

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 06-110A	Page 1 of 5
		Meeting Date: <u>1/18/07</u>	
		Report No: <u>96</u>	Report Date: <u>1/24/07</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: John Cameron, Tony Deatherage (Nadim Fuleihan & Rob Werner via telecom) FDEP: CDM: Dean Carter, Mike Cruz, Jean Wilson, Steve Solters, George Curry Comanco: Compass: Jeremy Giles Moretrench: Ralph Remmert, Mike Panny, Ronnie Branch 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
 Moretrench: Mike Panny, Ralph Remmert
 HRK: Art Roth, Ivan Nance

Next Meeting is Scheduled for Thursday, January 25, 2006
Site Tour at 8:30 am followed by Construction
and CDM Operations Meetings

1.0 REVIEW MINUTES OF PREVIOUS MEETING

- 8.0 Technical Items - Miscellaneous: rainfall reported by CDM was actually through 1/7/07.

2.0 SAFETY - No safety incidents were reported.

3.0 SUMMARY OF WORK PERFORMED

Comanco:

- Completed Phase II stormwater ditch 80-mil liner deployment on 1/17/07, and continued detail work. Liner installed at the Phase II ditch totaled 429,438 sq ft.
- Continued Phase II stormwater pond 60-mil liner installation - 105,234 sf total as of 1/16/07.
- Equipment: 1 excavator, 1 loader, 1 track crawler dump, 2 pick-up trucks, 1 Q/C trailer, 4 generators - 11 personnel.

Compass:

- Well Water usage - 200,000 gallons since last report.
- Continued washout repairs on the OGS west slope.
- Watered seeded and sodded areas.
- Continued rough grading soil cover in the Phase I stormwater ditches - no soil fill was hauled since last report..
- Equipment: 6 dump trucks, 2 water trucks, 2 D6 dozers, 1 D8 dozer, 2 excavators, 1 motor graders, 3 club carts - 9 personnel. Some equipment (e.g., dump trucks) is not currently being used.

Moretrench

- Continued fine grading the Phase II stormwater pond.
- Mobilized backhoe to excavate for 20-inch OGS-S Cap outlet pipe fusion repair at OGS west ditch.
- Equipment: 1 dozer, 1 compactor, 1 backhoe - 4 personnel.

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 06-110A	Page 2 of 5
	Meeting Date: <u>1/18/07</u>	
	Report No: <u>96</u>	Report Date: <u>1/24/07</u>
CLOSURE CONSTRUCTION - PHASE I OGS SLOPES, PHASE II NGS SLOPES AND SCP	Project Address: 13300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee County	

CDM

- Continued gypsum sediment removal from the Phase II stormwater ditches.
- Continued NGS-N wash-down and sludge removal.
- Continued hauling Basin 2 soil for the NGS-N stormwater pond.
- Completed erosion repairs on the NGS-S east slope [checked repairs after meeting - actually completed on south side, and east side north to about station 146+00].
- Started backfilling soil and waste bricks along the northern edge of the SCP-S Cap.
- Completed pushing sludge build-up from the eastern side of the NCP using Calhoun airboat (partially successful).
- Weedbusters started removing aquatic vegetation from the SCP-N.
- Equipment: 2 dump trucks, 2 dozers, 2 excavators, 1 4-inch diaphragm pump - 11 personnel.
- Dredge America continued dredging the SCP-N. A written report by Dredge America was distributed by CDM by email on 1/15/07 - volume removed was estimated at 37,417 cy as of that date.
- Inquip continued mobilizing for the NCP slurry wall extension. A pre-construction meeting on 1/11/07 was attended by representatives from Inquip (Dennis Collins and Frank Davis), CDM, Ardaman and FDEP.

4.0 PROJECTED WORK FOR NEXT WEEK

Comanco:

- A written report was submitted by Comanco; they were not represented at the meeting.
- Continue 80-mil detail work at the Phase II stormwater ditch..
- Continue 60-mil liner installation at the Phase II stormwater pond.

