

*Final*  
**MEETING MINUTES**

**FEBRUARY 29 – MARCH 1, 2000**

**INDIAN HEAD PARTNERING TEAM MEETING  
CH2M HILL WDC OFFICE  
HERNDON, VIRGINIA**

The Partnering Team meeting was held on February 29, and March 1, 2000, in CH2M HILL's office at 13921 Park Center Road, Herndon, Virginia. The following personnel attended the meeting:

Armalia Berry-Washington EFACHES (Tier II Link)  
Ed Corack – CH2M HILL  
Kent Cabbage – Tetra Tech NUS (February 29, 2000, only)  
Curtis DeTore – Maryland Department of the Environment  
Janet Eastman – Management Edge  
Anne Estabrook – CH2M HILL  
Simeon Hahn – NOAA/BTAG (by conference call on February 29, 2000, only)  
Shawn Jorgensen – Indian Head NSWC  
George Latulippe – Tetra Tech NUS  
Heidi McArthur – Indian Head NSWC  
Dennis Orenshaw – US Environmental Protection Agency, Region III  
Rob Sadorra – Naval Facilities Engineering Command, EFACHES

## Tuesday, January 19, 2000

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- **Introductions** by everyone ⇒ familiarizing group, catching up: Dennis Orenshaw (timekeeper), Anne Estabrook (host), Rob Sadorra (chair), Janet Eastman, Shawn Jorgensen, Curtis DeTore (scribe), Heidi McArthur, Armalia Berry-Washington, Ed Corack (minutes), and George Latulippe.

Review minutes from last meeting:

**DECISION:** Correct spelling of Rob Sadorra on fourth page of minutes from January 2000.

**DECISION:** Correct meeting locations: meeting on 29-30 March 2000 is in Philadelphia, PA, and meeting on 18-19 April is at Indian Head, MD.

- **Wisp Topic (Pipe lining and lessons learned)**

Rob Sadorra hands out copies of Microsoft Power Point slides (pictures and text); shows video of pipe relining activities (HANDOUT and VIDEO)

Presentation format:      Shawn - Intro/Project background  
   Dennis – Overview of technology  
   Rob – edit video and step through  
   Curtis – wrap up

**DECISION:** Remove slides 3, 4, 7, and 8 after looking at them.

Slide	Team Member	Notes
Slide 1	Shawn Jorgensen	
Slide 2	Shawn Jorgensen	
Slide 3	--	remove slide
Slide 4	--	remove slide
Slide 5	Shawn Jorgensen	something on teamwork
Slide 6	Shawn Jorgensen	
Slide 7	--	remove slide
Slide 8	--	remove slide
Slide 9	Dennis Orenshaw	
Slide 10	Dennis Orenshaw	Rob will send vendor information to Dennis
Slide 11	Rob Sadorra	
Slide 12	Rob Sadorra	
Slide 13	Dennis Orenshaw	just project costs part
Slide 13	Curtis DeTore	starting at Project savings
Slide 14	Curtis DeTore	create lessons learned slide

**ACTION:** Rob Sadorra, find an "after" photo of relined pipe by 3/10/00.

**ACTION:** Rob Sadorra, send Dennis vendor info on pipe relining by 3/10/00.

**ACTION:** Rob Sadorra, put together slides for presentation (info and photo) and email them to the team by 3/10/00.

**ACTION:** Rob Sadorra; on Slide 14 for Wisp presentation, fill in subtitles for (2) *Understanding limitations of this technology* by 3/10/00.

**DECISION:** Creating Lessons Learned Slide 14 for Wisp Presentation.

**Lessons Learned (Slide 14 for Wisp presentation):**

(1) Allow enough time for project

- Expect the unexpected
- Camera stuck during video
- Plugging up-gradient pipe was difficult due to damage in pipe itself

(2) Understanding limitations of this technology

- *Rob needs to generate bullets*

(3) Obtain as much info as you can before choosing technology for remediation

- Video inspection before choosing technology is key
- More risk involved with this technology than with traditional methods

(4) Working as a single functioning group, the team worked through the problems.

- Backup plan, regulatory buy-in beforehand, real-time problem solving

**LUNCH**

• **Janet Eastman: Partnering on Consensus**

On white board:

Consensus

Accept  
buy-in  
support  
mutually agreeable

Discussed levels of involvement in the decision-making process

Handout: Tools for building consensus

(Kent Cabbage arrives for conference call with Simeon Hahn)

- **Conference call with Simeon Hahn – NOAA/BTAG**

(Note: The following is a synopsis of points made by each speaker, not a direct transcript)

**George:** After talking to the lab, no residual sediments at the lab to run additional tests. After talking to the lab, no 10-day data for ammonia concentrations or longevity of the bugs.

**Simeon:** Going through literature for bioavailability is useful:

A lot of studies concentrated on silver sulfide; sulfides are binding compounds, but there is issue with variation in sulfide seasonally . . . a lot of the information does concern the fate of sulfur, but the toxicity test results are significant.

