

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 05-110A	Page 1 of 5
		Meeting Date: <u>8/10/06</u>	
		Report No: <u>73</u>	Report Date: <u>8/15/06</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: Nadim Fuleihan, Rob Werner, John Cameron, Tony Deatherage FDEP: John Coates, Sam Zamani CDM: Mick Edgar, Dean Carter, George Curry, Steve Solters, Jean Wilson Moretrench: Mike Panny, Paul Davis, Ralph Remmert Comanco: Tom Topp Compass: Tom McSweeney, 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 17, 2006
Construction/Engineering Meeting at 9:00 am

1.0 REVIEW MINUTES OF PREVIOUS MEETING

Change order requests related to Phase I closure gypsum quantity adjustments and Phase I south seepage collection drain lowering were not submitted to FDEP as reported last meeting. See 9.0 Comments by CDM for more.

2.0 SAFETY

No incidents were reported.

3.0 SUMMARY OF WORK PERFORMED

Moretrench:

- Continued work on Phase II Slope Closure - completed finish grading the south and east ditch up to station 152+24. Also worked on the stormwater pond perimeter dike between stations 120+00 and 132+00, and restoring a 3- to 4-foot berm adjacent to the north seepage toe ditch between stations 105+00 to 132+50.
- Well Water usage - none since last report.
- Equipment: 3 D-6 dozers, 1 compactor, 1 excavator, one 6-inch hydraulic pump - 6 personnel.

Comanco:

- Continued liner deployment and detail work, and started anchor trench compaction in the SCP-S Pond Water Sump; as of 8/8/06 liner deployed totaled 137,633 sf of 80-mil textured liner and 241,899 sf (no change) of 80-mil smooth liner.
- Completed preparation, liner installation and detail work to retrofit rip-rap structure depressions in the Phase I Slope Closure west ditch; also completed anchor trench compaction in the west ditch.
- Completed liner deployment (from station 171+39 to 152+24) and began detail work in the Phase II Slope Closure ditch; as of 8/8/06 liner deployed totaled 84,753 sf of 80-mil textured liner.
- Equipment: 1 excavator, 2 3-inch pumps, 2 loaders, 1 track crawler dump, 1 4x4 Honda 350 w/trailer, 2 pick-up trucks, 1 crew bus, 1 QC trailer, 6 generators - 23 personnel.

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Compass:

- Continued watering for dust control; well water usage since last report - 25,000 gallons.
- Continued grading the SCP-S Process Water Sump dikes and pond bottom.
- Amended, seeded and mulched the Phase II Slope Closure east gypsum slopes from station 147+00 to 138+00 (subcontractor Tate Environmental).
- Seeded and mulched the Phase I Slope Closure south earthen dike slope facing Buckeye Road.
- Equipment: 2 dump trucks, 1 water wagon, 2 D-6 dozers, 1 excavator, 1 compactor, 1 motor grader - 8 operators. Demobilized 1 excavator and 1 Case dozer since last report.

CDM

- Continued receiving soil fill material from L.A. Enterprises: 36,618 cy (loose) for construction of the Phase II Slope Closure perimeter dike, and 442 cy (no change) for the Phase I OGS north ditch - totals reported by CDM as of 8/9/06.
- Received following from Lane Piping: 800' of 24-inch HDPE SDR 17 for the Phase II Slope Closure.
- Also started work in the SCP-S Cap - dewatering, excavating dewatering ditches and stockpiling material to dry out.

4.0 PROJECTED WORK FOR NEXT WEEK

Moretrench:

- Continue work on Phase II Slope Closure - constructing the stormwater pond perimeter dike, and install an extension on the NDS-S outlet pipe 18-inch valve.

Comanco:

- Continue liner deployment, detail work and anchor trench compaction in the SCP-S Pond Water Sump.
- Continue liner detail work and start anchor trench compaction in the Phase II Slope Closure stormwater ditch.
- Resume modifications to the NGS-N spray evaporation system (received more polypropylene ties).
- Start repair work on the NGS-S liner - see 8.0 Technical Items - Miscellaneous for more.

Compass:

- Continue watering for dust control.
- Continue grading the SCP-S Process Water Sump dikes and pond bottom.
- Regarding intent to continue amending and grassing the Phase II Slope Closure east and north slopes, see 8.0 Technical Items - Miscellaneous for comments before proceeding with this work.

5.0 SURVEY NOTES

- Compass/Edgemon continued as-built survey updates of the SCP-S Process Water Sump liner subgrade as the work progressed. As of 7/28/06, the dikes and pond bottom have been as-built west of north dike station 106+00 and south dike station 116+00, and south of east dike station 111+00.
- Moretrench/Edgemon provided as-built surveys of the OGS north ditch rip-rap depressions on 7/21/06, 7/24/06, 7/26/06 and 8/3/06; Moretrench was requested to incorporate the as-built data into the composite as-built for the Phase I Slope Closure stormwater ditches - Ardaman requested an ACAD version for the composite as-built.
- Moretrench/Edgemon continued as-built survey updates of the Phase II Slope Closure stormwater ditch liner subgrade as the work progressed. As of 8/8/06 the ditch has been as-built up to station 152+24.

