

FINAL
November 18, 1996

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NAS PENSACOLA ECO MEETING SUMMARY

N00204.AR.001239
NAS PENSACOLA
5090.3a

Date: November 6 - 7, 1996 Place: Atlanta

Attendees: Bill Hill (Meeting Leader) Bill Gates (Facilitator/Notetaker)
John Mitchell (FDEP) Denise Klimas (NOAA)
Joan Dupont (EPA) Chuck Mason (EnSafe)
David Trimm (EnSafe)

Guests: Melissa Waters (NOAA) Lynn Wellman (EPA)

	STATUS OF ACTION ITEMS FROM PREVIOUS MEETING	STATUS
9609-ED02	Wetland 6 sample locations 10 and 11 become part of Wetland 64 contingent on field confirmation by David.	Complete - 10 and 11 will remain with Wetland 6 because they are freshwater.
9609-ED03	Wetland W2 remains fresh water contingent on field confirmation by David.	Complete - W2 remains fresh above its confluence with W1 and estuarine below.
9609-EA01	Chuck to confirm wetland surface water sampling data available.	Complete - See Site 41 TM of October 30, 1996.
9609-EA02	Chuck to compile individual PAHs and pesticides contamination results, TELs, and PELs for all wetlands including surface water data.	Complete - See Site 41 TM of October 30, 1996. Revised TELs will be included in the RI.
9609-EA03	Chuck to resolve Wetlands 52 and 56 sampling locations A1.	Complete - Wetland 56, A1 is correct. Wetland 52, A1 is located on the west side and will be corrected in the RI.
9609-EA04	Chuck to change TOC units to percent.	Complete - See Site 41 TM of October 30, 1996.
9609-EA05	Chuck to further describe Wetland 79 because it has the potential to be eliminated as having a wetland determination.	Complete - See Site 41 TM of October 30, 1996.
9609-EA06	Chuck to present above by Nov. 1	Complete - See Site 41 TM of October 30, 1996.
9609-EA08	Chuck to review Wetland 64 data and propose transferring a portion of 64 to Site 40	Complete - 01-06 will remain in Wetland 64. Remainder transferred to Site 40.
9610-EA09	David to contact Mike Lewis, EPA Gulf Breeze, to obtain his Site 40	Pending

sampling locations and analytical results
9610-EA10 All Eco Team members provide Complete
comments to Team on David's
Sites 40142 proposal by Nov. 1

ACTIONS AND DECISIONS GENERATED FROM THIS MEETING

Site 42

9611-ED09 No further investigation necessary for the Ecological Risk Assessment
9611-ED10 AZ 8 exceedances due to poor fuel handling practices. Partnering Team refer findings to the base, FDEP District, and FDEP Coastal Zone Management Program.

Site 40

9611-ED11 **Assessment Endpoints:**
1. Protection of benthic macroinvertebrate community
2. Protection of reproductive viability of wading and fish eating birds
3. Protection of nursery habitat for aquatic resources
4. Protection of fish viability
9611-EA11 David research EPA literature on assessment endpoints related to nursery habitats
9611-EA12 David have EnSafe risk assessors contact EPA human health risk assessors to determine human health issues in Bayou Grande
Tabled Crabs be used for human risk assessment with the understanding that a connection to the base may not be able to be established
9611-ED12 **Measurement Endpoints (linked to above assessment endpoints):**
1.a. Acute Toxicity: Survival of amphipods using 10day Leptocheirus plumulosus (Lp) solid phase test
1.b. Chronic Toxicity: Growth and fecundity using the 20-day polychaete Neanthes arenceodentata (Na) solid phase sediment test
1.c. Collect benthic community indices for qualitative assessment
2. Bioaccumulation using fish that are resident and identify uncertainties involved with using fish. If sufficient quantity of fish is not available, then use Na or caged bivalves (see 9611-EA13).
3.a. Bioaccumulation in Na
3.b. Chronic Toxicity: If Na test uses juveniles, then use the 20-day polychaete Na solid phase sediment test