What form is the silver in the sediment?

**Kent:** Silver sulfide; silver speciation, and going forward with additional toxicity test?

**Kent:** If speciation determines that silver in sediments is all silver sulfide, are tox tests still necessary?

**Simeon:** Yes, if that's the case, but must pull more info together on sulfide seasonal issues . . . when did you sample.

**George:** October.

**Simeon:** That is the seasonally low side for sulfides . . . late fall and winter.

**Dennis:** Give us silver speciation info?

**Simeon:** 99.5% silver sulfide is not bioavailable, and non-toxic; silver nitrate  $LC_{50}$ 's in the range of the stream . . . Chromium has been speciated often . . . It should not be a problem to speciate silver, but no lab recommendation.

**Kent:** Kodak has done studies saying that silver in common sediment in the form of silver sulfide. They did a 10-day test with silver sulfide, using same organisms as our test, and everything was non-toxic. But cannot apply to every situation.

**Dennis:** Does this mean that silver is not the problem?

**Simeon:** Ammonia probably controlled the toxicity, so redo the test and monitor the ammonia, or control the ammonia. The ten day test is good enough, the ammonia will be less of a problem, and it is less expensive.

**Anne:** Any way to get PRG out of correlation curve if we only have speciation?

**George:** If we do speciation, and we find out that a high percentage was silver sulfide, then rather than a toxicity study, can we go to the literature?

**Simeon:** Yes, to conclude the RI; BTAG recommends that toxicity tests be repeated at some point, perhaps during monitoring.

**Shawn:** If we do toxicity tests again, can we just look at the highest concentration?

**Simeon:** You need to have replicates, a range, a gradient with 3 to 5 stations, but can probably do fewer replicates than last test.

**Dennis:** Simeon, you were talking about using toxicity test as a monitoring mechanism?

**George:** After a cap is in place, you're not going to be able to go back in there to do remediation if monitoring results show it is necessary. Postponing decision to monitoring phase is probably not feasible.

**Simeon:** I recommend doing more technical work. I would not support your decision to not do anything about the silver.

**Kent:** So, we should get silver speciation done.

**Simeon:** Yes, collect some more samples, and do speciation.

**Dennis:** If we re-run the test, and the ammonia was not the problem.

**Simeon:** Then it's not caused by ammonia, and the speciation results show mostly sulfides, then we will not know what's going on. But if speciation does not show mostly sulfides, then silver may be the culprit.

**Rob:** If all the critters die while controlling ammonia, and high sulfides, then we're back to square one?

**Simeon:** Yes.

**Rob:** Do we have to sample in the Fall again? Is speciation a function of pH?

**Simeon:** Do the tests again and control ammonia.

**Kent:** Even if speciation shows 100% silver sulfide, do we have to do toxicity?

**Simeon:** Yes, that is my recommendation.

**Dennis:** So we should sample in the winter, because that is the worst case scenario.

**Simeon:** Yes.

**George:** Since the silver concentration can't increase (no more source of silver on the base), why do we have to worry about the seasons?

**Kent:** It changes throughout the year enough to warrant that.

**Simeon:** Put together work plan for sampling and lab so that we can be sure of everything.

**Dennis:** What do we do with the ditch?

**Simeon:** Our job is to determine the contamination.

**Dennis:** So if it's not silver, then we can say we're taking no action at the site?

**Simeon:** Yes.

**Rob:** In summary, we'll go out and resample very soon to catch the end of this winter.

**Simeon:** Okay, scope that out with a memo work plan.

**END OF CONFERENCE CALL**

**PARTNERING TEAM DISCUSSING THE CONFERENCE:**

**DECISION:** We have to resample, do speciation test, and do toxicity testing controlling the ammonia. And toxicity testing sampling needs to be done before the installation of the landfill cap.

**DECISION:** We have to take Site 42 out of FS.

**ACTION:** George, make work plan with approach for sampling, describing the speciation study, and describes the toxicity testing for Site 42 by 3/17/00.

**ACTION:** Kent and George, make phone calls to see if the speciation tests are possible by 3/17/00.

Heidi brings up that new building going in, lots of water will be coming down stream; will this affect our decision?

George: As long as the silver is non-toxic, then it doesn't matter.

**ACTION:** Heidi and Shawn, check on future flow in swale at Site 42 by 3/13/00.

**Site 12, 41, 42 Draft FS Presentation**

Goal is information exchange

Site 12 landfill: cover, wetlands area

Wetlands area = 17,000 square yards

Handouts: Landfill cap details (engineered and soil cap)

Variances for groundwater will be necessary from MDE.

FS presents Alternative 3 as the preferred alternative. This is not Rob's recollection from discussions at last meeting.

~~**ACTION:** Anne, get PAX River vegetative biotic barrier information.~~

**George:** (drawing on white board, showing differences between Alternatives 2 and 3) Alternative 2 includes placing only enough fill to ensure 2 feet over entire cap. Alternative 3 includes 2 additional feet of cover plus 12 inches biotic barrier of cobbles, as well as gabion treatment around edges.

