

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 06-110A	Page 1 of 5
		Meeting Date: <u>2/1/07</u>	
		Report No: <u>98</u>	Report Date: <u>2/6/07</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: Rob Werner, John Cameron, Tony Deatherage FDEP: 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:			

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, February 8, 2006
Site Tour at 8:30 am followed by Construction
and CDM Operations Meetings

1.0 REVIEW MINUTES OF PREVIOUS MEETING

- 3.0 Summary of Work Performed - CDM - the volume of material dredged by Dredge America was incorrectly recorded - the actual reported quantity as of 1/23/07 was 68,725 cy.

2.0 SAFETY

- No safety incidents were reported.

3.0 SUMMARY OF WORK PERFORMED

Comanco:

- Continued Phase II stormwater pond 60-mil liner installation - 389,779 sf total as of 1/30/07. The pond was "blackened-in" on 1/31/07.
- Equipment: 1 excavator, 1 loader, 1 track crawler dump, 2 pick-up trucks, 1 Q/C trailer, 5 generators - 11 personnel.

Compass:

- Well Water usage - 150,000 gallons since last report.
- Watered seeded and sodded areas.
- 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.
- Equipment: 6 dump trucks, 2 water trucks, 2 D6 dozers, 1 D8 dozer, 2 excavators, 1 motor grader, 3 club carts, 1 ditch witch - 9 personnel. Some equipment (e.g., dump trucks) is not currently being used.

Moretrench

- Completed fine grading the Phase II stormwater pond.

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- Started grading the NGS-S Cap north slope.
- Started repairs to the critical piping condition discovered 1/31/07 in the south dike of the SCP-N Compartment.
- Equipment: 1 dozer, 1 compactor, 1 backhoe - 1 personnel.

CDM

- Discontinued NGS-N wash-down and sludge removal - the spray evaporation field is presently operating.
- Continued demucking and dewatering SCP-S west compartment. Started removing sludge along north side of the SCP-S west cap and replacing with fill.
- Hauled 60 tons of gravel and 150 cy of gypsum for repair of the critical condition in the SCP-N south dike.
- 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 (added since last report) - 11 personnel.
- Dredge America continued dredging the SCP-N compartment. Volume of dredged material was estimated at 94,741 as of 1200 hrs on 1/29/07.
- Inquip continued installation of the NCP slurry wall extension. Excavation and backfill had progressed to stations 5+40 and 7+00, respectively, as of 1/31/07.
- Materials received this week, all for SCP Phase II closure: 397.64 tons of gravel; 1 36-inch HDPE manhole no.

4.0 PROJECTED WORK FOR NEXT WEEK

Comanco:

- Continue 80-mil detail and anchor trench work at the Phase II stormwater ditch..
- Continue 60-mil detail and anchor trench work at the Phase II stormwater pond.
- Demobilize

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 at Relief Ditch north end.
- Continue silt fencing at Gulfstream II.

Moretrench

- Continue grading the NGS-S Cap north slope.
- Complete repair of the SCP-N south dike.

CDM

- Continue demucking and dewatering SCP-S west compartment. Continue removing sludge along north side of the SCP-S west cap and replacing with fill.
- 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 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

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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.

- 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 provided CDM with comments and recommendations by email on 1/24/07. A telephone conference call is scheduled for Friday 2/2/07 to discuss apparent discrepancies the survey.

6.0 PROJECT SCHEDULE

- 1 workday was lost to rain this reporting period.
- The project schedule will be updated and distributed by email on 2/6/07 by CDM.
- Regarding status of the Compass Gulfstream II borrow area, Compass had no new information - they had indicated at the 1/25/07 meeting that the ERP permit was expected from SWFWMD on 1/29/07, followed by the WUP permit a few days later. Present plan is still to start hauling from Gulfstream II at reduced rates on 2/12/07, and ramp up to full production in about 3 weeks.
- 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).

- No shop drawings or submittals are awaiting approval at this time.
- At CDM's request, additional detail was provided by Ardaman by email on 1/30/07 for the 24-inch riser/sump manhole located at the southeast corner of the SCP.

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.
- 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 8 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 - no change - 327 passing, 4 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 - 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 - 8 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. A summary of DT testing was updated on 2/1/07 (revision 9) and was attached to the 1/25/07 meeting minutes. DT testing is complete for this phase of the work.
 - Phase II stormwater pond 80-mil - 47 marked, 20 passing, none failing, 25 pending
- NCP slurry wall soil/bentonite backfill permeability tests - 11 passing, none failing, 6 pending

Miscellaneous

- Rainfall: 2.22" of rainfall was reported by CDM for the period from 1/24/07 through 1/27/07.
- 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.
- Ardaman provided hard copies (Drawing C-1, undated) of a preliminary Grading Plan for closure of two plant areas within the gypsum stack system watershed. HRK was requested to review and comment at the 1/25/07 meeting.
- The construction meeting was preceded by a conference call with Ardaman (Nadim Fuleihan and Tom Leto) and FDEP (Sam Zamani) to discuss 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.

Acceptances

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- On 1/26/07, subgrade for liner installation, Phase II north stormwater pond, from station 111+00 to 108+00.
- On 1/29/07, subgrade for liner installation, Phase II north stormwater pond, from station 108+00 to 101+50.
- On 1/31/07, subgrade for liner installation, Phase II north stormwater pond, from station 101+50 to 101+00 (west end of the stormwater pond).
- An inspection of the Phase II slope closure stormwater ditch 80-mil liner installation was scheduled for after the 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 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.
- Change Order No. SP644-017 (revised gypsum fill quantity for the NGS-N Relief Ditch and support and liner work related to installation of a temporary piezometer in the OGS-S storm water ditch) was signed by the Department on 1/25/07 and was distributed by email on 1/26/07.
- 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

- HRK was not represented at the meeting.