

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 06-110A	Page 1 of 5
		Meeting Date: <u>2/8/07</u>	
		Report No: <u>99</u>	Report Date: <u>2/14/07</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: Nadim Fuleihan, Rob Werner, Tony Deatherage FDEP: John Coates, Sam Zamani, Fred Noble CDM: Dean Carter, Mike Cruz, Jean Wilson, Steve Solters, George Curry Comanco: Paul Moore Compass: Jeremy Giles, Tim Morrow Moretrench: Ralph Remmert, Mike Panny HRK: Ivan Nance			

COPY TO:

FDEP: Phil Coram, Sam Zamani, John Coates, Fred Noble
 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, February 15, 2006 at 9:00 am

1.0 REVIEW MINUTES OF PREVIOUS MEETING

- 8.0 Technical Items - Quality Control Activities: Phase II Stormwater Pond was incorrectly noted as 80-mil, stormwater pond liner is 60-mil.

2.0 SAFETY

- No safety incidents were reported.

3.0 SUMMARY OF WORK PERFORMED

Comanco:

- Completed Phase II stormwater pond 60-mil liner installation including detail work - 404,819 sf total.
- Completed punchlist repairs for Phase II 80-mil Stormwater Ditch.
- Equipment: 1 four-wheeler, 1 loader, 1 track crawler dump, 1 pick-up truck, 1 Q/C trailer, 5 generators - 5 personnel.

Compass:

- Well Water usage - 40,000 gallons since last report.
- Continued grading soil cover in the Phase I stormwater ditches - no soil fill was hauled since last report.
- Continued installing silt fence at Gulfstream II borrow area.
- Restored soil cover thickness where needed on the lined perimeter roads around the OGS Cap Areas.
- Restored gypsum slope grades within the area of the former access ramp on the east slope of the NGS-S.
- Equipment: 6 dump trucks, 2 water trucks, 2 D6 dozers, 1 D8 dozer, 2 excavators, 1 motor grader, 3 club carts, 1 ditch witch - 8 personnel. Some equipment (e.g., dump trucks) is not currently being used.

Moretrench

- Completed grading the NGS-S Cap north and east slopes.
- Started grading the NGS-N north slope.
- Equipment: 1 dozer, 1 compactor, 1 backhoe - 1 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>2/8/07</u>	
	Report No: <u>99</u>	Report Date: <u>2/14/07</u>
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

CDM

- Continued demucking and dewatering SCP-S west compartment.
- Continued riasing the NCP perimeter dike including placing geotextile atop the extended cut-off wall, pulling soil from the inboard temporary work pad onto dike crest to cover geotextile, and stripping vegetation from the outbaord west dike slope.
- Continued sizing rip-rap.
- Equipment: 2 dump trucks, 2 dozers, 2 excavators, 1 6-inch Godwin pump (switched out for the 4-inch diaphragm), 1 backhoe/loader equipped w/hydraulic hammer - 9 personnel.
- Dredge America continued dredging the SCP-N compartment.
- Inquip completed installation of the NCP slurry wall extension.
- Materials received this week: 1,677.1tons of gravel; 21,600 square yards (27 rolls) of non-woven geotextile.

4.0 PROJECTED WORK FOR NEXT WEEK

Comanco:

- Complete any punch-list items from final inspection of 60-mil Stormwater Pond final inspection.
- Complete Site clean-up and Demobilize (Planned for Friday, 2/9/07).

Compass:

- Continue repairing washouts and watering grassed areas.
- Continue grading and compacting soil fill in the Phase I stormwater ditches.
- Re-disk and re-seed east slope of NGS-S.
- Start sod installation on the soil cover in the NGS-N west ditch.
- Continue silt fencing at Gulfstream II.

Moretrench

- Continue grading the NGS-N north slope.

CDM

- Continue demucking and dewatering SCP-S west compartment.
- Continue sizing rip-rap and prepare for rip-rap pad installations.
- Continue raising the NCP perimeter dike to design grades.
- Continue removal of gypsum sediment from the lined Phase II ditches.
- Continue dredging the SCP-N (Dredge America).

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 1/18/07 meeting.
- 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 1/29/07 through station 101+00 (west end of pond) - a hard copy was provided by CDM to Ardaman at the 2/1/07 meeting.
- Regarding the CDM/Dredge America/Land and Sea pre-dredge survey results, 3D ACAD files were received by Ardaman by email on 1/24/07. A telephone conference call took place on Friday 2/2/07 attended by CDM, Dredge

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 06-110A	Page 3 of 5
	Meeting Date: <u>2/8/07</u>	
	Report No: <u>99</u>	Report Date: <u>2/14/07</u>
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

America, Land and Sea, Ardaman and DEP discuss apparent discrepancies the survey. Land and Sea will re-check survey reference based on the original Rook's survey references on site (NGVD 29).