Issues included excavation of waste around edge of pond to ensure 2 feet cover (instead of rock or gabion edge treatment) and use of tall grass as a biotic barrier instead of cobbles.

**DECISION:** We must discuss Alternatives 2 and 3 to make sure we are all thinking similarly.

**ACTION:** Curtis, find out from MDE (John) about suitability of grasses/rocks for biotic layer at Site 12 by 3/10/00.

**ACTION:** Dennis, find out from BTAG about suitability of grasses/rocks for biotic layer at Site 12 by 3/10/00.

**ACTION:** Heidi and Shawn, check with IH about not mowing grass on Site 12 landfill cover and tell George by 3/10/00.

Ran out of time, will continue tomorrow morning.

- **George hands out Proposed Plan for Site 44 for review this evening.**

**END OF DAY**

## Wednesday, March 01, 2000

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- Introduction, quick conversations.
- Continue discussion from yesterday about Site 12, 41, 42 Draft FS by George

**Site 12 discussion: go over Alternatives 2 and 3 to arrive at consensus.**

**ACTION:** Dennis, check with BTAG on covering for shore line (armor/gabion/vegetation) and tell George by 3/10/00.

Alternative 2 notes: Remove and replace wetlands, insuring wetlands are intact, excavate waste along the shoreline and restore with 2 feet cover and a vegetative barrier.

**ACTION:** George, check on cost difference between rock layer versus vegetative mat on Site 12 by 3/29/00.

Alternative 3 notes: some action items need to be completed in order to finalize.

Not at consensus at this point. Draft FS will present revisions to alternatives discussed here as well as new cost estimates and preferred alternative will be selected based on that information.

### Site 42 discussion

Estimated cost \$600,000 to re-route the steam pipe

Handout of figure showing steam lines to be demolished

Estimated volume of waste: 1.5 acres, 10 ft deep, 13,000 cubic yards

2,100 square feet of wetlands, below the 5,000 square feet regulation

Pipe underneath cap?

**DECISION:** Do not run pipe under cap. Start above, make turn east, and discharge into NE-SW drainage channel.

Cooling water line may have to be installed below the hydrant line

Handout of engineered cap detail, expensive/labor intensive neoprene gasket, HDPE boot around pedestals

**ACTION:** Curtis, check on need to have barrier/boots on Site 42 cover (these are beneath the asphalt/concrete layer under the steam line) by 3/29/00.

**ACTION:** Heidi, check out documentation, daily construction logs / as-built drawings covering steam pipe footers (to see if they encountered waste in the excavations) by 3/29/00.

Similar issues with alternatives for this site (Site 42) as there were with alternatives to Site 12: same thing, but we're looking between Alternatives 2 and 3; but if we have to use an impermeable barrier, then it's between Alternatives 4 and 5.

**ACTION:** Dennis and Curtis, Site 42 suitability of alternatives number 2 and 3, screen alternatives for possible stops, and check on groundwater variance and tell George by 3/10/00.

#### Site 41 discussion

Some hits outside scrap yard; use 10x10 feet square around sample spots to excavate, then use confirmatory sampling.

Figure showing these squares, and also a triangle showing an arsenic location.

**ACTION:** Heidi and Shawn, check with Lou (Code 09) on use of railroad at Site 41 (removal of rail versus replace rail) by 3/29/00.

Cost includes removing the fence from perimeter, but have not included retaining wall in cost

**DECISION:** Let's definitely include the retaining wall in cost (plan on doing wall).

**ACTION:** Shawn, check dimensions of back wall at Site 41, ramp use and/or need and tell George by 3/29/00.

- **Discussion of Sites 11, 17, 21, 13, 25 RI Work Plan Scope by Anne and Bob (Bob Root from CH2M HILL helps out with this presentation)**

#### Site 11

Overhead projector with site map and grid

Handout of tables for each site

Anne shows potential grid expansion

If waste is below groundwater, a cap would not be of much use.

Proposed analyses: TCL VOCs, SVOCs, TAL Metals, and Explosives (including ammonium perchlorate, nitroglycerin, nitroguanidine, nitrocellulose, and PETN)

George mentioned that there may not be eco or HH screening levels for nitrocellulose, so collecting this data may not be very useful.

Heidi mentioned petroleum products were used to start fires and suggested testing for TPH.

**DECISION:** Should include TPH in analyses, even though TPH is not under CERCLA.

**ACTION:** Anne, check for eco tox screening level for nitrocellulose by 3/29/00.

**ACTION:** Shawn, find letter from Army Corps of Engineers about removing fill placed at Site 11 by 3/10/00.

Unsure of where waste is, and that's why grid approach is used. Better estimate of maximum number of samples is 45; may not actually be taking 3 samples per location (surface soil, waste, subsurface soil beneath waste but above water table).

