

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 05-110A	Page 1 of 4
		Meeting Date: <u>3/30/06</u>	
		Report No: <u>54</u>	Report Date: <u>4/3/06</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: Rob Werner, John Cameron, Tony Deatherage Receiver: _____ FDEP: _____ CDM: Mike Cruz, Jean Wilson Moretrench: Steve Voytko, Paul Davis, Ralph Remmert Comanco: Paul Moore Compass: 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, Ralph Remmert
 Comanco: Tom Topp, Paul Moore
 Compass: Tim Morrow, Vernon Giles, Tom McSweeny

Next Meeting is Scheduled for Thursday, April 6, 2006
Construction/Engineering Meeting at 9:00 am

1.0 REVIEW MINUTES OF PREVIOUS MEETING

Under 3.0 Summary of Work Performed - Compass - 1 excavator was inadvertently omitted from Compass' equipment list.

2.0 SAFETY - No safety incidents were reported.

3.0 SUMMARY OF WORK PERFORMED

Moretrench:

- Continued excavation of OGS south ditch in preparation for installation of seepage collection drain; completed hauling excess mixed gypsum and soil to stockpile.
- Resumed construction of OGS south perimeter dike with soil fill hauled back from the soil stockpile.
- Started work on Phase II slope closure - stripped and stock-piled vegetation.
- Well Water usage this report - approximately 85,000 gallons.
- Equipment: 3 D-6 dozers, 2 compactors, 1 excavator, 1 water wagon, 2 dump trucks, 3 6-inch hydraulic pumps, 2 4-inch hydraulic pumps - 8 personnel.

Comanco:

- An in-house surveyor is laying out limits of field repairs to extend the OGS stormwater ditch liner grade at the inboard anchor trench. See 8.0 Technical Items for more.

Compass:

- Continued installation of irrigation system on the OGS-S inside slopes.
- Continued work on the OGS-S filtration drain.
- Continued watering for dust control.
- Well Water usage this report - approximately 170,000 gallons.
- Equipment: 2 dump trucks, 1 water wagon, 1 loader, 2 dozers, 1 excavator - 4 operators; 2 compactors, 1 dozer and 1 water truck were demobilized.

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CLOSURE CONSTRUCTION - NGS-S RESERVOIR, OGS SLOPES, TOP CAPS AND NGS-N RELIEF DITCH	Project Address: 13300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee County	

4.0 PROJECTED WORK FOR NEXT WEEK

Moretrench:

- Continue work at the OGS south ditch and start seepage drain installation. See 8.0 Technical Items - Miscellaneous.
- Continue work on the NGS Phase II slopes.

Comanco:

- Comanco will continue laying out scope of field repairs to extend the Phase I stormwater ditch liner at the inboard anchor trench. It was recommended by Ardaman that the proposed limit of liner extension should be field marked and checked before proceeding with the liner extension itself. See 8.0 Technical Items for more.

Compass:

- Continue work on the OGS-S filtration drain.
- Continue irrigation and 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 had previously indicated that the excess soil and gypsum were placed in separate stockpiles and were then surveyed by Pickett. The survey results are needed to determine the volume of the gypsum stockpile (i.e., stockpile No. 10).
- 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 also had previously requested an as-built survey of the inboard anchor trench liner elevation from station 130+00 to the OGS-S outlet pipe.
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- CDM/Pickett were requested to provide ditch, water elevation and perimeter road profiles along the toe of the NGS-S south slope.

6.0 PROJECT SCHEDULE

- No workdays were lost to weather this reporting period.
- The project schedule will be updated by CDM prior to next construction meeting on 4/6/06.
- CDM will also provide a "2-week look-ahead" schedule at future Program Manager's meetings and identify activities requiring group discussion, so that all parties have adequate time for comments, questions, planning and coordination.
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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.
- CDM/Compass provided 2 five-gallon samples to Ardaman on 2/28/06 from the proposed Larkin Nursery borrow area for geotechnical testing.
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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.
- Regarding resolution of grade deficiencies along portions of the inboard liner anchor trench in the OGS stormwater ditch, Ardaman had provided a drawing and cross-section at the 3/16/06 construction meeting for extending the liner above the anchor trench, in lieu of retrofitting the lined ditch with a new anchor trench at the correct elevation. (CDM/Comanco later indicated that this retrofitting option would be adopted). Based on observations and discussions at the 3/23/06 meeting, requirements for the liner extension were modified. A revised typical cross section figure was provided at the meeting, which indicates that the liner needs to be extended a minimum distance of 1 foot beyond the point where the minimum elevation, being 0.5 feet above the original design liner anchor trench elevation, is achieved.

