

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 06-110A	Page 1 of 5
		Meeting Date: <u>11/22/06</u>	
		Report No: <u>88</u>	Report Date: <u>11/29/06</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: Steve Solters, Jean Wilson, George Curry Comanco: Compass: Tim Morrow, Jeremy 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
 Comanco: Tom Topp, Paul Moore
 Compass: Tim Morrow, Jeremy Giles, Tom McSweeney
 HRK: Art Roth, Ivan Nance

Next Meeting is Scheduled for Thursday, November 30, 2006
Site Tour at 8:00 am followed by Construction
and CDM Operations Meetings

1.0 REVIEW MINUTES OF PREVIOUS MEETING

The scheduled date for this meeting was actually 11/22/06, and not 11/29/06 as reported in the last meeting minutes.

2.0 SAFETY

No safety incidents were reported.

3.0 SUMMARY OF WORK PERFORMED

Comanco:

- Continued Phase II stormwater ditch grading and seepage collection drain installation. Drain has been completed from station 151+20 to 120+50 as of 11/21/06
- Also continued Phase II ditch liner installation. Installed about 8,941 sf this week (277,644 sf total as of 11/21/06).
- 18 additional rolls of 80-mil textured liner were received from Agru-America on 11/20/06 - see 7.0 Shop Drawings and Submittals for more.
- Equipment and personnel - no report; Comanco was not represented at the meeting.

Compass:

- Well Water usage - 20,000 gallons used for dust control since last report.
- Continued washout repairs on the Phase I slopes.
- Water seeded and sodded areas.
- Equipment: 6 dump trucks, 2 water trucks, 2 D6 dozers, 1 D8 dozer, 2 excavators, 2 motor graders, 4 club carts, 1 pickup truck - 6 personnel. Most equipment presently stored on site will be needed later when the Gulfstream II borrow area is available for hauling soil fill.

CDM

- Continued dewatering and stockpiling gypsum sediment/sludge in the SCP-S Cap area.

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- Started re-excavating the relief ditch between the SCP north and south compartments.
- Completed erosion repairs at the SCP-PWS east dike exterior slope.
- Equipment: 2 dump trucks, 1 dozer, 1 excavator - 1 personnel.

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.
- If Comanco elects to use a dewatering ditch to facilitate drain installation, Ardaman/DEP should be notified prior to implementation, and all water collected in the dewatering ditch shall be routed to the existing seepage ditch.

Compass:

- Continue repairing washouts.
- Start silt fencing at the Gulfstream II borrow area.
- Start hauling soil fill from the Larkin Nurseries borrow site to the NGS-N west ditch - tentatively scheduled to start 11/29/06, pending FDEP approval - see 7.0 Shop Drawings and Submittals for more.

CDM

- Continue site preparation activities in the SCP-S area.
- Excavate the side slopes of the overflow cut between the return ditch and the southeast corner of the SCP-N.
- Continue re-excavating the relief ditch between the SCP north and south compartments.
- Repair washout location on the OGS south dike (facing Buckeye Road).
- Dredge America may start installation of the dredge discharge pipe.
- Inquip may start mobilization for the slurry wall installation at the NCP.

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 drawing of as-built surveys was last updated by Edgemon on 11/11/06.
- 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. 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/Edgemon were requested to re-survey the invert elevation profile of the relief ditch between the SCP-S and SCP-N, after re-excavation is complete.
- Dredge America performed a pre-dredge survey of the SCP-N; CDM is awaiting results. CDM was requested to forward a copy of the survey results to Ardaman.

6.0 PROJECT SCHEDULE

- No work days were lost to rain this reporting period.
- CDM was requested last meeting by FDEP to add the following activities to the schedule: 1) installation of the stormwater drain from basin 02 to outfall 001; 2) slope washout repairs on the gypsum stack phase 2 slope closure, including a link to show its impact on the delayed watershed removal date. Also to firm up scheduling forecasts for activities related to the NCP slurry wall installation (by Inquip) and SCP-N dredging (by Dredge America), and to provide an updated table of watershed reduction dates.
- CDM indicated that the project schedule was updated per the above requests, and was distributed by email on 11/21/06.