6.0 PROJECT SCHEDULE

- 1 workday was lost to rain this reporting period.
- An updated project schedule was distributed by CDM at the meeting (and by email on 2/6/07). CDM, Ardaman and DEP discussed the schedule after the construction meeting. That discussion focused on the sequence of soil cover placement in the ditches, stormwater pond, relief ditch, etc., timing for construction of access ramps from Gulfstream II to the NGS-S crest road, handling of sludge from in the SCP-S west compartment, and sequence for grading, drain and liner installation within the southern portion of the SCP-S.
- Regarding status of the Compass Gulfstream II borrow area, Compass expects to be able to start recharge ditch excavation within the next two weeks. Compass will notify Ardaman upon completion of stripping/grubbing along the recharge ditch alignment so that the soil surface can be inspected prior to excavating materials intended for use at the site..
- Weekend work schedule: Dredge America 24 hrs - 7 days/wk, Moretrench 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).

- No shop drawings or submittals are awaiting approval at this time.

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.

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 06-110A	Page 4 of 5
	Meeting Date: <u>2/8/07</u>	
	Report No: <u>99</u>	Report Date: <u>2/14/07</u>
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		

- 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 5 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 - 331 passing, 3 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 - no change - 17 passing, none failing, none pending
- Liner anchor trench density tests
 - Phase II stormwater ditch 80-mil - no change - 57 passing, none failing, none pending
 - Phase II stormwater pond 60-mil - no change - 17 passing, none failing, none pending.
- Liner seam destructive testing (DT's)
 - Phase II stormwater ditch 80-mil - no change - 49 marked, 49 passing, none failing, none pending. DT testing is complete for this phase of the work.
 - Phase II stormwater pond 60-mil - 47 marked, 47 passing, none failing, none pending. A summary of DT testing dated on 2/8/07 (revision 1) was distributed at the meeting. DT testing is complete for this phase of the work.
- NCP slurry wall soil/bentonite backfill permeability tests - 17 passing, none failing, none pending.

Miscellaneous

- Rainfall: Report for 1/28/07 to-date will be updated next meeting.
- CDM and Ardaman continue to monitor seepage flow at the Granddaddy Boil location and conditions at the site of the repair in the south dike of the SCP-N.
- Ardaman provided an electronic copy (Drawing C-1) of the Grading Plan for closure of two plant areas within the gypsum stack system watershed for CDM's use in developing quantity estimates.
- A conference call between CDM, Ardaman (Nadim Fuleihan and Tom Leto) and FDEP (Sam Zamani) took place after the 2/1/07 construction meeting to discuss the completed repair of the critical condition discovered 1/31/07 in on the SCP-N south dike, and to review operating guidelines for the dredging operation. The agreed-upon operating guidelines are documented in an email from Ardaman dated 2/1/07.

Acceptances

- An inspection of the Phase II slope closure stormwater ditch 80-mil liner installation was conducted after the 2/1/07 meeting, and an inspection of the Phase II stormwater ditch was conducted after the 2/8/07 meeting. All punchlist items

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 06-110A	Page 5 of 5
	Meeting Date: <u>2/8/07</u>	
	Report No: <u>99</u>	Report Date: <u>2/14/07</u>
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	

were completed and inspected by the end of 2/8/07. Ardaman indicated acceptance of the Phase II liner in a 2/9/07 email to the Department.

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. See 10.0 Comments by FDEP for more.
- 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. Ardaman updated their boundary map and provided a copy by email to CDM/Compass at their request. See 10.0 Comments by FDEP for more.
- 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.
- Regarding grassing invoicing, it was requested at the 1/25/07 meeting that both Ardaman and Compass/CDM submit boundary mapping and estimated quantity tabulations to the Department for comparison with the BAFO.
- Regarding CDM's pending change order request related to the gravel filter erosion protection yet to be placed along the inboard slope of the access road at the toe of the OGS-S slope cover (and for the gravel along the toe of future soil slope cover in the remaining three lined compartments), the Department indicated at the 1/25/07 meeting that a basis for a change order has yet to be established. The Department further indicated that CDM/Compass could either proceed with gravel installation at the entire perimeter of the toe road within their currently approved scope of work, or postpone the installation pending further discussions or actions toward resolution. It was also stated that the Department is willing to discuss assignment of a value to the incomplete work (i.e., placement of the gravel materials) that can be deducted from the contract soil cover price for the purpose of computing retainage release for associated in-place soil materials. CDM/Compass agreed that the access ramps to the OGS-S soil cover toe road would be left in place if they decide to postpone installation of the gravel materials.

11.0 COMMENTS by HRK

- A pre-bid site visit for plant demo contractors took place last Tuesday. The quantity of TENORM materials intended for disposal in the NGS-N Relief Ditch will depend to some extent of the bidder's plans for material handling.