

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 04-100A	Page 1 of 3
		Meeting Date: <u>4/14/05</u>	
		Report No: <u>6</u>	Report Date: <u>4/20/05</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	
<u>ATTENDEES:</u> Ardaman: Nadim Fuleihan, John Cameron, Rob Werner, Tom Leto, Tony Deatherage Receiver: Louis Timchak FDEP: John Coates CDM: Steve Solters, Dean Carter, Michael Cruz Moretrench: Steve Voytko, Harley Frady, Mike Panny Comanco: Tom Topp, Dragan Milosavljevic, Brad DeNeve, Joe Benz Guest: Gary Uebelhoer (ECT)			

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

The Next Construction Meeting is Scheduled for Thursday, April 21, 2005
Construction/Engineering Meeting at 8:00 am
Site Tour at 9:00 am Prior to CDM / FDEP Meeting

1.0 REVIEW MINUTES OF PREVIOUS MEETING

No corrections were noted

2.0 SAFETY

No safety issues were reported.

3.0 SUMMARY OF WORK PERFORMED

Moretrench:

- Continued hauling gypsum fill to dikes in Areas 2 (complete), 3, 4 and 5, and to the pond bottom in Areas 2 (complete), 3 and 4. Gypsum fill hauled this week was reported (by truck count estimate) as 37,348 cy (compacted-in-place), 168,608 cy to-date, as of 4/12/05.
- Continued compacting and rough grading Areas 2, 3 and 4, and started rough grading Area 5.
- Started finish grading Area 2.
- Continued mixing dry gypsum with wet black gypsum.
- Received 1000' of 18-inch HDPE outlet pipe and the fabricated HDPE elbow and plate. The balance of 18-inch HDPE outlet pipe is scheduled for delivery end of April.
- Continued maintenance of dewatering ditches and dewatering pump.
- Water usage for compaction this report - approximately 45,000 gallons
- Equipment: 1 D-8 dozer w/ripper, 4 D-6 dozers, 5 compactors, 2 backhoes, 1 long-stick backhoe, 1 water wagon, 6 dump trucks, 1 motor grader, 1 hydraulic 6" pump - 25 personnel.

Comanco:

- Continued receiving/unloading liner materials; 111 rolls of 80-mil smooth liner, 165 rolls of 80-mil 2-sided textured liner, and 30 rolls of 80-mil 1-sided textured liner were received as of 4/13/05.
- Continued liner installation in Area 1 - 277,876 sq ft (6.38 acres) of liner was installed this reporting period. Total liner installed as pf 4/13/05 is 379,961 sq ft (8.72 acres).

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- Equipment: 1 QC trailer, 6 generators, 3 wedges, 3 extruders, 1 backhoe, 1 dozer, 1 loader, 1 water truck, 1 crawler-carrier, 1 gator - 23 personnel

4.0 PROJECTED WORK FOR NEXT WEEK

Moretrench:

- Continue compacting and finish grading Area 1 west of station 21+00
- Continue compacting and finish grading Area 2, and start Area 3.
- Continue hauling gypsum fill and rough grading Areas 3, 4 and 5.
- Continue mixing soft black gypsum.
- Start welding HDPE outlet pipe.
- Maintain dewatering ditches and pump(s).
- Mobilize 1 additional water truck.

Comanco:

- Continue receiving/unloading liner. Liner production has been completed and all remaining liner rolls are in transit.
- Continue liner installation in Area 1 - it was anticipated that the accepted subgrade in Area 1 will be covered by 4/18/05.
- Start liner in Area 2 (east half) on 4/19/05, pending subgrade acceptance.

5.0 SURVEY NOTES

- The balance of Area 1 was as-built surveyed by Pickett on 4/7/05, except west of station 21+00.
- Pickett performed quantity take-up surveys of gypsum work completed by Moretrench on 3/24/05 and 4/5/05. The survey indicated fill quantities of 49,941 cy and 47,769 cy respectively, totaling 97,710 cy.
- Pickett is scheduled to as-built survey the northern 100' of Area 2 pond bottom on 4/16/05. This will allow Comanco to move equipment and materials out of Area 1 and to continue with liner deployment.
- Pickett is scheduled to as-built survey the eastern half of Area 2 on 4/18/05.

6.0 PROJECT SCHEDULE

- No workdays were lost to weather.
- The schedule was last updated on 3/8/05 (draft 7), with projected operational and completion dates are 8/1/05 and 8/30/05, respectively; the contract completion date is 8/30/05. The schedule will be updated to reflect fill quantities per the 3/2/05 topographic survey, and actual progress by Moretrench based on Pickett's take-up surveys on 3/24/05 and 4/5/05 (see 5.0 Survey Notes). Moretrench was requested to provide the take-up fill quantities sub-divided by area, in order to update activities for remaining hauled fill work area-by-area. **The subject schedule, although facilitated by Ardaman, is the Contractor's schedule in that it was developed and will be updated based on information (e.g., production rates, lead-times, etc.) provided by CDM and its subcontractors.**
- Moretrench continued good progress on hauled fill. However, finish grading (and subgrade compaction) in Area 2 (and the remaining section at the west end of Area 1) is presently behind the Draft 7 schedule. Liner deployment by Comanco in Area 1 is progressing ahead of the Draft 7 schedule. Thus, it appears that acceptance and transfer of partially completed portions of Area 2 may be needed if delays in liner deployment are to be avoided.