FINAL
November 18, 1996

- 3.c. Acute Toxicity: Use **10-day** Lp solid phase test
4. Water quality and **all** the above to arrive at a qualitative assessment
- 9611-EA13 Denise check if juvenile Na can be used for chronic toxicity testing **and identify studies where caged bivalves have been used to relate impacts to piscivorous birds.**
- 9611-ED13 Reference Locations:
(1) **If the lab controls for grain size remain within the grain size of the samples,** then proceed without a reference location.
(2) If Lp test does not require a reference considering the range of grain size samples at Site 40, then no reference is needed.
(3) If a reference is needed, then use at least one of the **blue** stations as the reference.
- 9611-EA14 Denise confirm **reliability** of using Lp without a reference
9611-EA15 David check with lab on controls as related to grain size
9611-ED14 Measurement Endpoints/Sampling Stations:
Toxicity/All stations
Bioaccumulation (fish)/AZ2 and 4 red stations
Bioaccumulation (Na)/All stations except AZ 2,4 **blue**
Water quality/AZ1 blue, AZ2 red and north orange, AZ3 red, AZ4 red
- 9611-ED15 Use composite sampling (five sediment samples composited at each sample station)
- Site 41**
- 9611-EA16 Chuck not to include subjective wording, e.g. desirable habitat, in **RI**.
- 9611-ED 16 Delete Wetland 12 **from** study under **CERCLA**. It will be addressed under Florida's Petroleum Program.
- 9611-EA17 David contact FWS, FDEP, and NOAA St. Petersburg for inclusion of **salt marsh** top minnow and little blue heron as threatened and endangered species
- 9611-ED17 Add **Health** of Terrestrial Fauna assessment endpoint
9611-EA18 EPA, FDEP, and **NOAA** provide written comments to the Site 41 Tech Memo of October 30, 1996. Response to comments **will** be included in the RI.
- 9611-ED18 Use uptake models to address threatened and endangered species as individuals **contingent on** results of **9611-EA17**.
- 9611-ED19 The following table identifies wetland groupings and contaminants:

FINAL
November 18, 1996

Group	Wetland	Metals	PAHs	Pest/PCBs
A	64	@	@	a
B	5A	@	a	a
	3	@		a
C	4D	@	a	@
	15	@		@
	16	@		@
	18A	@		@
	18B	@		@
	63A	@		@

Notes:

- @ - primary contaminant
- a - contaminant present

9611-ED20

Assessment Endpoints:

Group A. Wetland 64:

- (1) Piscivorous bird health and reproduction
- (2) Survival, growth, and reproduction of macroinvertebrates associated with benthic environmental
- (3) Protection of fish viability

Group B. Wetlands 5A and 3:

- (1) **Undecided** - Delete piscivorous bird health and reproduction due to low contaminant levels of pest/PCB
- (2) Survival, growth, and reproduction of macroinvertebrates associated with benthic environmental
- (3) Health and reproductive impacts to fish
- (4) **Undecided** - Health of terrestrial fauna

Group C. Wetlands 18B and 16:

- (1) Wading bird health and reproduction (Wetland 18)
- (2) Survival, growth, and reproduction of macroinvertebrates associated with benthic environmental (Wetlands 18 and 16)
- (3) Health of terrestrial fauna (Wetland 18)

Measurement Endpoints (linked to assessment endpoints above):

Group A:

- (1) Bioaccumulation using killifish that are resident and identify uncertainties involved with using fish. If sufficient quantity of killifish is not available, then use Na or caged bivalves (see **9671-EA77**).
- (2)(a) Acute Toxicity: Survival of amphipods using 10-day Lp solid phase test
- (2)(b) Chronic Toxicity: Growth and fecundity using the 20-day polychaete Na solid phase sediment test

FINAL
November 18, 1996

(3) Surface water quality and benthic community indices for qualitative assessment

Group B:

- (1) **Undecided** - delete 28 day bioaccumulation in fish
- (2) Ten day survival, growth, and reproduction chronic bulk sediment bioassay for an amphipod *Hyaella azteca* (ASTM-E-1383/9)
- (3) Seven day chronic surfacewater bioassay for a fresh water fish *Pimephales promelas* (fathead minnow)
- (4) **Undecided**

Group C:

- (1) Bioaccumulation in *uca* (fiddler crab). If sufficient quantity of *uca* is not available, then use Na.
- (2)(a) Acute Toxicity: Survival of amphipods using 10-day Lp solid phase test
- (2)(b) Chronic Toxicity: Growth and fecundity using the 20-day polychaete Na solid phase sediment test
- (2)(c) Collect benthic community indices for qualitative assessment
- (3) Bioaccumulation in *uca* (fiddler crab). If sufficient quantity of *uca* is not available, then use Na.

9611-EA19

John and David check references for risk of metals to piscivorous birds and terrestrial fauna

9611-EA20

Denise check freezer time for fish

9611-ED21

Denise: Neanthes is accepted for 28 day bioaccumulation noting that its use is more reliable with metals. Interpreting data for PAHs and Pest/PCB requires caution

9611-ED22

Sample Locations and Sample Types:

Wetland 64: Benthic samples at stations 04, 05, 06. Body burden: Fish will be composited from three sample locations. Two surface water samples will be taken. One between stations 1-2 and one between stations 2-5. TOC and grain size will be analyzed for each sediment sample.

Wetland 5A: Benthic samples at stations 04, 05, 06. Surface water sample for bioassay **will** be composited from entire wetland.

Wetland 3: Benthic samples at stations 02, 07. **Volatiles** will be run at Wetland 3 only. Use same protocol as Wetland 5A.

Wetland 16: Benthic samples at station 03.

Wetland 18: Benthic samples at station B1.

9611-ED23

Group D, Wetlands 10, 6, 5B, 1, and W1: No further sampling.

9611-ED24

Group E, Wetlands 48 and 49: No further sampling at Wetland 49. Delineate Wetland 48 for pesticides only.

9617-ED25

Revise Sites 40, 47, and 42 SAPs to reflect all of the above.