

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 05-110A Meeting Date: <u>9/21/06</u> Report No: <u>79</u>	Page 1 of 5 Report Date: <u>9/27/06</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: Tom Leto, Rob Werner, John Cameron, Tony Deatherage FDEP: John Coates CDM: Dean Carter, Steve Solters, Jean Wilson, George Curry Moretrench: Ralph Remmert Comanco: Tom Topp Compass: Dylan Giles HRK: Art Roth			

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, September 21, 2006
Construction/Engineering Meeting at 9:00 am

1.0 REVIEW MINUTES OF PREVIOUS MEETING

No corrections were noted.

2.0 SAFETY

No incidents were reported.

3.0 SUMMARY OF WORK PERFORMED

Moretrench:

- No work was performed or is planned at this time by Moretrench (except NGS-S liner repairs), and their representative indicated that they would not be represented at future meetings.
- Regarding liner repairs in the NGS-S (caused by Moretrench's PVC header pipe), it was requested that all invoices for this work should be sent to Moretrench as soon as possible. Moretrench also requests they be notified upon final inspection and acceptance of the repair work.

Comanco:

- Completed most of the liner repairs in the NGS-S. Completion of the remaining repairs is temporarily on hold until the water in the NGS-S, which had risen to submerge the repair locations due to recent heavy rains, can be lowered.
- Started work on the Phase II seepage collection drain installation - started grading and cleaning the first 200 ft of drain previously installed by Moretrench; also installed an 85 ft drain extension from the southern end of the seepage collection drain south towards the drop structure outlet pipe location to intercept seepage from a remnant historic boil repair drain encountered during dewatering and ditch grading operations.
- 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 - 29 personnel. Mobilized smooth-drum roller since last report.

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Compass:

- Continued mowing grass on OGS-S soil cover (second mowing).
- Continued road repairs as needed.
- Well Water usage - 10,000 gallons used for dust control since last report.
- Equipment: 5 dump trucks, 1 water truck, 2 D6 dozers, 1 D8 dozer, 1 excavator, 1 motor grader - 8 personnel.

CDM

- Received the following from Overland Services: 792 tons of concrete rubble proposed for use as rip-rap in the Phase I stormwater ditches, and 75 tons proposed for use in the Phase II stormwater ditches. (See 8.0 Technical Items - Miscellaneous for more.)

4.0 PROJECTED WORK FOR NEXT WEEK

Comanco:

- Continue anchor trench compaction along the edge of the Phase II south stormwater ditch.
- Continue liner repairs in the NGS-S.
- Continue Phase II seepage collection drain installation.
- Continue Phase I stormwater ditch liner extensions at the inboard anchor trench.

Compass:

- Continue mowing OGS/NGS Cap areas and slope pond (second mowing).
- May begin second fertilizing (subcontractor Tate Environmental).

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.

6.0 PROJECT SCHEDULE

- 1 workday was lost to weather by Comanco this reporting period; none by Compass.
- The project schedule was updated by CDM and distributed by email on 9/19/06. The updated schedule was distributed and discussed at the meeting.
- It was noted that permitting for the Gulfstream II soil borrow area is now projected to complete 1 month later on 10/31/06; soil cover is now scheduled to resume mid-October assuming some soil will become available in conjunction with borrow site preparation activities. CDM noted that the schedule will be corrected to reflect completion of the Phase I stormwater ditch soil cover ahead of resumption of the OGS-S slope cover.
- It was also noted that several activities have been added to reflect work planned in the SCP-S Cap, Pore Water Lift Station (to Manatee Co. Sewer), NCP, NGS-N (liner cleaning), SCP-N and Basin No. 2. In addition, several lines were

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added to the schedule to reflect original target, projected and delayed dates for various watershed removals. It was suggested that the projected milestone dates be logically linked to completion dates for corresponding critical path activities.

- 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).

- Comanco submitted liner panel placement drawings on 7/28/06 for the Phase II Slope Closure 80-mil stormwater ditch and 60-mil stormwater pond. The 80-mil stormwater ditch was approved by Ardaman on 7/31/06, subject to minor field adjustments. The 60-mil stormwater pond required clarification regarding cross seams. Comanco submitted a revised panel layout to Ardaman on 9/7/06, which was approved by email on 9/18/06.
- Compass submitted fertilizer specifications and application rates for approval on 9/14/06. The proposed specifications and application rates were verbally approved by Ardaman at the 9/14/06 construction meeting, and confirmed by email on 9/18/06.

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. Copies of these figures were attached to the electronic version of the meeting minutes.

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Quality Control Activities

- Ardaman had 4 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 - no change - 121 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 at the 8/24/06 construction meeting.
- NGS-S repairs liner seam destructive testing (DT's) - 6 marked (#'s 334-339), 6 passing, none failing, none pending. No additional DT's are required for the NGS-S repairs.
- Phase II stormwater ditch liner anchor trench density tests - 4 passing, 10 failing, none pending.

Miscellaneous

- Rainfall: CDM reported 2.91 inches from 9/13/06 through 9/19/06.
- 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.
- Regarding on-site material storage, packaging and temporary covers (tarps), used to protect fabric-wrapped panel drain, non-woven geotextile and geonet geotextile composite materials against sunlight-UV degradation, have been damaged (or blown away), resulting in deterioration of some rolls. CDM provided samples at the 9/14/06 construction meeting to Ardaman for testing. Ardaman commented verbally at the meeting that test results on fabric samples from the geocomposite materials 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. Ardaman will follow-up with a report by email.
- CDM completed their airboat-pump sludge transfer test in the SCP-N. Based on observations and results of the sampling performed during the test period (a courtesy copy of which was emailed to FDEP and Ardaman on 9/14/06), CDM reported that the airboat-pump sludge transfer method tested does not appear viable.
- Ardaman made a preliminary inspection of the stockpile of concrete rubble materials that CDM proposed to use as rip-rap in the stormwater ditches. Based on observations of large-sized materials at the surface, some breaking-up of the delivered materials may be required to meet the specified weight-based distribution. Further, some reinforcing steel was observed. Hence, some degree of processing (at the storage site) and removal of reinforcing steel will be required before inspection for acceptance can be made.
- Regarding CDM's ongoing efforts to control and mitigate erosion from the soil berm south of the OGS south stormwater ditch, they reported that eroded soil sediment that has been deposited south of the fenceline will be cleaned-up. It was agreed that some of the clayey LA Enterprise soil loads stockpiled in the plant area could be used for erosion repairs.

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 meeting.
- 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.

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- Soil cover quantities for Tasks C2 and C3 were discussed at the Program Manager's meeting on 9/7/06; CDM is waiting on input from Compass to indicated their agreement.
- CDM has received a proposal from Compass 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 has requested a proposal from Comanco as well.

10.0 COMMENTS by FDEP

- A draft of Change Order No. 13 has been issued to CDM for signature.
- It was observed during the site tour that erosion is still problematic on the OGS south dike adjacent to Buckeye Road, and that the dike needs additional repairs.
- CDM was requested 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.
- CDM/Compass were requested to advise of their plans to start mowing grassed gypsum slopes.