Compass:

- Continue repairing washouts and watering grassed areas.
- Continue grading and compacting soil fill in the Phase I stormwater ditches, up to structure no. 9.
- Re-seed NGS-S east and south gypsum slopes where erosion repairs have been completed. Also re-dolomite and re-seed bare areas at the Relief Ditch north end.
- Start silt fencing and gas line crossings at Gulfstream II.

Moretrench

- Continue fine grading fine grading the Phase II stormwater pond.
- Start grading gypsum on the NGS north slope.

CDM

- Start mud-waving along the northern edge of the SCP-S cap.
- Continue gypsum sediment removal from the Phase II stormwater ditches.
- Continue NGS-N washdown and sludge removal.
- Continue hauling soil and grading the NGS-N stormwater pond.
- Continue dredging the SCP-N (Dredge America).
- Start NCP slurry wall extension (Inquip).

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 drawing of as-built surveys was last updated by Edgemon on 1/17/07 through station 99+80 (end of ditch) - a hard copy was provided by CDM to Ardaman at the meeting.

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 06-110A	Page 3 of 5
	Meeting Date: <u>1/18/07</u>	
	Report No: <u>96</u>	Report Date: <u>1/24/07</u>
CLOSURE CONSTRUCTION - PHASE I OGS SLOPES, PHASE II NGS SLOPES AND SCP	Project Address: 13300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee County	

- CDM/Edgemon also continued as-built surveys in the same manner for the Phase II stormwater pond and liner subgrade as the work progresses by Comanco. A composite drawing of as-built surveys was last updated by Edgemon on 1/17/07 through station 111+00 - a hard copy was provided by CDM to Ardaman at the meeting.
- Edgemon as-built surveyed the 200-foot long panel drain just installed in the Phase I OGS west ditch north of inlet structure no. 9. A copy of the survey, dated 1/17/07, was provided by CDM to Ardaman at the meeting.
- CDM/Dredge America provided an ACAD file of the SCP-N latest sludge survey to Ardaman via email on 12/18/06; Ardaman indicated via email to CDM on 12/22/06 that a true 3-D CAD file is needed - Ardaman has received the 3D file and has identified some potential elevation discrepancies. Ardaman will recommend some check points via email.
- CDM provided a copy of Edgemon's 12/20/06 as-built survey of the OGS south dike to Ardaman on 1/4/07. CDM requested on 1/11/07 that Ardaman review survey data on the crest road and south slope. Ardaman responded by email on 1/16/07 with a summary of the data and out-of-spec locations.

6.0 PROJECT SCHEDULE

- No workdays were lost to rain this reporting period.
- The project schedule was not discussed. CDM was requested to submit the next update by email no later than 1/23/07, so that parties have an opportunity to review the schedule prior to the meeting.
- Compass is still awaiting approval on permits for the Gulfstream II borrow area. Compass met with Gulfstream on 1/11/07 to discuss site preparation.
- Weekend work schedule: Dredge America 24 hrs - 7 days/wk, Inquip 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).

- Bentonite certifications by Inquip were submitted to Ardaman for approval by CDM via email on 1/17/07. Ardaman indicated by email on 1/17/07 that the submittal was acceptable as received.
- Grout mix proposed by Terra Firma was submitted to Ardaman by CDM for approval by email on 1/15/07, for concrete uniform section mats in Phase I ditches (Rinker mix no. 1255697 for 3000 psi grout). Ardaman indicated by email on 1/15/07 that the submittal was acceptable as received.

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

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 06-110A	Page 4 of 5
	Meeting Date: <u>1/18/07</u>	
	Report No: <u>96</u>	Report Date: <u>1/24/07</u>
CLOSURE CONSTRUCTION - PHASE I OGS SLOPES, PHASE II NGS SLOPES AND SCP	Project Address: 13300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee County	

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. 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 will complete this work which was included in the scope of the previously executed change order that involved installation of additional panel drains.)
- 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 were distributed at the meeting.
- Ardaman provided hard copies and a CD for Phase II Slope Closure drawing revisions on 12/14/06 as follows: C-1, revision 2, and D-2, revision 1, both dated 12/13/06.