6.0 PROJECT SCHEDULE

- 1 workday was lost to weather by Compass this reporting period; none by Moretrench or Comanco.

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- The project schedule was updated by CDM on 8/9/06 and was distributed and discussed at the meeting. CDM indicated that the schedule was updated to reflect progress in the SCP-S Sump and Phase II Slope Closure portions of the project; no logic changes have been made.
- CDM indicated their intent to resume drain installation for the Phase II Slope Closure on 8/21/06 - resumption will be on the east ditch (ID 2560), rather than the north ditch (ID 2760) as indicated.
- No change has been made to the anticipated completion date of 9/29/06 for permitting the Gulfstream II borrow area (ID 1065). Once permitting is accomplished, soil cover is presently scheduled to start on 10/2/06 at the Phase II Slope Closure south and north ditches (ID's 2520 and 2810). The indicated start date of 9/24/06 for the east ditch (ID 2630) may be an error.
- Weekend work schedule: no work is planned this 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).

- 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.)
- Comanco submitted liner panel placement drawings on 7/28/06 for the Phase II Slope Closure 80-mil stormwater ditch and 60-mil stormwater pond. The 80-mil stormwater ditch was approved by Ardaman on 7/31/06, subject to minor field adjustments. The 60-mil stormwater pond requires clarification regarding cross seams.

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.

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- 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 - 945 tests passing, none failing, none pending.
- Phase 2 Slope Closure in-place gypsum/soil density tests - 113 tests passing, 2 failing (station 108+50 toe road and station 126+00 toe road), none pending.
- SCP-S Process Water Sump in-place gypsum/soil density tests - 171 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) - 38 marked, 32 passing, 4 pending. A summary of DT testing dated 8/9/06, revision 3, was distributed at the meeting
- Phase II Slope Closure 80-mil stormwater ditch liner seam destructive testing (DT's) - 11 marked, none passing, 6 pending.
- Phase I stormwater ditch liner anchor trench density tests - 63 passing, none failing, none pending - anchor trench compaction testing is complete for this portion of the project.
- Phase 2 stormwater ditch liner anchor trench density tests - no testing as yet.
- SCP-S Process Water Sump liner anchor trench density tests - 1 passing, 1 failing, 1 pending.

Miscellaneous

- Rainfall: CDM reported 0.69 inches from 8/2/06 through 8/7/06.
- Regarding repairs to NGS-S liner damage, Ardaman distributed a revised location plan (pdf version dated 8/2/06) by email on 8/3/06; an ACAD version was emailed to CDM. Repair methodology was emailed on 8/10/06, and was distributed at the meeting. The liner was inspected by Ardaman for damage between elevation 41-42 feet this week, and a few additional repairs were marked in the field. CDM indicated that the pond elevation was 39.9 feet, and they will hold this elevation until repairs are complete between elevations 40 and 41 - Moretrench agreed to give priority to these repairs, and to proceed as soon as possible.
- Regarding permitting status of the Gulfstream II borrow pit, Compass indicated that the presently scheduled date of 9/29/06 is uncertain; hopefully it can be met.
- Compass requested acceptance criteria for sod and grassing; Ardaman will provide a copy of previously distributed supplemental sod fertilization requirements..
- In response to CDM/Compass' intent to amend and grass the Phase II Slope Closure north slope and east slope (north of the east ramp), it was noted by Ardaman that while the grades above the 1:1 cut are acceptable, there may be excess gypsum cut on the slope below the 1:1 cut, and that additional material may be generated during fine grading for drain installation. It was recommended that the slope below the 1:1 cut be surveyed to determine if excess material, which would need to be spread on the slope above the 1:1 cut, exists prior to amending and grassing.

Acceptances

- On 8/4/06, subgrade for liner installation, the SCP-S Process Water Sump dike between stations 113+00 and 116+00, plus 40' out from the toe-of-slope.
- On 8/4/06, subgrade for liner installation, the Phase II Slope Closure stormwater ditch, from station 162+00 to 157+00.
- On 8/4/06, subgrade for liner installation, the Phase II Slope Closure stormwater ditch, from station 157+00 to 153+00.
- On 8/9/06, subgrade for liner installation, the Phase II Slope Closure stormwater ditch, from station 153+00 to 152+24.

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9.0 COMMENTS by PROGRAM MANAGER

- Documentation provided by Moretrench in a report by their consultant (JBM&R) pertaining to their change order claim to CDM related to Phase I closure gypsum quantity adjustments, stormwater conveyance structures and Phase I seepage collection drain were discussed at a meeting on 8/9/06 with FDEP and Ardaman. (CDM has not yet submitted an official change order to FDEP).
- 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 discussed at the Program Manager's meeting.

10.0 COMMENTS by FDEP

- CDM, its subcontractors, and Ardaman were complimented for the close coordination and progress achieved with grading and lining the SCP-S Process Water Sump and the Phase 2 Slope Closure stormwater ditches.
- Regarding consideration of retainage release for grassed areas, CDM/Compass were requested to submit a tabulation of areas seeded, including acres, dates of original seeding, repairs and fertilization.
- Regarding retainage release for soil cover on the OGS-S slopes, this cannot be considered until the gravel erosion protection issue is resolved.