

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 04-100A Meeting Date: <u>5/12/05</u> Report No: <u>10</u> Report Date: <u>5/17/05</u>
Project Name:	CLOSURE CONSTRUCTION - PHASE III NGS-S COMPARTMENT LINED RESERVOIR	Project Address: 13300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee County
ATTENDEES: Ardaman: John Cameron, Rob Werner, Tony Deatherage Receiver: _____ FDEP: _____ CDM: Steve Solters, Dean Carter, Michael Cruz Moretrench: Steve Voytko, Mike Panny, Harley Frady Comanco: Brad DeNeve		

COPY TO: Louis J. Timchak - Receiver
 FDEP: Phil Coram, Sam Zamani, John Coates
 Ardaman: Nadim Fuleihan, Rob Werner, Tom Leto, John Cameron, Tony Deatherage
 CDM: Steve Solters, Dean Carter, Michael Edgar, Michael Cruz
 Moretrench: Al Shuman, Steve Voytko, Mike Panny
 Comanco: Tom Topp, Joe Benz, Dragan Milosavljevic, Brad DeNeve

Next Meeting is Scheduled for Wednesday, May 18, 2005
Construction/Engineering Meeting at 8:00 am
Site Tour at 9:00 am followed by CDM Operations Meeting

1.0 REVIEW MINUTES OF PREVIOUS MEETING

No corrections were noted.

2.0 SAFETY

CDM reported that the corroded steel grate at Outfall 003 has been repaired.

3.0 SUMMARY OF WORK PERFORMED

Moretrench:

- Continued hauling gypsum fill from the NGS-S pond bottom to NGS-S north cap; gypsum fill hauled as of 5/11/05 was reported (by truck load count estimate) as 240,190 cy (compacted-in-place).
- Completed finish grading Area 3. Started finish grading Area 4 on 5/5/05.
- Started installation and sand bedding for the 18-inch HDPE outlet pipe on 5/11/05.
- Continued maintenance of dewatering ditches and dewatering pump.
- Water usage for compaction this report - approximately 380,000 gallons
- Equipment: 3 D-8 dozers (1 w/ripper), 4 D-6 dozers, 5 compactors, 2 backhoes, 1 long-stick backhoe, 3 water wagons, 6 dump trucks, 1 motor grader, 1 hydraulic 6" pump - 30 personnel.

Comanco:

- Completed liner deployment in Area 2 on 5/10/05, and started Area 3 - 283,025 sq ft (6.5 acres) was installed this reporting period, 1,012,559 sq ft (23.2 acres) total as of 5/11/05. Completed detail work in Area 1.
- Equipment: 1 QC trailer, 6 generators, 3 wedges, 3 extruders, 1 backhoe, 1 dozer, 1 loader, 1 gator - 20 personnel

4.0 PROJECTED WORK FOR NEXT WEEK

Moretrench:

- Continue rough grading and compacting Areas 4 and 5.
- Continue finish grading Area 4.

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- Continue sand bedding for the 18-inch outlet pipe through the south dike.
- Start work at the concrete inlet structure.
- Maintain dewatering ditches and pump(s).

Comanco:

- Continue liner deployment in Area 3, and detail work in Area 2.

5.0 SURVEY NOTES

- Regarding the 4/25/05 take-up survey, Pickett reviewed and corrected the Area-by Area in-place fill volumes. The sum of the revised fill volumes is consistent with their original total site model estimate (i.e., about 174,000 cubic yards in place). Based on independent calculations by Ardaman using Pickett's take-up survey data, the revised total is reasonable.
- The Area 3 east dike and pond bottom as-built survey was provided to Ardaman for checking on 5/5/05. The Area 3 west dike and pond bottom were surveyed on 5/6/05, and corrective work for all of Area 3 was completed, re-surveyed and re-checked on 5/10/05.

6.0 PROJECT SCHEDULE

- No workdays were lost to weather.
- Finish grading by Moretrench and liner deployment by Comanco continued essentially on schedule. It was noted that all of Area 3 subgrade was accepted on 5/10/05 for liner deployment.
- The schedule was updated by Ardaman on 5/11/05 (draft 9) to reflect work progress through 5/10/05, and was reviewed at the meeting. Forecast operational and completion dates were revised to 7/28/05 and 8/26/05, 2 days later than last forecast (draft 8 on 4/20/05). The contract completion date is 8/30/05. The schedule will be updated again prior to next meeting to incorporate comments by CDM and its subcontractors.