Quality Control Activities

- Ardaman had 7 technicians on site this reporting period.
- In-place gypsum/soil density tests
 - Phase I slope closure - no change - 945 passing, none failing, none pending
 - Phase II slope closure - 324 passing, 1 failing, none pending
- In-place soil fill density tests
 - OGS reservoir slope cover - no change - 59 passing, none failing, none pending
 - Phase I stormwater ditches - 6 passing, none failing, none pending
- Liner anchor trench density tests
 - Phase II stormwater ditch 80-mil - no change - 57 passed, none failing, none pending
 - Phase II stormwater pond 60-mil - not started as yet.
- Liner seam destructive testing (DT's)
 - Phase II stormwater ditch 80-mil - 49 marked, 47 passing, none failing, 2 pending. A summary of DT testing was last updated on 1/3/07 (revision 8) and was distributed at the 1/4/07 meeting
 - Phase II stormwater pond 80-mil - 14 marked, 1 passing, none failing, 11 pending

Miscellaneous

- Rainfall: no rainfall has been reported by CDM since 1/7/07.
- CDM and Ardaman continue to monitor seepage flow at the Granddaddy Boil location.
- As reported at the 12/7/06 meeting, existing soil cover thickness was measured by Ardaman and found to be deficient at several locations along the perimeter roads around the OGS-N and OGS-S Caps on 12/4/06. It was requested at the 12/14/06 meeting that the soil cover be restored to at least 22"; Compass indicated that this will be done when full-scale hauling from the Gulfstream II borrow area starts.
- Regarding soil cover placement by Compass in the Phase I stormwater ditch, a "Second Compass cut liner incident report" was submitted by CDM to FDEP on 1/17/07. The report describes an incident which occurred the same day while grading for a fabrifform/rip-rap structure in the OGS north ditch, and indicates that Compass has agreed to use manual labor when fine grading soil cover in close confines such as sump areas.

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 06-110A	Page 5 of 5
	Meeting Date: <u>1/18/07</u>	
	Report No: <u>96</u>	Report Date: <u>1/24/07</u>
CLOSURE CONSTRUCTION - PHASE I OGS SLOPES, PHASE II NGS SLOPES AND SCP	Project Address: 13300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee County	

Acceptances

- On 1/16/07, subgrade for liner installation, Phase II north stormwater pond, from station 126+00 to 121+00.
- On 1/17/07, subgrade for liner installation, Phase II north stormwater ditch, from station 101+00 to 99+80. This acceptance completes subgrade for liner installation, Phase II stormwater ditches.
- On 1/18/07, subgrade for liner installation, Phase II north stormwater pond, from station 121+00 to 118+00.

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 and FDEP also discussed last week. CDM indicated that the gravel work should start about 2 weeks after soil cover work is resumed.
- A tabulation for grassing work to date was received by CDM from Compass, and forwarded to FDEP on 10/2/06. CDM provided an update with acreage information to Ardaman by email on 12/13/06. Additional information is necessary, for uncompleted activities as well as those being invoiced, in order to utilize this table to substantiate invoice quantities - Ardaman met with CDM and Compass on 1/1/07 to review preliminary boundary maps and quantities prepared by Ardaman.
- A change order request is in progress by CDM for changes to the SCP (including dredging) and the NCP slurry wall. Comanco provided liner quantities to CDM and Ardaman by email on 12/4/06 - Ardaman's last response to Comanco was by email on 12/22/06. CDM is presently reviewing language and finalizing quantities.

10.0 COMMENTS by FDEP

- FDEP was not represented at the meeting.

11.0 COMMENTS by HRK

- HRK was not represented at the meeting.