

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 05-110A Meeting Date: <u>3/23/06</u> Report No: <u>53</u>	Page 1 of 5 Report Date: <u>3/29/06</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 Fuleuhan, Rob Werner, John Cameron, Tony Deatherage Receiver: Louis Timchak FDEP: John Coates CDM: Dean Carter, Mike Cruz, Steve Solters, Jean Wilson, George Curry Moretrench: Steve Voytko, Harley Frady, Mike Panny, Paul Davis Comanco: Paul Moore Compass: Tim Morrow, Vernon Giles			

COPY TO: Louis J. Timchak - Receiver
 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
 Comanco: Tom Topp, Paul Moore
 Compass: Tim Morrow, Vernon Giles, Tom McSweeny

Next Meeting is Scheduled for Thursday, March 29, 2006
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

Moretrench:

- Hauled excess gypsum from the OGS southwest corner to the NGS-S east slope.
- Continued excavation of OGS south ditch in preparation for installation of seepage collection drains; hauled excess mixed gypsum and soil to stockpile.
- Well Water usage this report - approximately 105,000 gallons.
- Equipment: 3 D-6 dozers, 1 compactor, 1 excavator, 1 water wagon, 2 dump trucks, 3 6-inch hydraulic pumps, 2 4-inch hydraulic pumps - 6 personnel.

Comanco:

- Continued 80-mil liner installation at the Phase I stormwater ditches; 191,175 sf (4.4 acres) was installed as of 3/22/06 - from station 163+30 to the OGS-S outlet pipe (approximately station 128+80).
- Completed detail work and anchor trench gypsum compaction.
- Completed repairs to various HDPE outlet pipes in the Phase I stormwater ditches, except the outlet pipe from the OGS slope pond, which will not be repaired until soil cover is placed at this location.
- Equipment: all remaining equipment and personnel were demobilized on 3/22/06.

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Compass:

- Continued sod installation on the OGS-S south slope.
- Continued installation of irrigation system on the OGS outside south slope; also started installation on the OGS-S inside east slope.
- Resumed work on the OGS-S filtration drain.
- Continued watering for dust control.
- Well Water usage this report - approximately 370,000 gallons.
- Equipment: 2 dump trucks, 2 water wagons, 1 loader, 3 dozers, 2 compactors - 10 operators. 1 motor grader and 2 dump trucks were demobilized.

4.0 PROJECTED WORK FOR NEXT WEEK

Moretrench:

- Continue work at the OGS south ditch.
- Continue hauling excess mixed gypsum and soil to stockpile.

Comanco:

- No additional subgrade is ready for liner installation at this time.
- Management is reviewing and planning repairs to the Phase I stormwater ditch inboard anchor trench where it is below design elevation. See 8.0 Technical Items - Miscellaneous and Acceptances for more.

Compass:

- Continue sod installation on the OGS-S south slope.
- Continue work on the OGS-S filtration drain.
- Continue installing irrigation system on OGS grassed slopes.
- Continue watering for dust control.

5.0 SURVEY NOTES

- No change - CDM/Moretrench were requested to provide a survey delineating excess soil and/or gypsum separately, at the OGS southwest corner toe road and ditch - Moretrench indicated that the excess soil and gypsum would first be placed in separate stockpiles and then surveyed. [Survey results not yet received by Ardaman]
- Waiting on ACAD version of Pickett's as-built surveys for Moretrench on 2/21/06, 2/22/06 and 3/10/06 of the OGS west stormwater ditch from the northwest ramp to the OGS-S outlet pipe. Ardaman requested an as-built survey of the inboard anchor trench liner elevation from station 130+00 to the OGS-S outlet pipe.
- Ardaman received ACAD versions on 3/17/06 of Pickett's as-builts for Compass of the OGS-S east & south slopes.
- CDM requested Moretrench/Pickett to provide revised gypsum fill quantity survey estimates at 4 locations: NGS-N Relief Ditch north end (fat), NGS-N Relief Ditch south slope curve (fat), NGS-N west slope curve (fat), and the OGS south slope (thin). Ardaman has received ACAD versions of the 1/23/06 and 2/23/06 Pickett take-up surveys. Ardaman provided a plan sketch highlighting areas where gypsum quantity estimates need to be determined.
- Moretrench indicated that they now have an in-house surveyor to assist with field layout work. They are also considering Edgemon Land Surveying to assist with work requiring a Florida PLS.

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 3/21/06; hard copies were distributed at the meeting. The updated schedule reflects current progress, along with modifications to Phase II slope closure logic, and a compression of SCP south compartment activities. See 10.0 Comments by FDEP for more.
- Weekend work schedule: no work is planned this weekend.

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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).

- CDM/Compass were requested to submit the concrete mix design for the OGS-S inlet structure modification.
- Ardaman requested Compass to provide 2 five-gallon samples of the proposed Larkin Nursery borrow area for geotechnical testing.
- Ardaman requested CDM to provide shop drawings for the SCP south compartment HDPE manholes.

