

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 06-110A	Page 1 of 4
		Meeting Date: <u>5/24/07</u>	
		Report No: <u>114</u>	Report Date: <u>5/31/07</u>
Project Name:	CLOSURE CONSTRUCTION - OGS & NGS SLOPES, RELIEF DITCH, SCP-S AND SCP-N		Project Address: 300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee County
ATTENDEES: Ardaman: Nadim Fuleihan, Rob Werner, John Cameron, Tony Deatherage FDEP: John Coates, Sam Zamani CDM: Dean Carter, Mike Cruz, Jack Partin, Jean Wilson, George Curry, Steve Solters Comanco: Paul Moore Compass: Mike Slovensky, Jeremy Giles HRK: Art Roth			

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, May 31, 2007
Construction/Engineering Meeting at 9:00 am

1.0 REVIEW MINUTES OF PREVIOUS MEETING

- No corrections were noted.

2.0 SAFETY

- No safety incidents were reported..

3.0 SUMMARY OF WORK PERFORMED

Compass:

- Well Water usage - none since last report.
- Water seed and sod areas; installed additional sod at the Phase I OGS-S west stormwater ditch.
- Continued hauling soil from the Gulfstream II borrow area; total hauled as of 5/22/07 was reported at 28,820 cy (estimated by truck count).
- Continued placing soil cover on liner in the Phase I south stormwater ditch liner.
- Started work on the north access ramp across the NGS-S east stormwater ditch.
- Equipment: 6 dump trucks, 1 water truck, 3 D6 dozers, 2 excavators, 1 motor grader, 2 club carts - 15 personnel. Some equipment (e.g., dump trucks) is not currently being used. The D-8 dozer was replaced with a D-6.

Comanco

- No work was performed this reporting period.

CDM

- Continued grading and compacting the SCP-S west compartment.
- Loaded and hauled excess fill from the SCP-S to the SCP-N.
- Continued excavating dewatering ditches and stockpiling sludge in the SCP-N; built access ramp at the NW corner.
- Loaded and hauled sludge from the SCP-N to the NCP.
- Equipment: 4 dump trucks, 1 loader, 4 D6 dozers, 3 excavators including 1 long-stick, 2 compactors, 2 water trucks, 1 4-inch double diaphragm pump, 3 6-inch service pumps, 1 2-inch pump, 2 plate compactors - 15 personnel.

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 06-110A	Page 2 of 4
	Meeting Date: <u>5/24/07</u>	
	Report No: <u>114</u>	Report Date: <u>5/31/07</u>
CLOSURE CONSTRUCTION - OGS & NGS SLOPES, RELIEF DITCH, SCP-S AND SCP-N		Project Address: 13300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee County

4.0 PROJECTED WORK FOR NEXT WEEK

Compass:

- Water and repair seeded and sodded areas; begin repairs at the NGS-N north slope.
- Grass the NCP berm road and slopes.
- Continue hauling soil from the Gulfstream II borrow area and placing soil cover on the Phase I stormwater ditch liner; also soil cover and panel drain in the Phase II stormwater ditch.

Comanco:

- Start mobilization for the SCP liner installation on 5/29/07. Liner deployment could start 5/30/07, pending subgrade as-built survey and acceptance.
- Repair liner damaged at several locations as directed - priority is NGS south ditch.

CDM

- Continue grading and compacting the SCP-S west compartment.
- Continued excavating dewatering ditches and stockpiling sludge in the SCP-N.
- Continue loading and hauling sludge from the SCP-N to the NCP and to the Sludge Storage Area.
- Continue preparation of excess material stockpile area. See 8.0 Technical Items - Miscellaneous for more.
- Installed a stainless submersible pump (90 gpm capacity) in the SCP-S 48-inch manhole #1.

5.0 SURVEY NOTES

- CDM/Edgemon surveyed the as-built elevation/width of the NGS-N north, east and south crest roads, and provided a hard copy of the survey to Ardaman at the 5/10/07 meeting; a review is in progress.
- CDM/Edgemon as-built survey a portion of the SCP-S for liner subgrade on 5/18/07; the survey was FAX'd to Ardaman on 5/21/07 and returned the same day to CDM for corrections. Follow-up surveys and corrections are in progress.

6.0 PROJECT SCHEDULE

- No workdays were lost to rain this reporting period.
- CDM updated and distributed the project schedule by email on 5/22/07, and it was distributed and discussed at the meeting. CDM indicated that the schedule has been updated to reflect current progress, and commented on 2 items of interest - SCP liner should start about 5/30/07, and SCP drains about 6/4/07. See 10.0 Comments by FDEP for more.
- Weekend work schedule: no work is planned on the Memorial 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).

- Shop drawings were submitted by CDM/Hanson Pipe & Precast by email on 5/17/07 for the SCP inlet structures. The drawings were reviewed by Ardaman and returned to CDM by email on 5/21/07 for corrections as noted.