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- Regarding resumption of soil cover, results of chemical screening for samples obtained from the Larkin pit are still pending - see 7.0 Shop Drawings and Submittals for more. Compass indicated that this work may start on 11/29/06.
- Regarding permit status for the Gulfstream II borrow site, Compass indicated that the pre-application was reviewed with SWFWMD on 11/9/06, that changes have been completed as requested by SWFWMD, and that the modified application has been submitted to Gulfstream for signature and submission to SWFWMD. Based on 5-day approval by SWFWMD, Compass indicated that hauling may start from Gulfstream II on 12/11/06. Compass reported that a status report was emailed to FDEP on 11/21/06.
- Weekend work schedule: no work is planned on the 4-day Thanksgiving Day weekend.

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).

- Regarding approval status of 30 rolls of Agru America 80-mil textured liner recently received by Comanco: all factory quality control test reports have been received by Ardaman from Agru America on behalf of Comanco. Ten rolls, produced during the production run made for the SCP-PWS liner, have been previously tested for conformance and conditionally approved by Ardaman. Samples of 12 rolls were provided on the day of the meeting by Comanco to Ardaman for conformance testing.
- On Tuesday, 11/10/06, CDM/Compass, Ardaman and FDEP obtained soil samples from three stockpile locations at the Larkin Nurseries borrow site on U.S. 41. Compass/CDM obtained samples for chemical screening and provided split samples to FDEP - CDM should submit testing results to FDEP. Ardaman obtained bulk samples at the same locations for geotechnical testing - based on the samples tested, Ardaman reported by email on 11/21/06 that the proposed borrow materials can generally meet specification requirements.

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.

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- 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. Copies of these figures were attached to the electronic version of the meeting minutes.
- Preliminary 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).
- Final drawing sets for the SCP phase 2 closure, dated 11/8/08, including all detail and liner drawings, were issued for construction and distributed at the 11/16/06 meeting (hard copies and CD's). Additional signed large Drawings will be distributed in short order.

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 - 191 passing, none failing, 1 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) - 33 marked, 32 passing, none failing, 1 pending. A summary of DT testing was last updated on 11/15/06 (revision 3).
- Phase II stormwater ditch liner anchor trench density tests - 45 passing, 1 failing, none pending.

Miscellaneous

- Rainfall: CDM reported 1.21 inches from 11/15/06 through 11/20/06.
- Regarding extrusion welding problems on GSE liner, Comanco is awaiting on a report from GSE regarding findings subsequent to David Legget's visit on 10/26/06.
- CDM and Ardaman continue to monitor seepage flow at the Granddaddy Boil location.
- Ardaman provided an "Erosion Damage Characterization" plan and tabulation for the previously seeded areas of the Phase II amended gypsum slopes (i.e., the south slope and east slope south of the former east slope ramp) at the 11/9/06 construction meeting. Discussions between CDM and Compass are in progress.

Acceptances

- On 11/21/06, subgrade for liner installation, Phase II Slope Cover stormwater ditch, from station 122+00 to 120+50. (It was noted that the acceptance form has not been executed as yet - it should be available next meeting).
- At CDM's request, CDM, Compass and Ardaman will inspect grassing at the NGS-S and OGS Caps, after the construction meeting.

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, for which CDM is waiting on comments from Compass.
- CDM submitted a revised change order request on 10/24/06 for installation of additional panel drains in the OGS Slope Pond, OGS-N Cap, OGS west and south ditches, and the NGS-S east ditch. Also included in the change order scope is addition 4-inch bleeder orifices at structure #7 in the OGS Slope Pond per the figure distributed by Ardaman at the 10/5/06 meeting .

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- 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.
- CDM indicated that contract negotiations are essentially complete with Inquip and Dredge America, and contract documents are awaiting signatures.
- Ardaman was requested to attend a pre-dredge meeting with CDM and Dredge America on 11/30/06 at about 11:30 am, after the construction meeting.

10.0 COMMENTS by FDEP

FDEP was not represented at the meeting.

11.0 COMMENTS by HRK

HRK was not represented at the meeting.