Heidi points out that this work plan needs to go through IH Safety Department.

#### Site 17

Heidi points out that yellow substance on drums is probably lecithin. Used as a stabilizer in explosives production. Since it is a food additive, it is not toxic.

**DECISION:** Since all drums may not have contained this food additive, investigation must still continue.

**ACTION:** Heidi, get Anne and Bob the results on yellow substance on drums (maybe lecithin) by 3/10/00.

**DECISION:** Although we will now know about yellow substance (Phase 1 at this site), we still need to take soil samples.

Also taking sediment samples along shore to address historic reports of metal parts disposal.

Phase 2 will combine with Phase 1, if there is surface soil contamination, then put in groundwater monitoring wells

**DECISION:** If subsurface soil samples come back negative, then we'll be comfortable not putting in groundwater wells.

#### Site 13, Paint Mixing Area

Surface and subsurface samples; biased towards edge by building, because solvents were probably just dumped over edge.

Groundwater table could be 60 feet deep

Groundwater wells put in during phase 2 if there are hits in soil samples

Paint mixing activities took place from 1953 to 1979

*Question* from Anne: Does MDE like the phased approach?

*Answer* from MDE (Curtis): I like the soil samples, groundwater well not necessary if you don't find soil contamination that deep.

**DECISION:** Soil samples necessary, and subsequent groundwater sampling only necessary if you find soil contamination.

**Site 21, Bronson Road Landfill**

Limits of fill in historical documents are probably not accurate

Probably should investigate from Bronson Road up to tree line

Do electromagnetic surveying to find limits of waste

Soil sampling on 100-foot grid (for surface soil) – grid will be adjusted based on results of EM survey.

Soil borings on east (uphill) side, test pits on west side

Groundwater wells will be put in right away, without the phased process

**ACTION:** Heidi, Find out from Jeff at IH about how much buildup at Site 21 over last 3 years by 3/10/00.

**ACTION:** Heidi, email pictures of Site 21 to Anne by 3/10/00.

**Site 25, X-Ray Building**

Discharge probably coming from pipe on side of loading dock

Field observation of natural conduit swales

Take surface samples along these swales

Samples in depression on southeast side of building

**ACTION:** Heidi, check EBS on nitroglycerin annealing oven in building 579 by 3/10/00.

Add sample location to area near IW 46, downstream of culvert crossing the road by building 579

**QUESTION:** Just analyze for NG on explosives?

**ANSWER:** Sampling for metals, VOCs, SVOCs, and only nitroglycerin (instead of all explosives)

**ACTION:** Heidi, check on historical processes at Building 588 by 3/10/00.

**DECISION:** Use TetraTech and Brown and Root Master Work Plans, submit an addendum to those master work plans, and then submit site specific work plans.

*Question* from Anne: Schedule for work plans, due on March 13, but we could use an extra week.

*Answer* from Rob: End of March.

**DECISION:** Work plans due at end of March.

- Tier II Input by Armalia

Entrance process . . . John T. was not clear on who Heidi was (he may have missed our entrance procedures at last meeting).

Joint meeting: Tier II will send out a draft agenda March 10

**ACTION:** Rob, send Armalia copy of January 2000 minutes by 3/6/00.

For quarterly reports:

Show project by project

(Armalia gives handout showing example)

Plan date out two years, instead of one

**(Required) Award dates important, as well as start date (important for Navy)**

**(Required) Submission date of draft document to regulators (important for MDE)**

**(Required) Completion for final document**

Narrative for Navy and EPA, highlight success stories, or else say there are none

For cleanup: start construction, end construction

Partnering deliverables do not need to be in quarterly report, but they can be

**ACTION:** Rob, send info for ECO class at WNY by 3/6/00.

### Work through lunch

- **Review of Proposed Plan**

Remove specific citation of Superfund law from first sentence and put in glossary.

**ACTION:** Shawn, find out correct contact name for address for George for front of Proposed Plan by 3/6/00.

Put P.E. after Rob's name

Dennis: length of Proposed Plan is appropriate for a no-action ROD

George tracks editing changes on his document during this discussion.

- **Janet: Partnering on deliverables**

Roles by entity

Everyone wants hardcopy of deliverable packet at end

Tier I Expectations of Tier II (Deliverable)

To identify broad-base guidance that affects numerous facilities, and make this information available as needed.

Coordination to establish priorities among facilities.

Assistance/support in resolving professional judgement disagreements.

Resolving interagency policy conflicts.

Clear direction regarding partnering deliverables.

Tier II will support Tier I consensus decisions provided those decisions comply with individual agency requirements.

Expectations Tier II Link at Tier I Meetings (Deliverable)

Tier II representative aware of info or have expertise that would facilitate Tier I team – would share with team.

Tier II rotates the links at the meetings as much as possible.

