

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 06-110A Meeting Date: <u>11/2/06</u> Report No: <u>85</u>	Page 1 of 4 Report Date: <u>11/7/06</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: Nadim Fuleihan (telecon), Rob Werner, John Cameron, Tony Deatherage FDEP: John Coates, Sam Zamani CDM: Mick Edgar, Dean Carter, Mike Cruz, Jean Wilson, George Curry Comanco: Paul Moore Compass: Tom McSweeney, Tim Morrow, 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
 Comanco: Tom Topp, Paul Moore
 Compass: Tim Morrow, Jeremy Giles, Tom McSweeney
 HRK: Art Roth, Ivan Nance

Next Meeting is Scheduled for Thursday, November 9, 2006
Construction/Engineering Meeting at 9:00 am

1.0 REVIEW MINUTES OF PREVIOUS MEETING

No corrections were noted.

2.0 SAFETY

CDM reported that an excavator, while removing weeds on 10/30/06 from the Buckeye Road ditch, cut through an unmarked fiber optic cable. The cable had apparently been recently installed by Verizon without the knowledge of CDM. CDM will forward a written report to FDEP.

3.0 SUMMARY OF WORK PERFORMED

Comanco:

- Continued Phase II stormwater ditch grading and seepage collection drain installation - the drain has been completed up to station 130+00 as of 11/1/06.
- Also continued Phase II ditch liner installation. Installed about 28,700 sf this week (239,920 sf total as of 11/1/06). Also resumed extrusion welding - see 8.0 Technical Items - Miscellaneous for more.
- Equipment: 2 excavators, 2 dozers, 2 plate compactors, 2 3-inch pumps, 1 4-inch vacuum pump, 1 loader, 1 track crawler dump, 1 mini-excavator, 1 trailer, 2 pick-up trucks, 1 crew van, 2 QC trailers, 6 generators, 1 smooth-drum roller- 30 personnel.

Compass:

- Well Water usage - 75,000 gallons used for dust control since last report.
- Continued washout repairs on the Phase I slopes and Cap Ponds - complete except the OGS west slope.
- Equipment: 6 dump trucks, 2 water trucks, 2 D6 dozers, 1 D8 dozer, 2 excavators, 2 motor graders - 7 personnel. Mobilized 1 dump truck and 1 water truck since last report.

CDM

- Continued dewatering and stockpiling gypsum sediment/sludge in the SCP-S Cap area. Started using a double-diaphragm pump in the north dewatering ditch on 10/30/06.

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 06-110A	Page 2 of 4
	Meeting Date: <u>11/2/06</u>	
	Report No: <u>85</u>	Report Date: <u>11/7/06</u>
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4.0 PROJECTED WORK FOR NEXT WEEK

Comanco:

- Continue work in the Phase II Slope Closure stormwater ditch - dewatering, fine grading and compaction, seepage collection drain installation and liner installation.

Compass:

- Continue repairing washouts.
- Start silt fencing at the Gulfstream II borrow area.

CDM

- Continue site preparation activities in the SCP-S area.

5.0 SURVEY NOTES

- Edgemon continued as-built surveys for the Phase II Slope Closure stormwater ditch drain installation and liner subgrade as the work progressed by Comanco. Approval by Ardaman is based on field notes signed by Edgemon's surveyor and provided by Comanco/CDM. A composite as-built survey was provided via email by CDM for work performed by Comanco through 10/27/06 - it was requested that this survey be updated weekly. CDM also provided (by email) a pdf version of Edgemon's pre-construction stakeout drawing for the Phase II ditches and stormwater pond. Ardaman requested a CAD version.
- CDM provided a pdf file to Ardaman by email on 10/10/06 of as-built survey data for the Phase I stormwater ditch inboard anchor trench liner extensions. A review of the data indicates that the liner extensions may or may not still be short in some areas, depending on the steepness of the slope when the liner extension is actually installed on a smooth and compacted subgrade. In order to assure compliance, the elevation of the liner extension should be re-surveyed after final installation.
- CDM was requested to resurvey the invert elevation profile of the relief ditch between the SCP-S and SCP-N.

