

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 06-110A	Page 1 of 4
		Meeting Date: <u>9/28/06</u>	
		Report No: <u>80</u>	Report Date: <u>10/4/06</u>
Project Name:	CLOSURE CONSTRUCTION - OGS SLOPES, TOP CAPS & RELIEF DITCH, SCP-S AND PHASE II - NGS SLOPES		Project Address: 13300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee County
ATTENDEES: Ardaman: Rob Werner, John Cameron, Tony Deatherage FDEP: CDM: Dean Carter, Jean Wilson, George Curry Moretrench: Ralph Remmert Comanco: Tom Topp Compass: Tim Morrow, Jeremy Giles, Dylan Giles HRK:			

COPY TO: 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, Dick Slovarp
 Moretrench: Al Schuman, Steve Voytko, Mike Panny, Nick Haddon, Ralph Remmert
 Comanco: Tom Topp, Paul Moore
 Compass: Tim Morrow, Jeremy Giles, Tom McSweeney
 HRK: Art Roth, Ivan Nance

Next Meeting is Scheduled for Thursday, October 5, 2006
Site Tour at 8:00 am followed by
Construction/Engineering & CDM Operations Meetings

1.0 REVIEW MINUTES OF PREVIOUS MEETING

No corrections were noted.

2.0 SAFETY

No incidents were reported.

3.0 SUMMARY OF WORK PERFORMED

Comanco:

- Resumed grading for liner work on the Phase II Slope Closure stormwater ditch, and continued grading and cleaning the first 200 ft of seepage collection drain previously installed by Moretrench.
- Installed a second 65-foot long supplemental drain, using a panel drain collector, extending from the southern end of the seepage collection drain south to the vicinity of the rip-rap apron for Structure No. 4, to assist with construction dewatering related to continuation of liner installation in the Phase II stormwater ditch. See 8.0 Technical Items - Miscellaneous for more.
- Continued anchor trench compaction for liner previously installed in the Phase II south stormwater ditch.
- Completed Phase I Slope Closure stormwater ditch liner extensions at the inboard anchor trench below the 1:1 cut. See 5.0 Survey Notes for as-built requirements.
- Equipment: 2 excavators, 2 dozers, 2 plate compactors, 2 3-inch pumps, 1 loader, 1 track crawler dump, 1 trailer, 2 pick-up trucks, 1 crew van, 2 QC trailers, 6 generators, 1 smooth-drum roller, 1 sheepsfoot roller - 29 personnel. Mobilized sheepsfoot roller since last report.

Compass:

- Well Water usage - 10,000 gallons used for dust control since last report.
- Continued road repairs as needed, and cleaned equipment.
- Equipment: 5 dump trucks, 1 water truck, 2 D6 dozers, 1 D8 dozer, 1 excavator, 1 motor grader - 5 personnel.

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CDM

- Received panel drains, panel drain fittings and ancillary materials (for Phase I and II stormwater ditches including requested panel drain extensions), and HDPE clean-out plugs (Phase II seepage collection drains) from Frischkorn Inc. (formerly Lane Piping)
- In response to Ardaman's request, CDM indicated that the unit weight of Alabama Buff Gravel (provided by Conrad Yelvington) is 1.35 tons/cy; also that gravel has been over-ordered for the Phase II Slope Closure by 10% to allow for waste.

4.0 PROJECTED WORK FOR NEXT WEEK

Comanco:

- Continue work in the Phase II Slope Closure stormwater ditch - anchor trench compaction, seepage collection drain installation and liner installation.
- Continue liner repairs in the NGS-S as soon as the water level is lowered to elevation 41'.
- Continue working with GSE to reach a conclusion regarding the cause of recent extrusion weld problems and towards resolution to the problem going forward.

Compass:

- Begin first fertilization (subcontractor Tate Environmental) on the NGS-S south and east gypsum slopes, and second fertilization on the OGS and NGS Cap areas, and the OGS-S east and south inside slopes.
- Start silt fencing and dewatering trenches at the Gulfstream II borrow area.

CDM

- Will repair the soil berm south of the OGS south stormwater ditch, and clean up eroded soil sediment which has been deposited south of the fenceline along Buckeye Road.