Tier II follows our ground rules

- **Go over Parking Lot:**

~~Reservation for Baltimore june meeting OMNI HOTEL.~~

We're going to stay at the OMNI

~~Site 47 status~~

Move to next meeting's agenda

~~Quarterly report - June~~

Move to next meeting's agenda

Team reviewing actions:

**ACTION:** Dennis, see about having lunch delivered on one day of the next meeting by 3/10/00.

**ACTION:** All Core Team, provide comments on Site 57 RI to George by 3/28/00.

**ACTION:** All Core Team, provide comments on Sites 12, 41, and 42 FS to George by 3/28/00.

**ACTION:** George, review proposed plan and forward to Shawn by 3/17/00.

**ACTION:** Anne, regenerate ground rules on poster by 3/28/00.

**ACTION:** Ed, edit February 2000 minutes and email to Anne by 3/3/00.

**ACTION:** Anne, post revised January 2000 minutes and new February 2000 minutes and email to core team by 3/10/00.

- **Team Reviews agenda for March meeting on 3/29/00-3/30/00:** assigning goals, outcomes, and time period

*All, Wisp Presentation review and dry run*

*Outcome: finalize presentation*

*Time: 1.5 hours min*

*Anne, Round the world presentation (lunch presentation)*

*Outcome: learn about Anne's trip around the world*

*Time: lunch time*

*George, Update on Site 42 eco info / re-sampling work plan*

*Outcome: generate comments for Site 42 eco; update on Sites 12 and 41*

*Time: 2 hours*

*Rob, Finalize Quarterly Report format*

*Outcome: finalize Quarterly Report format*

*Time: 15 minutes*

*Anne, Outline Work Plan for Sites 15, 16, 53, 49*

*Outcome: obtain initial team input*

*Time: 1 hour 15 minutes*

*Anne, Site 47 Status*

*Outcome: share information with team*

*Time: 45 minutes*

*George, Site 57 comment review*

*Outcome: finalize comments on Draft RI*

*Time: 45 minutes*

*Janet, Partnering*

*Time: 2 hours total (1 hour per day)*

- **Future meetings:**

<b>Date of meeting</b>	29-30 March	18-19 April	11 May (Wisp)	28-29 June	26-27 July
<b>Location</b>	Philadelphia	Indian Head	Wisp	Baltimore	TBA
<b>Host</b>	<i>Dennis</i>	<i>Shawn</i>	<i>Tier II</i>	<i>CH2M HILL</i>	<i>Rob/ CH2M HILL</i>
<b>Chair</b>	<i>Dennis</i>	<i>Shawn</i>	<i>Curtis</i>	<i>Curtis</i>	<i>Rob</i>
<b>Scribe</b>	<i>Anne</i>	<i>George</i>	<i>Heidi</i>	<i>Rob</i>	<i>Curtis</i>
<b>Time Keeper</b>	<i>Heidi</i>	<i>Curtis</i>	<i>George</i>	<i>Anne</i>	<i>Dennis</i>

- **Team plans conference call before next meeting:**

*Thursday, 3/16/00 at 10:00 a.m. – set up by Dennis*

### Actions Items Completed Since Last Meeting

Goal Number	Goal	Status of Goal	Action Number	Action	Person Responsible for Action	Date Action Created	Status of Action	Date Action Must Be Completed
3	Finalize Remedial Investigation Report for Site 47 by 07/17/00:  (a) Complete Draft Final of the Remedial Investigation by 05/08/00	In progress	34	Turn in comments to Bob Root on "Methods for Preparing the Human Health ..."	Dennis Orenshaw	12/01/99	Completed on 2/24/00	Completed
9	Complete Partnering Deliverables by 04/30/00	In progress	37	Create deliverables in final form: Entrance and Exit Process, Model Agenda	Ed Corack	01/19/00	Completed on 2/29/00	Completed
9	Complete Partnering Deliverables by 04/30/00	In progress	38	Email all created deliverables to Ed Corack at <a href="mailto:ecorack@ch2m.com">ecorack@ch2m.com</a>	Core team	01/19/00	Completed on 2/29/00	Completed
1	Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:  (a) Finalize Feasibility Study by 04/19/00  (b) Finalize Proposed Plan by 09/13/00	In progress	40	Talk to Jeff Bossart about wetland creation, if some of Site 12 wetland is destroyed	Shawn Jorgensen	01/19/00	completed on 2/29/00	OBE
1	Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:  (a) Finalize Feasibility Study by 04/19/00  (b) Finalize Proposed Plan by 09/13/00	In progress	41	Inform Shawn Jorgensen on size of impacted wetland area	George Latulippe	01/19/00	completed on 2/29/00	Completed
1	Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:  (a) Finalize Feasibility Study by 04/19/00  (b) Finalize Proposed Plan by 09/13/00	In progress	42	Find out about redirecting steam pipe at Site 42	Heidi McArthur	01/19/00	completed on 2/29/00	Completed

