

SPRING VALLEY

**Partnering Meeting
Fort Meade, EPA Science Building**

MEETING MINUTES

PURPOSE OF MEETING: Partnering Meeting

LOCATION: Fort Meade, EPA Science Building

DATE: March 28, 2001

TIME: 9:00 a.m. – 4:30 p.m.

1. UPDATE

1.1 OU-3

Arsenic Removal – all of the grids in 4801 Glenbrook and 4825 Glenbrook with the exception of Grid 0,100 have been excavated to a depth of two feet. Grid 0,100 will be excavated to the two-foot depth once the test pit operations at 4825 have been completed. The following grids required additional excavation due to the high confirmation sample results after the initial two feet were removed:

- Grid 120,100
- Grid 120,180
- Grid 80,160
- Grid 60,160
- Grid 60,170
- Grid 40,140
- Grid 20,120
- Grid 20,140
- Grid 0,0
- Grid 0,100
- Grid 0,120
- Grid (-20,120)

- Grid (-80,-20)

Backfilling operations – 4825 Glenbrook's front yard and Grids (-20,80 & -40,80) have been backfilled to within 6-inches of final grade. Site restoration (top soil & grass seed) has started in the front yard of 4825, which is tentatively to be completed by this Friday (3/30/01)

Back filling operation for 4801 Glenbrook started on February 27, 2001 and all of the grids on Row 60 south will be backfilled and cut to grade by March 30, 2001. CENAB is scheduled to have a surveyor arrive on site April 2nd to survey in the completed grids. This information will be turned over to TLC who is schedule to start the 1st week in April. The remaining grids will be turned over to TLC as the test pit operation opens up the area for TLC to use.

Stream Removal – preparation for the upper stream started last Monday (3/26/01), which consisted of ordering roll-offs, roll-off truck, power washing equipment, and silt fence. Additionally, sumps have been constructed to divert the stream run-off around the upper stream to the lower stream just pass the culverts. Field operations will start on April 2nd, which will consist of washing the culverts and then removing the sediment from the bottom of the stream. The sediment will be placed into roll-offs, stabilized (if required), and then transported to the Federal Property. Once the sediment has been removed from the stream, the SDA will be backfilled along with the upper stream.

The lower stream will start immediately after the upper stream sediment removal has been completed, which is tentatively scheduled to start on April 9, 2001. Once again the sediment will be placed into roll-offs, stabilized (if required), and then transported to the Federal Property.

1.2 Test Pit Operations

- Mobilization for AWS and HFA commenced on March 26, 2001. AWS/HFA will establish the PDS and any site preparation as necessary to have the site ready for ECBC and TEU.
- ECBC and TEU will be mobilizing to the site April 2. The CAFS will be placed on the patio on April 2nd with the tent being smoke tested on April 3rd or 4th depending on when the electricity will be hooked up.
- Training will commence on April 9th and 10th with a Huntsville Survey being conducted April 11th & 12th.
- Intrusive activities are schedule to start O/A April 16th if DDESB does not require a pre-operational survey.
- The Final Addendum 10 was emailed to everyone on March 22, 2001.

1.3 4835 Risk Assessment

The draft Risk Assessment for 4835 risk assessment was emailed to CENAB (Major Plaisted, Capt Peloquin, Lan Reeser, Bob Hill, and Drew Rak) for their review and comments. Parsons

will incorporate CENAB comments and this draft final will be sent to DC Health, EPA and AU by 9 April for their review.

1.4 OU-4 Results Review

MAJ Plaisted reviewed the results. A map of the results of the Rockwood properties grid sampling is attached. Risk assessments will be performed to determine potential cleanup areas followed by feasibility studies. The use of ferns for phyto-remediation will be investigated. Ferns have been successfully used at Picatinny Arsenal for arsenic removal. Ray Livermore will continue to follow up with Dr Larson of the Waterways Experiment Station.

Focused on the results at 4710 Woodway. The home owner has requested Mr. Stauber show specific areas of concern.

1.5 SDA

The excavation at the SDA is complete and will be backfilled once the upper stream has been excavated. The soil results for the SDA confirmation samples are as follows:

	Results	Construction Worker	Residential
Mercury	0.204 mg/kg	266 mg/kg	23 mg/kg
Arsenic	2.89 mg/kg	41 mg/kg	Background
Lead	20.77 mg/kg	2000 mg/kg	400 mg/kg

The Baker tanks will be drained and cleaned this week, AWS will have the tanks removed from the AU property this weekend.

During the excavation, AWS uncovered a 15" terra cotta pipe that is the source of the stream. Parsons ES suggested the source might still be a spring (piped from elsewhere) based on the consistency of the flow. Work continues to identify the source of the water, possibly by using a smoke test.

1.6 Stream Clean-up

Parsons/AWS will start the stream sediment removal next week.

