

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 05-110A Meeting Date: <u>7/27/06</u> Report No: <u>71</u> Report Date: <u>8/2/06</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: Tom Leto, Rob Werner, John Cameron, Tony Deatherage FDEP: John Coates, Sam Zamani CDM: Dean Carter, Mike Cruz, George Curry, Steve Solters, Jean Wilson Moretrench: Steve Voytko, Mike Panny, Paul Davis, Ralph Remmert Comanco: Paul Moore Compass: Jeremy Giles, Tim Morrow		

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
 Moretrench: Al Schuman, Steve Voytko, Mike Panny, Nick Haddon, Ralph Remmert
 Comanco: Tom Topp, Paul Moore
 Compass: Tim Morrow, Jeremy Giles, Tom McSweeney

***Next Meeting is Scheduled for Thursday, August 3, 2006
 Construction/Engineering Meeting at 9:00 am***

1.0 REVIEW MINUTES OF PREVIOUS MEETING

No corrections were noted.

2.0 SAFETY

No incidents were reported.

3.0 SUMMARY OF WORK PERFORMED

Moretrench:

- Continued work on Phase II Slope Closure - continued finish grading the south ditch, and removed structure no. 3 (incorrectly fabricated) from the east ditch.
- Phase I Slope Closure - continued work to retrofit rip-rap structure depressions in the OGS north and west ditches - 3 of depressions have been excavated.
- Well Water usage - none since last report.
- Equipment: 3 D-6 dozers, 1 compactor, 1 excavator, one 6-inch hydraulic pump - 7 personnel.

Comanco:

- Continued liner deployment and detail work in the SCP-S Pond Water Sump; as of 7/5/06 liner deployed totaled 93,964 sf of 80-mil textured liner and 156,286 sf of 80-mil smooth liner.
- Continued preparation, liner installation and detail work to retrofit rip-rap structure depressions in the OGS north and west ditches.
- Equipment: 1 excavator, 2 3-inch pumps, 1 loader, 1 track crawler dump, 1 4x4 Honda 350 w/trailer, 2 pick-up trucks, 1 QC trailer, 5 generators - 21 personnel

Compass:

- Continued watering for dust control.
- Continued hauling and placing fill on the SCP-S Process Water Sump east dike; as of 7/20/06, 10,912 cy (by truck count estimate) were hauled and placed on the north and east dikes. Also completed installation of inlet structure #1 and outlet pipe, installed the 36-inch manhole/pump sump, and continued finish grading the pond bottom.

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- Repaired and re-seeded the OGS Cap slopes, and completed amending the NGS-S south and east slopes (subcontractor Tate Environmental) up to the access ramp on the east side.
- Well Water usage - 10,000 gallons since last report.
- Equipment: 2 dump trucks, 1 water wagon, 2 D-6 dozers, 2 excavators, 1 compactor, 1 Case dozer, 1 motor grader - 8 operators.

CDM

- Continued receiving soil fill material from L.A. Enterprises for construction of the Phase II Slope Closure perimeter dike (24,820 loose cy total as of 7/26/06). Also received 442 cy for the Phase I OGS north ditch.

4.0 PROJECTED WORK FOR NEXT WEEK

Moretrench:

- Continue work on Phase II Slope Closure - finish grading the south ditch and re-install structure no. 3.
- Continue work to retrofit rip-rap structure depressions in the Phase I stormwater ditches.

Comanco:

- Continue liner anchor trench compaction in the Phase I Slope Closure stormwater ditches.
- Continue liner deployment and detail work in the SCP-S Pond Water Sump.
- Continue work to retrofit rip-rap structure depressions in the Phase I stormwater ditches.
- Resume modifications to the NGS-N spray evaporation system (received pads; waiting on more polypropylene ties).
- Start liner deployment in the Phase II Slope Closure south stormwater ditch, pending subgrade acceptance.

Compass:

- Continue watering for dust control.
- Continue grading the SCP-S Process Water Sump dikes and pond bottom.
- Start grassing the NGS-S slopes (subcontractor Tate Environmental), pending pH testing by Ardaman.

5.0 SURVEY NOTES

- Compass/Edgemon surveyed the SCP-S Process Water Sump grades on 6/28/06, and the south and west borrow dikes on 6/29/06; a copy of the survey with take-up quantities was provided by CDM to Ardaman at the meeting. Ardaman requested an electronic ACAD version.
- An as-built survey by Moretrench/Edgemon dated 7/18/06, of the NGS-S south and east crest roads, was provided by CDM to Ardaman at the meeting.
- Compass/Edgemon performed as-built survey updates of the SCP-S Process Water Sump liner subgrade as the work progressed. As of 7/26/06, the dikes and pond bottom have been as-built west of north dike station 105+00 and south dike station 117+00.
- Moretrench/Edgemon provided as-built surveys of the OGS north ditch rip-rap depressions on 7/21/06 and 7/24/06; Moretrench was requested to incorporate the as-built data into the composite as-built for the Phase I Slope Closure stormwater ditches.