Goal Number	Goal	Status of Goal	Action Number	Action	Person Responsible for Action	Date Action Created	Status of Action	Date Action Must Be Completed
9	Complete Partnering Deliverables by 04/30/00	In progress	43	Rewrite Roles and Responsibilities and email to team	All Core Team	01/20/00	Completed on 2/29/00	Completed
1	Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:  (a) Finalize Feasibility Study by 04/19/00  (b) Finalize Proposed Plan by 09/13/00	In progress	44	Revise Proposed Plan to make it easier to read	George Latulippe	01/20/00	Completed on 2/29/00	Completed
1	Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:  (a) Finalize Feasibility Study by 04/19/00  (b) Finalize Proposed Plan by 09/13/00	In progress	45	Check with Office of Regional Council (ORC) and EPA staff on acceptability of brief proposed plan format	Dennis Orenshaw	01/20/00	Completed on 2/29/00	Completed
1	Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:  (a) Finalize Feasibility Study by 04/19/00  (b) Finalize Proposed Plan by 09/13/00	In progress	46	Get in touch with Fred to review data; also Greg Tracy; Look at data with respect to 10-day testing; does lab freeze samples?	Kent Cabbage	01/20/00	Completed on 2/29/00	Completed
1	Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:  (a) Finalize Feasibility Study by 04/19/00  (b) Finalize Proposed Plan by 09/13/00	In progress	47	Check data on day 10 of 28 day study (to see if ammonia build-up caused the mortality). If no data, then take more samples.	George Latulippe	01/20/00	Completed on 2/29/00	Completed
1	Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:  (a) Finalize Feasibility Study by 04/19/00  (b) Finalize Proposed Plan by 09/13/00	In progress	48	Contact lab to see if they freeze samples.	George Latulippe	01/20/00	Completed on 2/29/00	Completed

Goal Number	Goal	Status of Goal	Action Number	Action	Person Responsible for Action	Date Action Created	Status of Action	Date Action Must Be Completed
1	<b>Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:</b> (a) Finalize Feasibility Study by 04/19/00 (b) Finalize Proposed Plan by 09/13/00	In progress	49	Talk to Fred to get more consolidated comments to pass on to us about site 42 discussion	Simeon Hahn	01/20/00	Completed on 2/29/00	OBE
9	<b>Complete Partnering Deliverables by 04/30/00</b>	In progress	51	Prepare Quarterly Status Report "Q1 2000" and email to core team	Rob Sadorra	01/20/00	Completed on 2/29/00	Completed
To be defined	To be defined	To be defined	52	Post revised schedule on web page	Shawn Jorgensen	01/20/00	Completed on 2/29/00	Completed
To be defined	To be defined	To be defined	53	Bring info on Wisp topic (pipe lining) to next meeting	Rob Sadorra	01/20/00	Completed on 2/29/00	Completed
To be defined	To be defined	To be defined	53	Bring info on Wisp topic (pipe lining) to next meeting	Shawn Jorgensen	01/20/00	Completed on 2/29/00	Completed

### New Actions Items Created During This Meeting

Goal Number	Goal	Status of Goal	Action Number	Action	Person Responsible for Action	Date Action Created	Status of Action	Date Action Must Be Completed
11	Wisp Presentation	In progress	54	Find an "after" photo of relined pipe	Rob Sadorra	02/29/00	In progress	03/10/00
11	Wisp Presentation	In progress	55	Send Dennis vendor info on pipe re-lining	Rob Sadorra	02/29/00	In progress	03/10/00
11	Wisp Presentation	In progress	56	Put together slides for presentation (info and photo) and email them to the team	Rob Sadorra	02/29/00	In progress	03/10/00
11	Wisp Presentation	In progress	57	Create Slide 14 for Wisp presentation, especially subtitles for #2	Rob Sadorra	02/29/00	In progress	03/10/00
1	Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:  (a) Finalize Feasibility Study by 04/19/00  (b) Finalize Proposed Plan by 09/13/00	In progress	58	Make work plan with approach for sampling, describing the speciation study, and describing the toxicity testing for Site 42	George Latulippe	02/29/00	In progress	03/17/00
1	Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:  (a) Finalize Feasibility Study by 04/19/00  (b) Finalize Proposed Plan by 09/13/00	In progress	59	Make phone calls to see if the silver speciation tests are possible	George Latulippe	02/29/00	In progress	03/17/00
1	Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:  (a) Finalize Feasibility Study by 04/19/00  (b) Finalize Proposed Plan by 09/13/00	In progress	59	Make phone calls to see if the silver speciation tests are possible	Kent Cabbage	02/29/00	In progress	03/17/00