1.7 Geophysical Surveys

Huntsville is developing a contract to geophysically survey properties at 4835, 4845 and 4710 Woodway Lane and AU. There was discussion of the scope of the geophysical survey. CENAB/USAESCH stated the target is pits/trenches. Rich Albright wants the target to be single shells. The geophysics will be able to identify single items but discriminating those from construction debris or other ground clutter will be difficult. The question is what will be buried in the prove-out plot. This will be the subject of a separate meeting. CPT Peloquin is also investigating the use of dogs to detect explosives.

2. SEDGWICK TRENCH SAMPLING

CPT Peloquin presented the work plan for the Sedgwick Trench area investigation. Rich Albright stated he felt they should grid the properties rather than do the quadrant sampling. It was decided to stay with the quadrant sampling approach. The residents also want subsurface borings. He also believes 5058 should be included in the properties to be sampled. There appears to be an anomaly in the backyard of 5058.

Copies of the anomaly review board for the Sedgwick Trench area were handed out. Both 5058 and 5054 need additional information. Parsons will collect this additional information accompanied by Chris Evans and Rich Albright. This will consist of re-acquiring the anomaly, removing the sod, and attempting to determine the source of the anomaly. This is the same approach used during the initial geophysical survey. Rich Albright stated there is an anomaly on the driveway of 5054 and it is close to the Sedgwick Trench

Rich Albright raised a concern on 5166 Tilden regarding a reported multiple myeloma case. This will be sampled early in the Central Testing Area phase rather than during the Sedgwick Trench area.

If the quadrant samples do not lead to grid samples, a final decision on gridding will include input from the DC Mayor's Scientific Advisory Panel.

Parsons will query owners on areas they think represent stressed vegetation. Parsons will walk the yards with the owners and flag specific areas. 5 of the 7 ROEs have been obtained. Parsons will be ready to sample next week.

Rich Albright requested Lewisite and Mustard be part of the AUES list of compounds for the trench bottom samples. The ABPs will be analyzed. Parsons will review whether ECBC actually analyzes for Lewisite or just the ABPs, and reports them as Lewisite. There was a discussion of sampling for soil pH. This will be analyzed for in the four borings in the trench at 2' intervals.

3. COMPOSITE SAMPLING METHOD

Ray Livermore discussed the issue of the composite sampling. Instead of 4 six part composites over the quadrants, the EPA User's Guide recommends 6 four part composites spread over the exposure area. Harry Harbold explained the User's Guide is a screening method. He recommended continued use of the current method of 4 six part composite samples.

For larger properties, rather than additional samples per quadrant, the property will be further subdivided into more quadrants and sampled at 6 samples per quadrant.

The 5123 Tilden property was sampled by Apex Environmental and these results were discussed. The results of interest were 18 ppm at 2'-3', 10 ppm at 3'-4' and 19 ppm at 4'-5'. CPT Peloquin

will review options for how to make use of data from private consultants, i.e., could the resident get a comfort letter from EPA or USACE based on those results.

4. CENTRAL TESTING AREA

The properties will be tested starting with those properties soon to be placed on the market. The RAB will also provide input on the sampling priorities.

5. LOW LEVEL EXPOSURE TO MUSTARD AGENT

Rich Albright presented a preliminary draft report on mustard agent as a potential source for blood and bone marrow damage. CPT Peloquin presented a review by CHPPM of the preliminary draft. CPT Peloquin stated the reports are preliminary and the issue should be addressed by the medical/toxicology community before the matter is presented to the public.

6. ARSINE GAS

Rich Albright presented his concerns on the formation of arsine from arsenic in the soil combined with low pH or zinc. CPT Peloquin will present this information to a chemist for additional interpretation.

7. EPIC REVIEW OF 52ND COURT AND POI 16 AREAS

Sedgwick Trench Area

Terry Slonecker presented the results of his analysis of stressed vegetation areas separated from ground scars and other disturbances. He discussed four burial areas that were not present in 1922, were there in 1928, but not present in 1940.

Stressed vegetation but no ground scar, not indicative of a ground scar. These will be sampled with the arsenic sampling. POI 15 shows up as a point of continued interest. However, no sampling was done at this location because it had 10' of cut from 1918 to 1981.

CPT Peloquin requested everyone review the list of properties to determine areas where additional sampling should occur and for what.

The group discussed how to investigate the ground scars that are potential burial pits. To date all burials have been associated with metallic objects which could be geophysically investigated. It appears the only method to determine if the ground scar is a pit for non-metallic material is to excavate with test pits. Chris Evans will provide a list of properties for potential burial pits (overlapping ground scars [not stressed vegetation) and additional investigation required (interview property owner, geophysics, etc.)