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.

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 06-110A	Page 3 of 4
	Meeting Date: <u>5/24/07</u>	
	Report No: <u>114</u>	Report Date: <u>5/31/07</u>
CLOSURE CONSTRUCTION - OGS & NGS SLOPES, RELIEF DITCH, SCP-S AND SCP-N		Project Address: 13300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee County

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.
- 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.
- 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 (hard copies and CD's). Additional signed large drawings sets were distributed at the meeting. Supplemental drawings were distributed at the 3/29/07 meeting to clarify installation of the SCP-S seepage collection drain system between point nos. 14 and 23 (end of drain). It was noted at the 4/5/07 meeting that the east end of the drain may be shortened to accommodate installation of a cut-off wall that is being considered in conjunction with design discussions related to the proposed Buckeye Road groundwater collection drain.
- 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.
- Drawings C-1, C-2, D-1, D-2 and D-3 were distributed at the 4/5/07 meeting for the First 50 percent - Plant Watershed Areas. **Drawing C-1, revision 1 and a CD were distributed at the meeting for use as an interim grading plan.**
- Ardaman distributed a detailed grading plan figure at the 5/10/07 meeting to clarify the transition from typical berm section to outlet pipe profile at the locations of the SCP cap outlets; **additional clarifications were sent by email to CDM on 5/21/03 and 5/23/07.**

Quality Control Activities

- Ardaman had 4 technicians on site this reporting period.
- In-place gypsum/soil density tests
Phase II SCP closure - 66 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 - no change - 40 passing, none failing, none pending.
- SCP liner conformance testing was updated on 5/23/07 (revision 1); 31 rolls of 40-mil smooth and 25 rolls of 40-mil textured have been conditionally approved to-date.

Miscellaneous

- Rainfall was reported by CDM at 0.00" from 5/16/07 through 5/22/07.
- CDM and Ardaman continue to monitor the Granddaddy Boil location.

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 06-110A	Page 4 of 4
	Meeting Date: <u>5/24/07</u>	
	Report No: <u>114</u>	Report Date: <u>5/31/07</u>
CLOSURE CONSTRUCTION - OGS & NGS SLOPES, RELIEF DITCH, SCP-S AND SCP-N		Project Address: 13300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee County

- It was noted at the 4/19/07 meeting that there is extensive erosion damage on the NGS-N north gypsum slope. Compass had indicated at that time that they would repair and re-seed with their own personnel. Compass was requested to provide qualifications to perform the seeding work. Compass indicated at the 5/24/07 meeting that they would proceed with repairs and re-seeding.
- CDM indicated at the meeting that they started use of treated water this week for dust control and construction (i.e., moisture conditioning for compaction) within the interior areas of the SCP.
- Protection of the twin 18" gate valves on the NGS-N outlet pipeline and plans for final grading of the existing low area around the valves at the northwest corner on the NGS-N were discussed at the 5/17/07 meeting. Ardaman will provide a sketch.
- Piezometer PZ-104 was abandoned and grouted by Ardaman on 5/23/07. CDM requested Ardaman to extend the top-of-casing on Piezometer 201A located on the OGS south perimeter road.
- Regarding the excess material stockpile area on the east side of the SCP-N, Ardaman indicated that the final footprint of the stockpile will be determined as the actual quantity of excess materials becomes more apparent. If the stockpile volume is less than planned, then the western extent of the stockpile will be reduced (but not the height). In any case, the location of the relief drain will not be changed.

Acceptances

- None since last report.

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 conference call was held on 4/10/07 between CDM, Compass and Ardaman to discuss grassing tabulations and boundaries. Tabulations were summarized by Ardaman and reviewed at the 4/12/07 construction meeting, at which Compass was requested to review amended gypsum grassing acres, and to refine each of their estimates to an accuracy of 0.1 acre.
- CDM received a preliminary cost proposal from Compass for closure of the First 50 percent - Plant Watershed Area, which was forwarded to FDEP and discussed at the 4/26/07 Program Manager's meeting. There are still unresolved pricing issues regarding the power lines, well pump, etc.
- CDM indicated that plans have been scrapped to accept soil materials from Hillsborough County's Central and South Service units.
- CDM/Comanco submitted preliminary quantity estimates for crest road closure. (Ardaman quantity estimates were submitted to DEP via email 5/30/07.)

10.0 COMMENTS by FDEP

- The Department requested that CDM review and confirm projected watershed removal dates, so that Ardaman may update water balance projections. CDM confirmed dates as indicated in the schedule updated on 5/22/07 and distributed at the meeting.
- Change order SP644-019 (Year 2 water adjustments, MW-9 repair, SCP drains) was executed by FDEP and distributed by email on 5/23/07.
- Projected schedule dates for soil cover will be discussed at the Program Manager's meeting.

11.0 COMMENTS by HRK

- HRK indicated that they are waiting on a schedule and safety plan from their demolition contractor.