6.0 PROJECT SCHEDULE

- No workdays were lost to weather this reporting period.
- The project schedule was updated by CDM and distributed by email on 7/26/06. The updated schedule was distributed and discussed at the meeting, including activities impacted by demobilization of Moretrench to October 2006 on drain installation for the Phase II Slope Closure. CDM indicated that the feasibility of partial lining of the north stormwater pond is being discussed with subcontractors. See 10.0 Comments by FDEP for more.
- Weekend work schedule: Moretrench and Compass will work on Saturday.

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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).

- Comanco distributed GSE warranty letters by email on 7/24/06 to CDM and Ardaman for the Phase I and II Slope Closure stormwater ditches. The warranty letters are being reviewed by Ardaman and FDEP. (It was noted that initial review has raised several questions.)
- CDM distributed steel grating submittals by email on 7/21/06 to Ardaman for the SCP-S Process Water Sump and Phase II Slope Closure manholes. The submittals were approved by Ardaman by email on 7/24/06.
- CDM submitted a sketch by email on 7/24/06 to Ardaman to indicate modifications to the SCP-S Process Water Sump 36-inch manhole/pump sump outlet pipe.

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.
- 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. CDM was requested to provide a proposal for the extra work. Copies of these figures were attached to the electronic version of the meeting minutes.

Quality Control Activities

- Ardaman had 6 technicians on site this reporting period.
- Phase 1 Slope Closure in-place gypsum/soil density tests - no change - 943 tests passing, none failing, none pending.

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- Phase 2 Slope Closure in-place gypsum/soil density tests - 82 tests passing, 1 failing (station 108+50 toe road), none pending.
- SCP south compartment in-place gypsum/soil density tests - 145 tests passing, none failing, none pending.
- OGS-S slope cover in-place soil fill density tests - no change - 59 passing, none failing, none pending.
- SCP-S Process Water Sump liner seam destructive testing (DT's) - 25 marked, 18 passing, 7 pending. A summary of DT testing dated 7/27/06, revision 0, was distributed at the meeting
- Phase I stormwater ditch liner anchor trench density tests - no change - 62 passing, 1 failing, none pending.

Miscellaneous

- Rainfall: CDM reported 0.94 inches from 7/19/06 through 7/25/06.
- Regarding repairs to NGS-S liner damage, Ardaman distributed a location plan at the meeting to indicate quantity of patches required for each panel, and 14 panels which will have to be replaced. An electronic (ACAD) version of the drawing will be emailed next week, as well as repair priorities and methodology. The liner still needs to be inspected for damage between elevation 41-42 feet; CDM indicated that the pond elevation was 42.5 feet on the day of the meeting, and should be pumped down to about elevation 41 feet on 7/31/06.
- Regarding permitting status of the Gulfstream II borrow pit, Tim Morrow of Compass indicated that Gulfstream has responded to initial comments by Manatee County but was not certain of the status with SWFWMD. Compass anticipated that the borrow area may be available in September. See 10.0 Comments by FDEP for more.

Acceptances

- On 7/24/06, subgrade for liner installation, the SCP-S Process Water Sump north and south dikes and pond bottom, west of north dike station 104+00 and south dike station 118+00.
- On 7/26/06, subgrade for liner installation, the SCP-S Process Water Sump north and south dikes and pond bottom, west of north dike station 105+00 and south dike station 117+00.

9.0 COMMENTS by PROGRAM MANAGER

- Change order requests related to Phase I closure gypsum quantity adjustments and Phase I south seepage collection drain lowering will be submitted by CDM at the Program Manager's meeting.
- A proposal for the gravel erosion protection, yet to be installed along the inboard slope of the access road at the toe of the OGS-S slope cover, will be presented by CDM at the Program Manager's meeting.

10.0 COMMENTS by FDEP

- Compass/CDM were requested to clarify the Gulfstream II borrow pit permitting status by email.
- FDEP expects that CDM/Subcontractor short-term look-ahead schedules should be consistent among subcontractors (e.g., completion of liner installation in the SCP-PWS) so that projected completion dates are as reliable as possible.
- Regarding schedule, FDEP indicated concerns with delaying the Phase II Slope Closure drain installation until October 2006, and the subsequent delay in watershed reduction. CDM was requested to explore whatever means are necessary to continue progressing with this work.