Ray Livermore will provide recommendations for what properties need to be sampled (ground scars on multiple years) what to sample for (based upon Mark Baker's historical record) and at

what depth (from latest cut/fill). Areas with a certain level of cut will not be sampled since whatever was there is gone. Persistent contaminants will be sampled since they could have come from other areas within Spring Valley.

8. ADDITIONAL ITEMS

8.1 SV Wide Sampling

MAJ Plaisted explained Parsons will provide a sampling plan soon. Residents have volunteered to have their properties sampled first. CENAB is already receiving rights of entry.

8.2 Restoration Advisory Board (RAB)

MAJ Plaisted explained there are many volunteers to participate in the RAB (39). A property owner selection committee was formed and they are working with CENAB to develop a RAB selection committee. RAB will be 10-14 community members, CPT Peloquin will be a co-chair, with members from AU, DC Health, EPA, local business representative, and possibly a member from the DC Scientific Advisory Panel. Total membership will be approximately 20 people. First meeting is projected for middle of May.

8.2.1 Community Meeting

Next community meeting will be May 1, 2001. The last meeting was well attended and the comments from attendees were favorable. COL Fiala will be the ranking military member. The CTA sampling plan and RAB members will be discussed.

8.3 CDC TCRA

Negotiation was conducted with Parsons and CENAB last Friday with a revised bid being sent to CENAB this Wednesday (3/28/01). The intrusive phase is schedule to start at the end of May once all of the students have left for the summer and all of the soil results have been received. Field operations are scheduled to last 25 workdays.

8.4 New CDC

Tom Bachovchin reported the preliminary results from the re-located CDC were clean for arsenic and agent break down products. These results will be validated soon. Bethany Bridgham said she is meeting with the parents of the CDC children tomorrow.

8.5 Hamilton Hall Trench

Rich Albright recommended geophysically investigating a trench near Hamilton Hall. Action on this recommendation was tabled pending further review.

8.6 POI 24 Pits Bottles

MAJ Plaisted asked about the ECBC results of the bottles removed from POI 24. Parsons will review.

8.7 Sediment Sampling Dalecarlia Reservoir

Rich Albright discussed the results of the core sampling from the sediment removal of Dalecarlia Reservoir. He stated a result of 10 ppm at a core depth of 134 feet. This is higher than the levels in the sediments at the intake. Rich Albright stated this is further rationale for ground water sampling. Rich Albright will provide locations of GW wells in the Spring Valley area.

8.8 Arsenical Smoke Candles

Rich Albright discovered information that arsenical smoke candles were used at Tolman field. This area will be sampled during the Central Testing Area.

8.9 POI 17

Rich Albright reported no final report was received by a homeowner. Chris Evans will investigate the report.

8.10 USGS Ground Penetrating Radar

USGS offered to do a demonstration of GPR at Spring Valley. Bob Selfridge is working with USGS.

8.11 Fisher Library Database

Mark Baker is looking for the Fisher Library Database that presents all of the testing data.

8.12 New Meetings

There will be meetings to discuss the environmental sampling and the geophysical investigation scope and objective.

9. ACTION ITEMS

Rich Albright will provide AU the transcript of the worker's report from 4835.

Chris Evans will provide a list of properties for potential burial pits (overlapping ground scars [not stressed vegetation] and additional investigation required (interview property owner, geophysics, etc.).

Regarding the Comprehensive Sampling Area and Central Testing Area investigations, Ray Livermore will provide recommendations for what properties need to be sampled (ground scars on multiple years), what to sample for (based upon Mark Baker's historical record), and at what depth (from latest cut/fill).

The question is what will be buried in the prove-out plot. This will be the subject of a separate meeting among Bob Selfridge, Rich Albright, Ken Shuster, and Chris Evans. CPT Peloquin is also investigating the use of dogs to detect explosives.

FINAL

Discussed sampling basements of houses for AUES specific contaminants using long term sampling. 4825 Glenbrook was suggested as a test case. Parsons will discuss this with ECBC and Ray Livermore.

Sherri Anderson-Hudgins will provide to Rich Albright copies of the video taping of the work at 4710 Woodway Lane.

Ray Livermore will continue to follow up with Dr Larson of the Waterways Experiment Station (re-phytoremediation).

CPT Peloquin will discuss similar risk assessments with the residents of 5123 Tilden.

Chris Evans will investigate the report for POI 17.

Parsons will incorporate CENAB comments to the draft risk assessment for 4835. This draft final will be sent to DC Health, EPA and AU by 9 April for their review.

10.NEXT MEETING

On April 18th, 10:00, will be the meeting to discuss the environmental sampling (CTA and expanded contaminant list) and the potential burial pits.

The geophysics walk over for 5054 and 5058 Sedgwick will be April 19. Kevin Brennan will coordinate this with the homeowners.

The next partnering meeting will be on May 3, 2001 at 10:00.