

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 06-110A	Page 1 of 4
		Meeting Date: <u>3/29/07</u>	
		Report No: <u>106</u>	Report Date: <u>4/4/07</u>
Project Name:	CLOSURE CONSTRUCTION - OGS SLOPES, TOP CAPS & RELIEF DITCH, SCP-S AND PHASE II - NGS SLOPES		Project Address: 300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee County
ATTENDEES: Ardaman: Rob Werner (telecon), John Cameron, Tony Deatherage FDEP: CDM: Dean Carter, Steve Solters, Mike Cruz, Jack Partin, George Curry, Jean Wilson Comanco: Compass: Dan Felton 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, April 5, 2007
Site Tour at 8:00 am followed by
Construction/Engineering and CDM Operations Meetings at 9:00 am

1.0 REVIEW MINUTES OF PREVIOUS MEETING

- No corrections were reported.

2.0 SAFETY

- No safety incidents were reported.

3.0 SUMMARY OF WORK PERFORMED

Compass:

- Well Water usage - 55,000 gals. since last report. Watered seeded and sodded areas, worked on sprinkler systems.
- Continued seeding (complete) and mulching Phase II NGS gypsum slopes from former ramp location on east side to the NGS-N northwest corner.
- Continued sock drain installation at Gulfstream II borrow area.
- Equipment: 6 dump trucks, 1 water truck, 2 D6 dozers, 1 D8 dozer, 2 excavators, 1 motor grader, 2 club carts - 6 personnel. Some equipment (e.g., dump trucks) is not currently being used.

CDM

- Continued dewatering SCP-S west compartment; started demucking, filling and grading.
- Continued installation of the 8-inch HDPE sewer line; 2,650' is welded and pressure-tested to date.
- Equipment: 2 dump trucks, 1 loader, 2 dozers, 2 excavators, 1 compactor, 1 water truck, 1 4-inch double diaphragm pump - 4 personnel. Mobilized Terex dump truck, Ingersoll Rand sheepsfoot compactor, and G&K watertruck since last report.
- Materials received: for the SCP Phase II Closure seepage collection drain, 2,800' 12"HDPE SDR 21 pipe, 488.73 tons Alabama buff gravel.

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4.0 PROJECTED WORK FOR NEXT WEEK

Compass:

- Complete mulching (crimping) the NGS-N north slope.
- Water and repair seeded and sodded areas.
- Continue sock drain installation at Gulfstream II borrow area.
- Resume sodding the Phase II Slope Closure OGS west ditch.

CDM

- Continue dewatering SCP-S west compartment; also demucking, filling and grading
- Continue sewer line installation - excavate and bury pipe as indicated on drawings; tie-in (subcontractor Land Development) with Manatee County force main when permits received from FDEP and FDOT.
- Grass the NCP dike (subcontractor Keller Grassing).
- CDM is presently looking for 4 additional equipment operators.

5.0 SURVEY NOTES

- Regarding the CDM/Dredge America/Land and Sea survey, CDM received a post-dredge survey on 3/14/07 by Dredge America/Land and Sea for "top-of-remaining-sludge," and another on 3/20/07 for "hard-bottom." CDM forwarded electronic files by email to FDEP and Ardaman on 3/28/07.
- CDM/Edgemon completed the as-built survey of the NCP dike crest road and slopes on 3/6/07; Ardaman received an electronic ACAD file of the 3/5/07 survey, and also the final 3/6/07 survey as requested.
- Monitor well MW-9 was located by Clements - see 8.0 Technical Items, Miscellaneous for more.

6.0 PROJECT SCHEDULE

- No workdays lost to rain this reporting period.
- CDM will update and distribute the project schedule by email on 4/3/07.
- Regarding permitting status of the Gulfstream II borrow area, Compass is still waiting on a Manatee County operating permit before hauling borrow material.
- Weekend work schedule: CDM 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).

- CDM/Comanco were requested to submit panel placement drawings for the SCP Phase II liner.

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

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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. 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). Supplemental drawings were distributed at the meeting to clarify installation of the SCP-S seepage collection drain system between points between points nos. 14 and 23 (end of drain).
- 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 2 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 - 336 passing, none 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 soil cover - 40 passing, none failing, none pending

Miscellaneous

- Rainfall was reported by CDM at 0.00" from 3/21/07 through 3/26/07.
- CDM and Ardaman continue to monitor the Granddaddy Boil location and at the site of the SCP-N south dike repair.
- CDM requested Ardaman to repair MW-9.

Acceptances

- On 3/22/07 Task C3a Phase I Slopes - additional panel drains

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- On 3/22/07 Task C3b Phase II Slopes - NGS gypsum earthwork
- On 3/22/07 Phase I Stormwater Ditches, soil cover from sta 163+30 to 146+00
- On 3/29/07 Phase I Stormwater Ditches, soil cover from sta 146+00 to 129+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 last discussed by conference call on 2/13/07 between FDEP, CDM and Ardaman. [Ardaman forwarded a sketch to CDM showing a potential cross section revision that may be considered to reduce the required gravel quantity via email on 2/23/07.] It has been agreed that the existing access ramps will be left in place until this work is done.
- 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; an ACAD file was sent by email on 2/14/07. Ardaman estimate was completed; Compass' estimate was submitted to CDM on 3/28/07 and forwarded to FDEP.
- CDM requested Compass at the 2/22/07 meeting to provide a cost proposal for closure work in designated areas adjacent to the plant. Compass provided an order-of-magnitude estimate to CDM on the day of the meeting; CDM is reviewing.
- A meeting was held after the 3/15/07 construction meeting with FDEP (via telecon), Ardaman Comanco and CDM to discuss the scope and general installation requirements for the SCP Phase II seepage collection drains.

10.0 COMMENTS by FDEP

- FDEP was not represented at the meeting.
- The Dispute Resolution Agreement - Remaining Cooling Pond Closures was signed and forwarded by FDEP to CDM by email on 3/28/07.

11.0 COMMENTS by HRK

- HRK was not represented at the meeting.