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).

- Moretrench's additional submittals for the 18-inch HDPE outlet pipe material were approved via email on 4/12/05.
- Moretrench submitted rebar shop drawings for the concrete inlet structure on 4/13/05.
- Moretrench submitted concrete mix design for the inlet structure on 4/12/04.

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- Moretrench was requested to submit a gradation and 10-lb sample of sand proposed for bedding the outlet pipe.

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. 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: 115 tests passing, 19 failing (Area 1 west dike, Area 2 east dike and Area 2 pond bottom) and 20 pending, including 7 re-tests. A location plan of the density tests was reviewed at the meeting.
- Liner roll conformance testing: tables of testing status (revision 4, dated 4/13/05) were distributed at the meeting; 80 rolls of 2-sided textured, 9 rolls of 1-sided textured, and 12 rolls of smooth liner have been conditionally approved for deployment; priority at this time is testing and releasing additional smooth liner.
- Liner seam destructive testing (DT's): 38 marked, 14 passing, 12 pending
- Liner anchor trench gypsum compaction testing: 14 passing

Miscellaneous

- Rainfall (inches) as reported by the Program Manager for this reporting period: 0.02 (April total 0.46).
- Earthwork cut and fill quantities for the NGS-S reservoir computed by Moretrench (as reported by Nick Haddon to Rob Werner via telephone on 4/12/05) are consistent with the quantities reported by Ardaman in an email dated 4/5/05. An area-by-area comparison was presented in an email from Ardaman to CDM on 4/13/05. The total neat in-place fill quantity is 206,500 cy, excluding approximately 30,000 cy to backfill the outlet excavation, and neglecting shrinkage and settlement.
- Ardaman will continue to report results of quality control tests in a timely manner. Moretrench was advised that requests for compaction density tests should be directed to Ardaman's lead technician, Tony Deatherage (or another Ardaman designee in his absence). Results of "speedy" moisture tests will be given verbally at the time of the tests, followed by verbal oven-dry testing results in 24 hours. Written confirmation of test results will be distributed after review by Rob Werner. In addition to quality control testing performed for the Department per the Specifications, Ardaman is agreeable to continue performing additional tests on behalf of the Department to assist the Contractor in planning and executing the work; however, Ardaman is under no contractual obligation to perform such additional tests for the Contractor or to be obligated to report such test results in a timely manner.
- Means and methods to achieve compaction requirements, which are the responsibility of the Contractor, were discussed at length. Where moisture contents are less than optimum, it was suggested by Ardaman that an effective way to achieve subgrade compaction would be to rip, water and then compact, in that order.
- Although means and methods are the responsibility of the Contractor, the Department and Engineer expect to be kept abreast of the Contractor's plans, and the Contractor shall consult and coordinate with the Department and Engineer prior to undertaking work outside the limits of construction.
- The "Draft 7" NGS-S construction schedule, although facilitated by Ardaman, is the Contractor's schedule in that it was developed and will be updated based on information (e.g., production rates, lead-times, etc.) provided by CDM and its subcontractors. Considering that subgrade preparation in Area 2 (and the remaining section at the west end of Area 1) is presently behind the Draft 7 schedule while liner deployment by Comanco in Area 1 is progressing ahead of schedule, it appears that acceptance and transfer of partially completed portions of Area 2 will be needed if delays in liner deployment are to be avoided. It was agreed that CDM, Moretrench and Comanco will coordinate their schedules so that Areas 3 through 6 can be accepted and transferred in their entirety, as originally intended.

Acceptance of subgrade for liner deployment

- On 4/8/05, Area 1 dike and all of the pond bottom, except west of station 21+00. This was the 3rd partial acceptance of Area 1.

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9.0 COMMENTS by PROGRAM MANAGER

- Ardaman distributed a comparison of the Engineer's and Contractors' material quantity estimates (Schedule D) on 3/30/05. A review of apparent discrepancies is in progress by CDM.

10.0 COMMENTS by FDEP and/or RECEIVER

- CDM and Moretrench were requested to submit a comparison of original (BAFO) and present (3/2/05 survey) earthwork quantities, with a breakdown into appropriate sub-categories such as hauling, compaction and finish grading, for consideration with respect to possible adjustments to the contract.
- The Receiver requested CDM to submit a water management plan before the onset of the rainy season.