5.0 SURVEY NOTES

- Compass/Edgemon completed as-built survey updates for the SCP-S Process Water Sump liner subgrade on 9/7/06. Ardaman requested a composite survey in ACAD format.
- Moretrench/Edgemon provided as-built surveys of the OGS north ditch rip-rap depressions on 7/21/06, 7/24/06, 7/26/06 and 8/3/06; Moretrench was requested to incorporate the as-built data into the composite as-built for the Phase I Slope Closure stormwater ditches - Ardaman requested an ACAD version for the composite as-built.
- CDM/Comanco were requested at the 8/17/06 construction meeting to provide an as-built of the Phase II Slope Closure stormwater ditch liner inboard anchor trench, which was not excavated at the time of the subgrade survey. The survey was performed on 8/28/06 - CDM is awaiting results.
- CDM was requested at the 8/24/06 construction meeting to survey water elevations in the seepage ditch and adjacent Buckeye Road ditch near the southwest corner of the SCP-S. The survey was performed on 8/28/06 - CDM is awaiting results from Edgemon.
- Standing water was observed during the 9/7/06 site tour on the road between the OGS-S and -OGS-N ponds; CDM was requested to survey the road grades.
- CDM/Comanco were requested to provide an as-built survey by Edgemon of the Phase I stormwater ditch liner extensions at the inboard anchor trench.
- An as-built survey by Edgemon was in progress during the meeting for the Phase II Slope Closure stormwater ditch at structure 4 and north to station 150+00; the survey will be reviewed by Ardaman after the meeting.

6.0 PROJECT SCHEDULE

- No workdays were lost to weather this reporting period.
- The project schedule will be updated by CDM and distributed by email on 10/3/06.

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- Regarding resumption of soil cover, Compass indicated that about 3,000 cy may be available mid-late October in conjunction with site preparation activities at Gulfstream II (e.g., recharge ditch excavation, etc.), and Compass indicated their intent to resume work in the OGS-S inside slope cover. CDM indicated that, as specified in the current CDM schedule, soil cover placement in the Phase I stormwater ditches will be completed prior to resumption of soil cover placement in the OGS-S Compartment.
- Weekend work schedule: Comanco on Saturday.

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). None currently pending.

8.0 TECHNICAL ITEMS/CLARIFICATIONS AND QUALITY ASSURANCE

Updated drawing sets, dated 9/28/05, were distributed at the 9/29/05 meeting for the NGS-S Cap and NGS-N Relief Ditch and the Phase I Slope Closure. Revised Phase I Slope Closure drawing Nos. C-2, C-5, C-6, D-6, D-9, D-10, D-11), dated 2/15/06 (various revision nos.) were distributed at the 2/16/06 construction meeting to reflect changes related to lowering the OGS south stormwater ditch seepage collection drain. Electronic (ACAD) are available for download from Ardaman's ftp web site. Current drawings, dated 12/16/05, were distributed at the 12/16/05 meeting for Slope Cover Construction - OGS Ponds. Current drawings (including all detail drawings for structures, drains, etc.), dated 12/22/05 (various revision nos.), for the Phase II Slope Closure were delivered to CDM at the site on 12/23/05. Current drawings (including all detail drawings for structures, drains, etc.), dated 1/11/06 (various revision nos.), for the SCP-South Compartment Closure were distributed on 1/12/06, along with CD's containing ACAD files for all current for the SCP-South and Phase II slope Closure drawings. Revised SCP-South Compartment Closure Drawing No. D-6, dated 2/15/06 (Rev. 1), was distributed at the 2/16/06 construction meeting to reflect changes related to the lowered the OGS south seepage collection drain - an electronic version (ACAD) was emailed to CDM and Moretrench on 2/28/06. Regarding finish grades for the SCP-S Process Water Sump, a drawing was provided by Ardaman at the 7/6/06 construction meeting (and attached to meeting minutes) indicating optional design grades for the pond bottom area, which were adopted by CDM/Compass. Drawing Nos. C-1, C-3, C-4, D-1 and L-1 will be updated for the record to indicate the revised grading plan.

Regarding specifications for the OGS Slopes, Top Cap Areas and NGS-N Relief Ditch, pertinent NGS-S Reservoir, Phase II OGS Compartment Closure and ITN specification documents shall be used. Pertinent specification sections from the Phase II and ITN sources, along with specifications for HDPE panel drains and concrete erosion control mats, were issued in a preliminary specification document (Sections 24, 25, 26, 27, 28, 29 and 30, all revision 0, dated 7/6/05) on 7/7/05. Additional supplemental specifications for "Woven Geotextile" and "General Earthwork Using Soil" (Sections 31 and 32, both revision 1, dated 1/4/06) were distributed at the meeting on 1/5/06.

- Preliminary drawings and CD's were distributed at the 9/15/05 meeting for the NGS-S Soil Slope Cover Construction, C-1 through C-5 for Contractor's use in estimating take-off quantities.
- Preliminary drawings for the NCP capacity upgrade project were revised; CAD files were emailed to CDM on 7/19/06 and 4 sets of hard copies were distributed at the 7/20/06 construction meeting. Preliminary technical specifications (revision P1) were emailed to CDM on 7/14/06.
- Drawings were distributed by Ardaman at the 7/20/06 meeting for additional panel drains required in the following areas: OGS Slope Pond, OGS-N Cap, OGS west and south ditches, and the NGS-S east ditch. CDM was requested to provide a proposal for the extra work.