Goal Number	Goal	Status of Goal	Action Number	Action	Person Responsible for Action	Date Action Created	Status of Action	Date Action Must Be Completed
1	<b>Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:</b> (a) Finalize Feasibility Study by 04/19/00 (b) Finalize Proposed Plan by 09/13/00	In progress	60	Check on future flow in swale at Site 42	Shawn Jorgensen	02/29/00	In progress	03/13/00
1	<b>Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:</b> (a) Finalize Feasibility Study by 04/19/00 (b) Finalize Proposed Plan by 09/13/00	In progress	60	Check on future flow in swale at Site 42	Heidi McArthur	02/29/00	In progress	03/13/00
1	<b>Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:</b> (a) Finalize Feasibility Study by 04/19/00 (b) Finalize Proposed Plan by 09/13/00	In progress	61	Find out from MDE (John) about suitability of grasses/rocks for biotic layer at Site 12	Curtis DeTore	02/29/00	In progress	03/10/00
1	<b>Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:</b> (a) Finalize Feasibility Study by 04/19/00 (b) Finalize Proposed Plan by 09/13/00	In progress	62	Find out from BTAG about suitability of grasses/rocks for biotic layer at Site 12	Dennis Orenshaw	02/29/00	In progress	03/10/00
1	<b>Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:</b> (a) Finalize Feasibility Study by 04/19/00 (b) Finalize Proposed Plan by 09/13/00	In progress	63	Check with IH about not mowing grass on Site 12 landfill cover and tell George	Shawn Jorgensen	02/29/00	In progress	03/10/00

Goal Number	Goal	Status of Goal	Action Number	Action	Person Responsible for Action	Date Action Created	Status of Action	Date Action Must Be Completed
1	<b>Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:</b> (a) Finalize Feasibility Study by 04/19/00 (b) Finalize Proposed Plan by 09/13/00	In progress	63	Check with IH about not mowing grass on Site 12 landfill cover and tell George	Heidi McArthur	02/29/00	In progress	03/10/00
1	<b>Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:</b> (a) Finalize Feasibility Study by 04/19/00 (b) Finalize Proposed Plan by 09/13/00	In progress	64	Check with BTAG on covering for shore line (armor/gabion/vegetation) and tell George	Dennis Orenshaw	03/01/00	In progress	03/10/00
1	<b>Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:</b> (a) Finalize Feasibility Study by 04/19/00 (b) Finalize Proposed Plan by 09/13/00	In progress	65	Check on cost difference between rock layer versus vegetative mat on Site 12	George Latulippe	03/01/00	In progress	03/29/00
1	<b>Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:</b> (a) Finalize Feasibility Study by 04/19/00 (b) Finalize Proposed Plan by 09/13/00	In progress	66	Check on need to have barrier/boots on Site 42 cover beneath asphalt	Curtis DeTore	03/01/00	In progress	03/29/00
1	<b>Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:</b> (a) Finalize Feasibility Study by 04/19/00 (b) Finalize Proposed Plan by 09/13/00	In progress	67	Check out documentation, daily construction logs or as-built drawings covering steam pipe footers for presence of waste in excavations.	Heidi McArthur	03/01/00	In progress	03/29/00

Goal Number	Goal	Status of Goal	Action Number	Action	Person Responsible for Action	Date Action Created	Status of Action	Date Action Must Be Completed
1	<b>Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:</b> (a) Finalize Feasibility Study by 04/19/00 (b) Finalize Proposed Plan by 09/13/00	In progress	68	Site 42 suitability of Alternatives 2 and 3, screen alternatives for possible stops, and check on variance and tell George	Dennis Orenshaw	03/01/00	In progress	03/10/00
1	<b>Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:</b> (a) Finalize Feasibility Study by 04/19/00 (b) Finalize Proposed Plan by 09/13/00	In progress	68	Site 42 suitability of Alternatives 2 and 3, screen alternatives for possible stops, and check on variance and tell George	Curtis DeTore	03/01/00	In progress	03/10/00
1	<b>Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:</b> (a) Finalize Feasibility Study by 04/19/00 (b) Finalize Proposed Plan by 09/13/00	In progress	69	Check with Lou (Code 09) on use of railroad at Site 41 (removal of rail versus replace rail)	Shawn Jorgensen	03/01/00	In progress	03/29/00
1	<b>Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:</b> (a) Finalize Feasibility Study by 04/19/00 (b) Finalize Proposed Plan by 09/13/00	In progress	69	Check with Lou (Code 09) on use of railroad at Site 41 (removal of rail versus replace rail)	Heidi McArthur	03/01/00	In progress	03/29/00
1	<b>Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:</b> (a) Finalize Feasibility Study by 04/19/00 (b) Finalize Proposed Plan by 09/13/00	In progress	70	Check dimensions of back wall at Site 41, ramp use and/or need and tell George	Shawn Jorgensen	03/01/00	In progress	03/29/00