6.0 PROJECT SCHEDULE

- No workdays were lost to weather this reporting period.
- The project schedule was updated by CDM on 11/2/06 to reflect current work progress, and was distributed and discussed at the meeting. CDM also reviewed new activities which have been added in connection with work planned for the SCP-S west, SCP-N and NCP closures.
- CDM indicated that various soil cover activities have been linked to clarify the sequence of this work, and that projected watershed removal dates have been linked to appropriate grass maturation activities.
- Regarding resumption of soil cover, Compass' latest plan is to start hauling from Larkin at a reduced rate as early as 11/16/06 (see 8.0 Technical Items - Miscellaneous for more), and at full rates from Gulfstream II on 12/4/06.

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).

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.

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 06-110A	Page 3 of 4
	Meeting Date: <u>11/2/06</u>	
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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

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.
- Drawings were distributed by Ardaman at the 10/5/06 meeting to add 4-inch bleeder orifices at structure #7 in the OGS Slope Pond. CDM was requested to provide a proposal for the extra work, and to include it in the change order request for additional panel drains.
- Drawings were distributed at the 10/19/06 meeting for the SCP-S and SCP-N as follows: C-1, C-2, C-3, C-4 and L-1, all revision 0, dated 10/20/06. Electronic versions of Dwg. Nos. C-1 and L-1 were provided via email on 10/20/06. Drawing C-1, revision 1, dated 10/31/06, was distributed at the meeting (hard copies and CD's). Additional detail drawings will follow.

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 passing, none failing, none pending.
- Phase II Slope Closure in-place gypsum/soil density tests - 175 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) - 46 marked (OR PLANNED), 13 passing, 13 pending. A summary of DT testing dated 8/24/06, revision 1, was distributed at the 8/24/06 meeting.
- Phase II stormwater ditch liner anchor trench density tests - 39 passing, 1 failing, none pending.

Miscellaneous

- Rainfall: CDM reported 0.48 inches from 10/25/06 through 10/31/06.
- Regarding extrusion welding problems, there have been no new occurrences since using a new lot of welding rod (GES resin lot # 8261193) starting on 10/27/06. Comanco is awaiting on a report from GSE regarding findings subsequent to David Legget's visit on 10/26/06.
- Ardaman, CDM and FDEP (Scott Rose) observed conditions in the seepage breakout on the access road along the north toe of the return ditch containment berm. Ardaman summarized observations and provided recommendations

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 06-110A	Page 4 of 4
	Meeting Date: <u>11/2/06</u>	
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to the Department by email on 10/16/06. CDM responded to the recommendations by email on 10/20/06. CDM reported that work has been completed, as indicated in a follow-up email to FDEP.

- Ardaman and FDEP (Scott Rose) observed conditions of resumed seepage flow from the "Granddaddy Boil" area located near the east end of the return ditch along the north toe of the OGS, and CDM reported water sampling results at the 10/12/06 meeting. CDM and Ardaman will continue to monitor seepage flow at this location.
- Compass indicated that their present plan is to import soil for soil cover from the Larkin Nurseries site on U.S. 41. Results of tests performed on two stockpile samples from the site taken in March 2006 indicated that material can meet the project specifications. Upon request, Ardaman and DEP will accompany CDM/Compass to the proposed site. Ardaman will take bulk samples for geotechnical testing. CDM/Compass will obtain samples for chemical screening and will provide spilt samples to DEP. Compass will also seek permission from Larkin to forward results of prior soil borings to Ardaman.

Acceptances

- On 10/31/06, subgrade for liner installation, Phase II Slope Cover stormwater ditch, from station 136+50 to 131+50.

9.0 COMMENTS by PROGRAM MANAGER

- 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 has reviewed input provided by Compass on 9/28/06, and emailed quantities to FDEP and Ardaman for review. CDM has indicated agreement with all Ardaman quantities, except for the OGS-N.
- 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 submitted a change order request for this work, and received comments by FDEP on 10/18/06. CDM submitted a revised change order request on 10/24/06.
- 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 in the Phase II Slope Cover lined stormwater ditch. CDM distributed a final report by email on 10/27/06.
- A tabulation for grassing work to date was received by CDM from Compass, and forwarded to FDEP on 10/2/06. The tabulation was distributed at the 10/12/06 meeting; CDM was requested to include a tabulation of acres for each area worked - they are presently reviewing a tabulation provided by Compass.

10.0 COMMENTS by FDEP

FDEP noted significant erosion areas on the NGS-S south and east slopes, and requested that Ardaman survey and characterize the erosion areas (size and severity). CDM was requested to submit a plan to repair these areas by the next Program Manager's meeting on 11/16/06.

11.0 COMMENTS by HRK

No comments.