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 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.

Quality Control Activities

- Ardaman had 3 technicians on site this reporting period.
- In-place gypsum density tests - 837 tests passing, 3 failing (OGS south ditch north slope), none pending.
- In-place soil fill density tests (OGS-S slope cover) - no change - 59 passing, none failing, none pending.
- Phase I stormwater ditch liner seam destructive testing (DT's): 19 marked, 18 passing, none failing, 1 pending. A summary of DT testing (revision 2, dated 3/22/06) was distributed at the meeting.
- Phase I stormwater ditch liner anchor trench density tests - no change - 24 tests passing, none failing, none pending.
- 80-mil textured liner roll conformance testing: all rolls (100 total) have been conditionally released for deployment - a summary of conformance testing and status (revision final, dated 3/22/06) was distributed at the meeting.

Miscellaneous

- Rainfall: CDM reported 0.00 inches from 3/15/06 through 3/21/06.
- Conceptual plans and cross-sections were provided by Ardaman at the meeting for CDM's consideration regarding interim pipe tie-ins, routing and valve placements for outlet pipes from the OGS-N Reservoir, OGS Slope Pond and NGS-N Relief Ditch.

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- Regarding disposition of additional excess gypsum encountered along the south side of the OGS south stormwater ditch, Ardaman explained, as documented in a 3/6/06 email to FDEP, that a substantial portion of the gypsum hauled as excess to the NGS-S slopes was erroneously excavated from below design grades - this over-excavated material would not be considered for payment. Since the over-excavated material was placed along with the "true excess" cut from above design grades, the former plan to survey the pre- and post- execution as measurement for payment will be abandoned. Based on Ardaman's evaluation, the recommended pay quantity is 3700 cy. FDEP forwarded Ardaman's evaluation to CDM on 3/16/06.
- Regarding resolution of liner inboard anchor trench grade deficiencies along portions of the OGS ditch, Ardaman provided a drawing and cross-section at the 3/16/06 construction meeting for consideration by CDM/Comanco to extend the liner above the anchor trench, in lieu of retrofitting the lined ditch with a new anchor trench at the correct elevation. The sketch will be modified to extend the liner a distance of at least 1 foot beyond the point where the extension achieves a minimum elevation of 0.5 feet above the corresponding design top-of-liner elevation.
- Regarding Moretrench's question as to disposal of cemented hardpan while excavating for installation of the OGS seepage collection drain, Ardaman indicated that if this material is not friable, it may be utilized in the SCP at a maximum elevation 2 feet below liner. Moretrench will excavate some test pits this week and determine friability.

Acceptances

- Liner installation at the NGS-N west and OGS north and west stormwater ditches were last inspected by Ardaman on 3/16/06, from the OGS northwest ramp to approximately station 130+00 (panel #178). The balance of the lined ditch, from station 130+00 to the OGS-S Reservoir outlet pipe, will be inspected after the meeting. See above regarding resolution of liner inboard anchor trench elevations. It was also noted at the meeting that the liner (and subgrade) were not depressed at rip-rap aprons, as shown on the drawings.
- An acceptance form for liner subgrade acceptance, from station 130+00 to the OGS-S outlet pipe, is circulating for signatures.
- The balance of the OGS-S south slope soil cover was accepted for sod installation by email on 3/17/06.

9.0 COMMENTS by PROGRAM MANAGER

- A partial summary of pay quantities were previously sent for review to Ardaman and FDEP. CDM forwarded a completed summary of Compass soil quantities by email on 3/22/06 to FDEP and Ardaman. Ardaman reviewed the summary and responded by email on 3/22/06.
- No change - Status regarding Phase II Slope Closure is as follows: Comanco agreed at the 2/2/06 construction meeting to Ardaman's quantities per 1/24/06 email; Moretrench agreed at the meeting to accept Ardaman's quantities per 3/2/06 email; CDM is awaiting input from Compass for soil cover and grassing quantities.
- No change - Status regarding SCP-S Compartment closure is as follows: Comanco liner quantity estimates are essentially in agreement with the quantities provided by Ardaman via email on 2/6/06; CDM has received proposed pay quantities from Moretrench and forwarded to Ardaman and FDEP for review; CDM is awaiting input from Compass.
- Change Order #10 was executed by FDEP on 3/20/06 for adjustment in liner quantities and resin cost.
- Change Order #11 was executed by FDEP on 3/21/06 for invoicing Phase I Slope Closure stored silica gravel.
- CDM/Compass were requested to provide as-built survey data for the excavated ditch invert between the SCP south and north compartments

10.0 COMMENTS by FDEP

- FDEP indicated concern with ongoing closure construction schedule delays, and would very much like to move forward with closure construction progress. It was noted that Piney Point closure is a Department strategic priority, and that schedule slippage will result in additional water treatment.

11.0 COMMENTS by the RECEIVER

- Ardaman is preparing an index of final as-built drawings - draft due next Program Manager's meeting.
- CDM was requested to maintain field markers to identify the slurry wall location.