present the Navy with guidance on selecting sufficient background samples. Discussion will also continue on background **as** a base-wide or site issue.
- Approach for calculating 20% levels from the Long and Morgan ~~report~~ is acceptable. The Navy is to submit the approach formally.
- Aquifer testing will be completed at OU 10 during RD.
- The potential for false positives will be evaluated as the ~~data~~ becomes available.

OU 10 Specific Comments

- Aquifer testing will be completed at OU 10 during RD.
- The wetlands located near OU 10 will be studied first during the Site 41 investigation. This investigation is scheduled to begin in January **1994**.
- Fill **areas** wetlands will be addressed for human **health** risk in OU 10 RI ~~report~~.
- Terrestrial ecological assessment **will also be** addressed in OU 10 RI ~~report~~.
- Appendix P will be modified. A legend **will** be presented explaining sample **designations**.
- A historical **summary** (and **data** interpretation) will be added to the OU 10 RI report including **the** effectiveness of the recovery system.

*[Handwritten signatures]*  
Alvin Danner  
Wilhelm F. Hill

*[Handwritten signature]*  
Alvin Danner  
Kinde A. Martin

ENVIRONMENTAL MEETING NOTES  
NAS PENSACOLA  
OCTOBER 13 AND 14, 1993

OCTOBER 13, 1993

Sites 30 and 38

- **Look** at historical information including connections to the Industrial ~~Waste~~ Line and maintenance to waste leaks. On known leaks, will compare to work already completed.
- If there are major data gaps, the Navy will submit a proposal for additional investigation to determine how to fill gaps.
- If no gaps, Navy will write draft RI report
- Tentatively, Sites 11, **25** and 27 will be incorporated into one OU with Site 30.
- Modify Site 30 and 38 SAP Addendums **to** explain biasing already incorporated and include this agreement in SAP text.

Site 36

- Available to include any previous investigation requests
- Maintenance records to plan our investigative approach

Alvin W. Owen  
Rd. [unclear]  
William J. Hill

[unclear]  
Allison Danner  
Linda A. Martin