

MEMORANDUM TO FILE

TO: KMCC File

FROM: Brian Rakvica

DATE: January 20, 2004

CC: Todd Croft, Jennifer Carr, Jeff Johnson
Jon Palm, Tamara Pelham

RE: KMCC Conference Call

1. Remedial System Update
 - a. Final inspections being completed; expect completion by the end of January.
 - b. Currently, the start up is about 2 weeks behind schedule. They hope to catch up based on microbial growth.
 - c. Currently, the system is working in batch mode.
 - d. System was inoculated last Friday with denitrifiers, perchlorate destroyers and in-situ microbes present in the natural groundwater. Additional ethanol will be added. The inoculants contains commercial denitrifier; dense sludge from the NJ laboratory; carbon loaded with sludge; and drums of carbon from a denitrifying operation.
 - e. This batch has destroyed nitrate and chlorate and has begun to destroy perchlorate.
 - f. It is planned to add batch 2 on Thursday and move batch 1 to reactors 5-8.
 - g. Eventually, they will move to continuous operation. The continuous operation will be partially monitored based on ethanol consumption and will be confirmed with perchlorate concentrations. It is hoped that a low flow rate can be achieved by mid-February.
 - h. Once fully operation the residence time will be over six hours.
2. Discussed Permitting.
 - a. Public notice has not been issued yet.
 - b. Lingering issues are currently being discussed at higher levels of NDEP and USEPA.
 - c. Noted that pilot test was completed in NJ with water from the site.
 - d. Noted that the existing FBR design is based on the existing permit limitations and 99% destruction. Also hope for ND at a later time.
 - e. KMCC feels that USEPA is being unreasonable and is potentially asking for something that may be technically unfeasible. No other system exists with influent concentration similar to KMCC. The Aerojet facility has influent of 1.7 ppm (versus ~350 ppm at KMCC).
 - f. NDEP is currently thinking that there will be a start up period; after the start up period the discharge limit will be 99% removal for the next 90 days; after that the discharge limit will be 80 ppb.

- g. Noted that 80 ppb is higher quality effluent than the IX system is currently producing.
 - h. NDEP noted that the Nevada lab certification person would be interested in providing whatever assistance he can with regards to development of lower detection limits in the high salinity environment.
- 3. Discussed Information Requests and Tours.
 - a. 1/26 – MWD would like to tour. KMCC indicated that this would not be a good day. February would be better.
 - b. 2/9/04 – Todd will attend the Urban Water Research Center and give a presentation similar to the NAS presentation.
 - c. 2/10 or 2/12 - USEPA tour.
- 4. Next Meeting: 1/27/04 at 3:00 PM. Susan to provide call in information.