Quality Control Activities

- Ardaman had 3 technicians on site this reporting period.
- Phase I Slope Closure in-place gypsum/soil density tests - no change - 945 tests passing, none failing, none pending.
- Phase II Slope Closure in-place gypsum/soil density tests - 127 tests passing, none failing, none pending.
- OGS-S slope cover in-place soil fill density tests - no change - 59 passing, none failing, none pending.
- Phase II Slope Closure 80-mil stormwater ditch liner seam destructive testing (DT's) - no change - 11 marked, 11 passing, none pending. A summary of DT testing dated 8/24/06, revision 1, was distributed 8/24/06.

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- Phase II stormwater ditch liner anchor trench density tests - 11 passing, 13 failing, none pending.

Miscellaneous

- Rainfall: CDM reported 0.95 inches from 9/20/06 through 9/25/06.
- Compass/Tate Environmental indicated at the 9/7/06 construction meeting that a tabulation for grassing work to date, including dates of installation, fertilizing, repairs, etc., would be submitted to CDM.
- An executed copy of Change Order No. 13 was distributed by FDEP via email on 9/27/06.
- Ralph Remmert, representing Moretrench, attended the meeting to highlight certain contractual/payment issues between CDM and Moretrench.
- Regarding resolution of the extrusion welding problems, Comanco/GSE will report results of their investigation. A new shipment of extrusion welding rod was scheduled for delivery on 9/29/06. Ardaman reiterated that determination of cause and actions for prevention of future occurrence need to be finalized before full-scale production extrusion welding can resume.
- As reported in the minutes from the 9/21/06 meeting, Comanco installed an 85-foot long supplemental seepage drain extending from the southern end of the design seepage collection drain along the upstream toe of the stormwater ditch to a location near the proposed rip-rap pad for the outlet pipe of Structure No. 4 to intercept seepage from a remnant historic boil repair drain encountered during dewatering and ditch grading operations. *[For the record, the need for installation of that supplemental drain was agreed upon in a 9/18/06 conference call between CDM, Comanco and Ardaman. During that call, the potential need to extend the supplemental drain into the area beneath the proposed rip-rap pad for Structure No. 4 was also discussed. On 9/22/06 CDM/Comanco indicated to Ardaman's technician that they intended to install a second supplemental drain and in response he advised CDM/Comanco to contact the Engineer for confirmation prior to proceeding. On Saturday 9/23/06, Comanco elected to proceed with installation of the second supplemental drain.]*
- As discussed at the 9/21/06 meeting, results of tests by Ardaman on samples of UV-exposed composite geotextile materials provided by CDM on 9/14/06 did not exhibit significant UV degradation. On the other hand, results of tests performed on samples of the spunbonded fabric on the panel drains displayed significant reductions in tensile strength (as well as significant increase in strength variability). Fabric wrap on panel rolls that exhibit degradation will need to be replaced and the outer wrap of remaining panel drain rolls (i.e., those that do not have torn edges) will need to be discarded.

Acceptances

- None since last report.

9.0 COMMENTS by PROGRAM MANAGER

- Documentation provided by Moretrench in a report by their consultant (JBM&R) pertaining to their change order claim to CDM related to Phase I closure gypsum quantity adjustments, stormwater conveyance structures and Phase I seepage collection drain were discussed at a meeting on 8/9/06 with FDEP and Ardaman. CDM indicated that they provided feedback to Moretrench on 8/23/06 and 8/28/06, and is awaiting a response from Moretrench. Moretrench hand delivered a response to CDM at the 9/21/06 construction meeting. A meeting is scheduled with CDM, Moretrench, Ardaman and FDEP on 10/12/06 at 1:00 p.m.
- A proposal for gravel erosion protection, yet to be installed along the inboard slope of the access road at the toe of the OGS-S slope cover, was discussed at the 8/10/06 Program Manager's meeting. CDM is awaiting feedback from FDEP.
- Soil cover quantities for Tasks C2 and C3 were discussed at the Program Manager's meeting on 9/7/06; CDM will review input from Compass which was received on the day of the meeting.
- CDM has received proposals from Compass and Comanco to install additional panel drains, requested by Ardaman at the 7/20/06 construction meeting, in the OGS Slope Pond, OGS-N Cap, OGS west and south ditches, and the NGS-S east ditch. CDM is reviewing the proposals.
- CDM was requested at the 9/21/06 construction meeting to submit a summary report regarding the incident of metal shovels being used by Comanco to clean liner on 9/11/06 in the Phase II Slope Cover lined stormwater ditch.