Quality Control Activities

- Ardaman had 2 technicians on site this reporting period.
- In-place gypsum density tests - 850 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, 19 passing, none failing, none pending. A summary of DT testing (revision 3, dated 3/29/06) was distributed at the meeting.
- Phase I stormwater ditch liner anchor trench density tests - no change - 24 tests passing, none failing, none pending.

Miscellaneous

- Rainfall: CDM reported 0.40 inches from 3/22/06 through 3/28/06.
- CDM/Moretrench presented their dewatering plans related to installation of the OGS south seepage collection drain, including plans for maintaining control water elevations in the existing OGS south seepage ditch and routing of flow from the NGS stack drain outlet (that currently discharges into a temporary sump at the extreme east end of the seepage ditch and is being pumped through a HDPE pipeline to the east seepage ditch) during drain installation. (Moretrench indicated that prior plans to operate a well-point dewatering system have been abandoned based on results of recently completed test excavations along the seepage drain alignment.) It was agreed that the following plan would be undertaken:

- ☐ Remove the temporary culvert crossing at the west end of the OGS seepage ditch (Done).

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- ☐ Relocate the eastern portion of the existing seepage ditch (that coincides with the design alignment of the proposed seepage collection drain) by excavating a new ditch segment along the south side of the proposed stormwater ditch alignment that ties into the existing western portion of the seepage ditch. - Completed 3/31/06
- ☐ Survey the alignment and invert elevation/water level profile of the realigned seepage ditch. - Completed 3/31/06
- ☐ Establish additional water level monitoring markers in the seepage ditch. - Completed 3/31/06
- ☐ Discontinue pumping flow from the NGS stack drain outlet and excavate a ditch segment to convey flow to the upstream end of the realigned seepage ditch. Monitor downstream seepage ditch water levels to confirm that the additional flow does not raise the water level above previously specified maximum levels. - Completed 3/31/06; no change in water level noted
- ☐ Maintain the pump and pipeline at their current locations for future use, if needed. (In the event that the pipeline to the east seepage ditch is put back in service, the pipeline will first be relocated to the north and back inboard of the stack system containment berm.
- ☐ Continue maintain the OGS south seepage ditch throughout installation of the seepage collection drain.
- ☐ Excavate the ditch and install the seepage collection drain in segments, proceeding from east to west. The open segment of ditch will be surface-dewatered by pumping from a small temporary sump at its downstream end to the adjacent seepage ditch (for conveyance to the west and ultimately to the SCP seepage ditch pumps); The drain installation ditch sump and pump will be incrementally moved towards the west as drain installation proceeds.

Acceptances

- Liner installation at the NGS-N west and OGS north and west stormwater ditches were last inspected by Ardaman on 3/23/06, from station 130+00 to approximate station 128+80 (OGS-S Reservoir outlet pipe). An updated punch list will be provided by Ardaman to CDM for items still to be repaired in the Phase I stormwater ditch lined to date.
- An acceptance form for liner subgrade acceptance, from station 130+00 to the OGS-S Reservoir outlet pipe, is waiting on Comanco's signature.

9.0 COMMENTS by PROGRAM MANAGER

- 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 received Compass' input for soil cover; still waiting on 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.

10.0 COMMENTS by FDEP

FDEP was not represented at the meeting.

11.0 COMMENTS by the RECEIVER

The Receiver was not represented at the meeting.

- Ardaman is preparing an index of final as-built drawings - draft due next Program Manager's meeting.
- CDM was requested to place field markers indicating the slurry wall location - installation of markers by CDM/Pickett is in progress.

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