Goal Number	Goal	Status of Goal	Action Number	Action	Person Responsible for Action	Date Action Created	Status of Action	Date Action Must Be Completed
5	Finalize Remedial Investigation Report for Sites 11, 13, 17, 21, and 25 by 0417/02:  (a) Finalize Work Plan by 04/28/00  (b) Complete Draft Final Remedial Investigation report by 02/09/01	In progress	71	Check for eco tox screening level for nitrocellulose	Anne Estabrook	03/01/00	In progress	03/29/00
5	Finalize Remedial Investigation Report for Sites 11, 13, 17, 21, and 25 by 0417/02:  (a) Finalize Work Plan by 04/28/00  (b) Complete Draft Final Remedial Investigation report by 02/09/01	In progress	72	Find letter from Army Corps of Engineers about removing fill placed at Site 11 and give info to Anne	Shawn Jorgensen	03/01/00	In progress	03/10/00
5	Finalize Remedial Investigation Report for Sites 11, 13, 17, 21, and 25 by 0417/02:  (a) Finalize Work Plan by 04/28/00  (b) Complete Draft Final Remedial Investigation report by 02/09/01	In progress	73	Give results on yellow substance on drums (lecithin) to Anne	Heidi McArthur	03/01/00	In progress	03/10/00
5	Finalize Remedial Investigation Report for Sites 11, 13, 17, 21, and 25 by 0417/02:  (a) Finalize Work Plan by 04/28/00  (b) Complete Draft Final Remedial Investigation report by 02/09/01	In progress	74	Find out from Jeff at IH about how much buildup at Site 21 over last 3 years and give info to Anne	Heidi McArthur	03/01/00	In progress	03/10/00
5	Finalize Remedial Investigation Report for Sites 11, 13, 17, 21, and 25 by 0417/02:  (a) Finalize Work Plan by 04/28/00  (b) Complete Draft Final Remedial	In progress	75	Email pictures of Site 21 to Anne	Heidi McArthur	03/01/00	In progress	03/10/00

Goal Number	Goal	Status of Goal	Action Number	Action	Person Responsible for Action	Date Action Created	Status of Action	Date Action Must Be Completed
	Investigation report by 02/09/01							
5	<b>Finalize Remedial Investigation Report for Sites 11, 13, 17, 21, and 25 by 0417/02:</b>  (a) Finalize Work Plan by 04/28/00  (b) Complete Draft Final Remedial Investigation report by 02/09/01	In progress	76	Check EBS on nitroglycerin annealing oven in Building 579 and give info to Anne	Heidi McArthur	03/01/00	In progress	03/10/00
5	<b>Finalize Remedial Investigation Report for Sites 11, 13, 17, 21, and 25 by 0417/02:</b>  (a) Finalize Work Plan by 04/28/00  (b) Complete Draft Final Remedial Investigation report by 02/09/01	In progress	77	Check on historical processes at Building 588 and give info to Anne	Heidi McArthur	03/01/00	In progress	03/10/00
To be defined	To be defined	To be defined	78	Send copy of January 2000 minutes to Armalia	Rob Sadorra	03/01/00	In progress	03/06/00
To be defined	To be defined	To be defined	79	Send info for ECO class at WNY to team	Rob Sadorra	03/01/00	In progress	03/06/00
1	<b>Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:</b>  (a) Finalize Feasibility Study by 04/19/00  (b) Finalize Proposed Plan by 09/13/00	In progress	80	Find out correct contact person for George for front of Proposed Plan	Shawn Jorgensen	03/01/00	In progress	03/06/00
To be defined	To be defined	To be defined	81	Check into having lunch delivered on one day of the next meeting	Dennis Orenshaw	03/01/00	In progress	03/10/00

Goal Number	Goal	Status of Goal	Action Number	Action	Person Responsible for Action	Date Action Created	Status of Action	Date Action Must Be Completed
2	<p><b>Finalize Treatability Report for Site 57 by 03/13/01:</b></p> <p>(a) Finalize Remedial Investigation by 03/07/00</p> <p>(b) Finalize Treatability Study Work Plan by 07/04/00</p>	In progress	82	Provide comments on Site 57 RI to George	All Core Team	03/01/00	In progress	03/28/00
1	<p><b>Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:</b></p> <p>(a) Finalize Feasibility Study by 04/19/00</p> <p>(b) Finalize Proposed Plan by 09/13/00</p>	In progress	83	Provide comments on Sites 12, 41, 42 FS to George	All Core Team	03/01/00	In progress	03/28/00
1	<p><b>Sign Record of Decision for Sites 12, 41, 42, and 44 by 04/04/01:</b></p> <p>(a) Finalize Feasibility Study by 04/19/00</p> <p>(b) Finalize Proposed Plan by 09/13/00</p>	In progress	84	Review proposed plan and forward to Shawn	George Latulippe	03/01/00	In progress	03/17/00
9	<b>Complete Partnering Deliverables by 04/30/00</b>	In progress	85	Regenerate ground rules on poster	Anne Estabrook	03/01/00	In progress	03/28/00
9	<b>Complete Partnering Deliverables by 04/30/00</b>	In progress	86	Post revised January 2000 minutes and new February 2000 minutes and email to core team	Anne Estabrook	03/01/00	In progress	03/10/00
9	<b>Complete Partnering Deliverables by 04/30/00</b>	In progress	87	Edit February 2000 minutes and email to Anne	Ed Corack	03/01/00	In progress	03/03/00