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| <b>ARDAMAN &amp; ASSOCIATES, INC.</b><br><b>PROGRESS MEETING REPORT FOR</b><br><b>PINEY POINT GYPSUM STACK SYSTEM CLOSURE</b>                                                                                                                                                                                                         |                                                                                     | File No.: 04-100A<br>Meeting Date: <u>3/30/05</u><br>Report No: <u>4</u> Report Date: <u>4/6/05</u> |
| Project Name:                                                                                                                                                                                                                                                                                                                         | <b>CLOSURE CONSTRUCTION - PHASE III</b><br><b>NGS-S COMPARTMENT LINED RESERVOIR</b> | Project Address: 13300 U.S. Highway 41 North<br>Palmetto, Florida 34221<br>Manatee County           |
| <b>ATTENDEES:</b><br>Ardaman: Nadim Fuleihan, John Cameron, Rob Werner (telecom)<br>Receiver: Louis Timchak<br>FDEP: Phil Coram, John Coates, Jack Lowell<br>CDM: Steve Solters, Dean Carter, Michael Cruz<br>Moretrench: Steve Voytko, Harley Frady, Nick Haddon, Mike Panny<br>Comanco: Dragan Milosavljevic, Brad DeNeve, Joe Benz |                                                                                     |                                                                                                     |

**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 7, 2005***  
***Construction/Engineering Meeting at 8:30 am***  
***Site Tour at 11:00 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 1 and 2, and to the pond bottom in Area 2. Gypsum fill hauled this week was reported (by truck count estimate) as 29,635 cy (compacted-in-place), 73,068 cy to-date.
- Continued compacting and finish grading Area 1 dike and pond bottom.
- Continued compacting and rough grading Area 2 dike and pond bottom.
- Continued maintenance of dewatering ditches and dewatering pump.
- Equipment: 1 D-8 dozer w/ripper, 4 D-6 dozers, 3 vibratory compactors, 2 backhoes, 1 water wagon, 7 dump trucks, 1 motor grader, 1 hydraulic 6" pump - 22 personnel.

**Comanco:**

- Continued receiving/unloading liner materials; 110 rolls of 80-mil 2-sided textured liner were received as of 3/29/05.
- Started filling ballast sand bags and pre-fabricating geonet/geotextile composite.
- Started mobilizing for liner installation.

**4.0 PROJECTED WORK FOR NEXT WEEK**

**Moretrench:**

- Continue hauling gypsum fill to Areas 1 and 2 dikes and to Area 2 pond bottom, and start hauling to Area 3.
- Continue compacting and finish grading Area 1 dike and pond bottom.

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|                                                                                                                               | Meeting Date: <u>3/30/05</u>                                                              |                            |
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- Continue compacting and rough grading Area 2, and start Area 3.
- Continue mixing soft black gypsum.
- Maintain dewatering ditches and pump(s).

**Comanco:**

- Continue receiving/unloading liner - 80-mil 1-sided textured liner is scheduled to ship 3/30/05.
- Continue preparation and mobilization for liner installation.
- Start liner installation on 4/4/05, pending subgrade acceptance.

**5.0 SURVEY NOTES**

- A listing of control point coordinates and elevations (dated 2/28/05), used by IF Rooks for aerial topographic mapping, was provided by Ardaman to CDM and Moretrench at the 3/17/05 construction meeting. Moretrench indicated that Picket has verified compatibility of their control pints with those used by IF Rooks.
- Pickett is scheduled to perform the Area 1 as-built compliance survey on 3/31/05.

**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.
- Finish grading Area 1, including compaction to density specifications, was not completed and surveyed on 3/28/05 as originally scheduled. However, it was anticipated that compaction and as-built surveying can be completed by 4/1/05 for a portion of Area 1, i.e., the perimeter dike slope from station 21+00 to 27+50, including 74' of the pond bottom adjacent to the dike toe. It was agreed that Comanco could start liner on 4/4/05, as originally scheduled, on this portion of Area 1. Every effort will be made by Moretrench (including working through the weekend) to continue work in Area 1 as necessary to provide continuous work for the liner contractor.
- 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 survey. A date has not yet been determined for the take-up survey.

**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 submittals for 18-inch stainless steel gate valves and butterfly valves was approved by email on 3/30/05.
- Moretrench's submittals for the 18-inch HDPE outlet pipe material were not approved as submitted - additional information is required as outlined in a 3/30/05 email.
- Comanco's panel placement shop drawings were conceptually approved at the meeting.
- Moretrench was requested to submit rebar shop drawings for the concrete inlet structure.

**8.0 TECHNICAL ITEMS/CLARIFICATIONS AND QUALITY ASSURANCE**

**NOTE:** All drawings and specifications are Revision 0 - Issued for Construction, dated 3/9/05.

**Quality Control Activities**

- Ardaman has two technicians on site.
- In-place gypsum density tests: 20 tests are passing, 6 failing, and 20 pending. A location plan of the density tests was reviewed at the meeting. With respect to failing densities, it was noted that difficulty was being encountered with meeting density specifications on the perimeter dike inside slope. Ardaman indicated that the moisture content of the gypsum fill is substantially dry of optimum and suggested that the fill be wetted prior to compaction.

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- Liner roll conformance testing: a table of testing status (revision 2, dated 3/30/05) on 80-mil liner rolls (2 sided textured) was distributed at the meeting - 37 rolls have been conditionally approved for deployment.

#### **Miscellaneous**

- Rainfall (inches) as reported by the Program Manager for this reporting period: 0.13 (March total 5.19 as of 3/28/05).
- Comanco was requested to invoice Ardaman for shipping costs to pre-ship liner samples as instructed via e-mail on 3/16/05. Ardaman will invoice the Receiver for these costs.
- Ardaman distributed a comparison of the Engineer's and Contractors' material quantity estimated (Schedule D) at the meeting. CDM was requested to review apparent discrepancies. A comparison of earthwork cut and fill quantities for the NGS-S reservoir as computed by Ardaman and Moretrench was also distributed. The total neat in-place fill quantity estimated by Ardaman is 215,000 cy (excluding 30,000 cy to backfill the outlet excavation), whereas Moretrench's estimate is on the order of 200,000 cy. Ardaman indicated that a 10' grid spacing was used to determine their estimate - Moretrench was requested to check that the same grid spacing was used in their model.
- Ardaman also distributed an overall earthwork summary for all of the planned Calendar Year 2005 closure activities to illustrate the overall cut and fill balance.

#### **9.0 COMMENTS by PROGRAM MANAGER**

No comments.

#### **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.