

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 06-110A Meeting Date: <u>10/12/06</u> Report No: <u>82</u>	Page 1 of 4 Report Date: <u>10/18/06</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, Tony Deatherage FDEP: CDM: Dean Carter, Mike Cruz, Steve Solters Comanco: Paul Moore Compass: Jeremy Giles HRK:			

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

HRK: Art Roth, Ivan Nance

Next Meeting is Scheduled for Thursday, October 19, 2006
Site Tour at 8:00 am followed by
Construction/Engineering & CDM Operations Meetings

1.0 REVIEW MINUTES OF PREVIOUS MEETING

No corrections were noted.

2.0 SAFETY

No incidents were reported.

3.0 SUMMARY OF WORK PERFORMED

Comanco:

- Continued Phase II stormwater ditch grading and seepage collection drain installation. Installed about 853 ft seepage collection drain this week; for a total of about 1,053 ft to-date (from about Sta. 151+53 to 141+00).
- Continued liner installation and anchor trench compaction in the Phase II east stormwater ditch. Deployed about 51,234 sf of 80-mil liner (Comanco estimate) this week. Comanco estimates 154,606 sf of 80-mil liner installed to-date. Note: Detail work is essentially on hold pending satisfactory resolution of the extrusion welding problems - see 8.0 Technical Items - Miscellaneous for more.
- Completed NGS-S Reservoir liner repairs (for Moretrench).
- Equipment: 2 excavators, 1 ditch cleaning mini excavator (added this week), 2 dozers, 2 plate compactors, 2 3-inch pumps, 1 4-inch vacuum assisted centrifugal pump (added this week), 1 loader, 1 track crawler dump, 1 trailer, 2 pick-up trucks, 1 crew van, 2 QC trailers, 6 generators, 1 vibratory smooth-drum roller- 28 personnel. The sheepsfoot roller is presently being exchanged for a ditch-cleaning excavator.

Compass:

- Well Water usage - 50,000 gallons used for dust control since last report.
- Continued road repairs as needed.
- Mowed the OGS and NGS Cap Areas, Slope Pond, OGS South Slope and OGS-S Soil Cover using a tractor-pulled bat-wing Brush Hog mower. (CDM noted that the Brush Hog mower was sold by HRK and is no longer on site.)

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 06-110A	Page 2 of 4
	Meeting Date: <u>10/12/06</u>	
	Report No: <u>82</u>	Report Date: <u>10/18/06</u>
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- Started backfilling erosion gullies on the OGS west slopes (using manually placed and tamped gypsum transported with a Gator from the Phase I gypsum stockpile along the north toe of the OGS).
- Equipment: 5 dump trucks, 1 water truck, 2 D6 dozers, 1 D8 dozer, 2 excavators (Cat 365 excavator added this week), 1 motor grader - 6 operators.

4.0 PROJECTED WORK FOR NEXT WEEK

Comanco:

- Continue work in the Phase II Slope Closure stormwater ditch - dewatering, fine grading and compaction, seepage drain installation and liner installation.

Compass:

- Start fertilizer application on grassed areas.
- Continue erosion gully repairs on the OGS slopes.
- Start silt fence installation at the Gulfstream II borrow area, pending authorization by Gulfstream.

CDM

- Undertake repairs to the soil berm south of the OGS south stormwater ditch, and clean up eroded soil sediment which has been deposited south of the fence line along Buckeye Road.

5.0 SURVEY NOTES

- Compass/Edgemon completed as-built survey updates for the SCP-S Process Water Sump liner subgrade on 9/7/06. Ardaman received a composite survey in ACAD format from CDM via email on 10/10/06.
- CDM was requested at the 8/24/06 construction meeting to survey water elevations in the seepage ditch and adjacent Buckeye Road ditch near the southwest corner of the SCP-S. A partial survey was performed on 8/28/06 (but the water level in only one of the two ditches was reported). CDM was requested to re-survey and to measure water levels in MW-13 and nearby piezometer(s). *[Results will be reported at next week's meeting.]*
- Standing water was observed during the 9/7/06 site tour on the road between the OGS-S and -OGS-N ponds; Edgemon surveyed the road grades for CDM 10/4/06. *[CDM provided results to Ardaman in pdf format via email on 10/13/06].*
- As requested at the 9/28/06 meeting, Edgemon completed an as-built survey of the Phase I stormwater ditch inboard anchor trench liner extensions for CDM/Comanco. *[CDM provided results to Ardaman in a 10/10/06 pdf file via email on 10/10/06].*
- Edgemon continued as-built surveys for the Phase II Slope Closure stormwater ditch drain installation and liner subgrade as the work progressed by Comanco. Approval by Ardaman is based on field notes signed by Edgemon's surveyor and provided by Comanco/CDM; notes for the liner subgrade will eventually need to be transferred to a composite as-built drawing.