7.0 SHOP DRAWINGS and SUBMITTALS

All shop drawings and submittals should be submitted to Rob Werner (Ardaman) for approval, with transmittals only copied to John Cameron (Ardaman) and Steve Solters (CDM).

- Some liner factory certifications for liner rolls have been received Ardaman. A listing of additional certification requirements were emailed by Ardaman on 4/22/05 to CDM and Comanco. Comanco indicated that the additional certifications have been mailed.

8.0 TECHNICAL ITEMS/CLARIFICATIONS AND QUALITY ASSURANCE

NOTE: All drawings and specifications for the NGS-S Reservoir are Revision 0 - Issued for Construction, dated 3/9/05, except the following revised and new drawings were distributed at the meeting: C-2, revision 1, 4/28/05; L-1, revision 1, 4/28/05; L-2, revision 0, 5/2/05, and L-3, revision 0, 5/2/05. CD's of site plans and sections for OGS slopes, caps and the relief ditch, were provided on 4/7/05 to CDM and Moretrench.

Quality Control Activities

- Ardaman has 6 technicians on site.
- In-place gypsum density tests: 257 tests passing, none pending.
- Liner roll conformance testing: tables of testing status (revision 8, dated 5/11/05) were distributed at the meeting; 106 rolls of 2-sided textured, 38 rolls of 1-sided textured (complete), and 116 rolls of smooth liner have been conditionally approved for deployment. Overall, conformance testing is approximately 70% complete.
- Liner seam destructive testing (DT's): 106 marked, 88 passing, 5 pending. A summary of testing status (revision 4, dated 5/11/05) was distributed at the meeting.
- Liner ballast and anchor trench gypsum compaction testing: 46 passing, 2 pending.

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Miscellaneous

- Rainfall (inches) as reported by the Program Manager for this reporting period: 0.27 (May total 0.32).
- A sketch was distributed by Ardaman at the meeting to reflect proposed modifications to the 18" HDPE outlet pipe location along the Buckeye Road fence line to its termination at the SCP-south cooling pond.
- Ardaman reported that the soil materials mixed with gypsum encountered during rough grading along an isolated area on the west side of Area 5 appears to contain soil from the original starter dike (for the east wall of the OGS). Ardaman indicated that soil materials, where encountered at finish grade, should be undercut by 1 foot and replaced with clean gypsum. Undercut materials, if sufficiently mixed with gypsum, as determined by the Engineer, may be stockpiled near the existing cofferdam for use during backfilling the outlet excavation. If the soil/gypsum mix is deemed unsuitable for use as outlet backfill, then the undercut material may need to be hauled and disposed of (e.g., in the SCP).

Acceptance of subgrade for liner deployment

- On 5/10/05, all of Area 3.

9.0 COMMENTS by PROGRAM MANAGER

- Regarding the damaged 4" HDPE vent pipe on the OGS-S outlet (i.e., the vent pipe buried 2 feet below grade on the west slope of the OGS-S Compartment that was inadvertently damaged by Moretrench on 4/27/05), CDM reported that another week will be required to draw down the OGS-S pond level, after which the vent can be repaired. Ardaman recommended that a valve should be installed on the 4" vent pipe, and will forward specifications for the valve to CDM.
- Ardaman informed CDM that a video survey of the buried 36" RCP common outfall pipe of the former NGS spillways which is to be grouted was reported undertaken by the former facility operators. If this survey is no longer on-file, a new video survey was recommended.

10.0 COMMENTS by FDEP and/or RECEIVER

- The Receiver requested CDM to submit a water management plan for the NGS-S before the onset of the rainy season. CDM has received Ardaman's Calendar Year 2005 Operation and Water Management Plan report, and the water management plan is in progress.
- A change order will be prepared by CDM to reflect increased resin costs for liner materials; additional cost information has been requested from Comanco.