

TIEHH

- Dr. Anderson reported that the cow study had been completed and the thyroid hormone data was consistent with the blood plasma data presented during the last meeting. He indicated that testing had also been performed on five cuts of meat from the slaughtered cows (T-bone, sirloin, roast, round steak and liver) and no perchlorate was detected in the samples. He also noted that the thyroid hormone data collected from the five-year cows on the Holland property showed thyroid hormone levels that were depressed. TIEHH could not confirm if this hormone level was due to the natural aging process or was due to exposure to perchlorate.
- Dr. Anderson indicated that TIEHH had obtained access to additional cattle in Kansas that are exposed to much higher perchlorate concentrations (ppm range) and blood plasma has been collected from these cattle. No data are yet available from this testing.
- Dr. Anderson stated that TIEHH had finished the plant uptake experiments. Data indicate that perchlorate is present in tree leaves and washes out when the leaves fall from the trees.
- He indicated that additional studies are necessary to complete developmental assays on fish/frog studies in streams and will require full general chemistry characterization at various stream locations. It was agreed that BRA could collect samples and send to USACE lab for analyses. Dr. Anderson agreed to send Brian Condike a map or GPS coordinates of the proposed sampling locations so that BRA can perform the sampling.
- Mr. Condike asked if any work had been performed on the market basket survey. Dr. Anderson indicated that this survey has not been completed but TIEHH still plans to perform the study.

MWH

- Mr. Hartline indicated that MWH and BRA have completed all field work with the exception of algae sampling in the Lake Belton Delta Area, two additional ADCP studies planned for September and December, and the continuation of longitudinal stream sampling through October. There was not enough algae present in Lake Belton during the previous delta sampling so MWH and BRA will try and sample again next week, near the end of August.
- Mr. Hartline presented the results to date of the Longitudinal Stream Sampling, which included some storm samples. Mr. Condike noted that SC3 showed higher perchlorate concentrations downstream of TRM1. Further evaluation of the data will be performed by MWH before the next meeting. Mr. Condike also noted that limited sample data had been collected from station SC5. Mr. Hartline stated that stream height at this location is consistently low and has been below the sample collection tube during many events. He noted that MWH and BRA have readjusted the sample port several times to lower areas of the stream but the problems persist. Two options to collect samples at this location are 1) chip out a sump in the rock or 2) collect manual samples when a sample is not automatically collected by the monitoring station. It was agreed that sampling will continue on a bi-weekly basis and if the sampler does not collect a sample, then a manual sample will be collected by BRA.
- Mr. Condike also recommended that one additional comprehensive storm sampling event should be performed at all sampling stations.
- Mr. Hartline presented data regarding the Delta Area Studies performed in Lake Waco and Lake Belton. He indicated that all surface water and sediment pore water samples in both lakes were below detectable levels for perchlorate.
- Mr. Hartline presented graphs showing the maximum, minimum and mean perchlorate concentrations as water moves downstream from NWIRP to Lake Waco and Lake Belton. The graphs showed that perchlorate concentrations decrease as you move away from the NWIRP site and that all samples collected in the Middle Bosque and Leon rivers have all been below detectable levels since the start of sampling activities.

BRA

- Mr. Headley indicated that sampling activities were continuing and he was not aware of any major problems.

Other Business

Mr. Hartline asked Mr. Headley about scheduling the TIAER high flow study. He also mentioned that the BRA field staff had indicated that they might be able to perform this work. Mr. Headley stated that he would check to see if this work had been scheduled.

Mr. Ebersold mentioned that as part of the MWH contract, provisions had been made to perform some manual sampling during the project. He suggested that USACE might want to consider sampling surface water during the remaining two ADCP studies to obtain more information regarding concentrations in the lake. Mr. Condikey agreed and authorized MWH to perform the sampling during the future ADCP studies. Samples will be collected at each transect above and below the thermocline and within any preferential flow pathways that might be identified during each transect survey.

Mr. Hartline asked if the monitoring wells would be left in place upon completion of the project or would USACE like them removed. Mr. Condikey indicated that they should be removed and asked MWH to prepare an amendment for this activity.

Mr. Hartline indicated that the disposal water collected during the Delta Area studies had initially showed high perchlorate readings even though all surface water samples and final rinse water were below detectable levels. Working with the USACE lab, MWH determined that thealconox detergent was interfering with the perchlorate peak and an actual perchlorate concentration cannot be determined for the water to allow proper waste profiling. Mr. Condikey indicated that another sample should be sent to a separate lab that may use a different perchlorate method to determine the actual perchlorate concentration. MWH will identify a lab and BRA will send the sample upon MWH direction.

Next Meeting.

The next team meeting was not scheduled during the meeting.

Adjourn