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 10/4/06. The updated schedule was distributed and discussed at the meeting.
- Weekend work schedule: Comanco on Saturday. Compass indicated that they may work Sunday (mowing).

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).

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 06-110A	Page 3 of 4
	Meeting Date: <u>10/12/06</u>	
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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 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.
- Drawings were distributed by Ardaman at the meeting to add 4-inch bleeder orifices at structure #7 in the OGS Slope Pond. CDM was requested to provide a proposal for the extra work, and to include it in the change order request for additional panel drains.

Quality Control Activities

- Ardaman had 3 technicians on site this reporting period.
- Phase I Slope Closure in-place gypsum/soil density tests - no change - 945 tests passing, none failing, none pending.
- Phase II Slope Closure in-place gypsum/soil density tests - 149 tests passing, none failing, none pending.
- OGS-S slope cover in-place soil fill density tests - no change - 59 passing, none failing, none pending.
- Phase II Slope Closure 80-mil stormwater ditch liner seam destructive testing (DT's) - 17 marked (or planned), 13 passing, none pending. A summary of DT testing dated 8/24/06, revision 1, was distributed at the 8/24/06 meeting.
- Phase II stormwater ditch liner anchor trench density tests - 17 passing, 11 failing, none pending.

Miscellaneous

- Rainfall: CDM reported 0.00 inches from 10/4/06 through 10/11/06.

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 06-110A	Page 4 of 4
	Meeting Date: <u>10/12/06</u>	
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- Regarding resolution of the extrusion welding problems, Comanco did receive new welding rod from GSE. Ardaman reiterated that determination of cause and actions for prevention of future occurrence need to be finalized before full-scale production extrusion welding can resume - Comanco is awaiting a report from GSE.
- *Ardaman and CDM made a final inspection of the NGS-S Reservoir liner repairs after the meeting. Ardaman indicated acceptance of the repair work completed by Comanco for Moretrench in a 10/16/06 email to FDEP.*
- *Ardaman, CDM and FDEP (Scott Rose) observed conditions in the seepage breakout are on the access road along the north toe of the return ditch containment berm. [Ardaman summarized observations and provided recommendations to the Department in a 10/16/06 email].*
- *Ardaman and FDEP (Scott Rose) observed conditions of resumed seepage flow from the "Granddaddy Boil" area located near the east end of the return ditch along the north toe of the OGS. CDM reported results at the meeting for a water sample taken from this location on 10/11/06 as follows: pH=2.97; Conductivity = 11,920 uS; Turbidity= 1.82 NTU, and Ammonia = 437 mg/l.*

Acceptances

- On 10/6/06, subgrade for liner installation, Phase II Slope Cover stormwater ditch, from station 150+00 to 147+00.
- On 10/11/06, subgrade for liner installation, Phase II Slope Cover stormwater ditch, from station 147+00 to 144+00.

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 discussed at the 8/10/06 Program Manager's meeting. CDM is awaiting feedback from FDEP.
- Soil cover quantities for Tasks C2 and C3 were discussed at the Program Manager's meeting on 9/7/06; CDM is presently reviewing input from Compass which was received 9/28/06.
- CDM has received proposals from Compass and Comanco to install additional panel drains, requested by Ardaman at the 7/20/06 construction meeting, in the OGS Slope Pond, OGS-N Cap, OGS west and south ditches, and the NGS-S east ditch. CDM will submit a change order request for this work.
- CDM was requested at the 9/21/06 construction meeting to submit a summary report regarding the incident of metal shovels being used by Comanco to clean liner in the Phase II Slope Cover lined stormwater ditch.
- A tabulation for grassing work to date was received by CDM from Compass, and forwarded to FDEP on 10/2/06. The tabulation was distributed at the meeting - a conference call will be scheduled to discuss it.

10.0 COMMENTS by FDEP

FDEP was not present at the meeting.

11.0 HRK

HRK was not represented at the meeting.