

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 06-110A	Page 1 of 5
		Meeting Date: <u>12/28/06</u>	
		Report No: <u>93</u>	Report Date: <u>1/3/07</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 FDEP: John Coates (telecom), Sam Zamani CDM: Dean Carter, Jean Wilson, Steve Solters, George Curry Comanco: Paul Moore Compass: Tim Morrow, Jeremy Giles Moretrench: Ralph Remmert HRK: Art Roth			

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
 Comanco: Tom Topp, Paul Moore
 Compass: Tim Morrow, Jeremy Giles, Tom McSweeney
 Moretrench: Mike Panny, Ralph Remmert
 HRK: Art Roth, Ivan Nance

Next Meeting is Scheduled for Thursday, January 4, 2007
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

Comanco:

- Continued Phase II stormwater ditch grading and seepage collection drain installation. Drain has been completed from station 151+20 to 101+00 as of 12/27/06. Also started installation of inlet structure numbers 1 and 2 and outlet pipes.
- Continued Phase II ditch liner installation. Installed about 7,859 sf this week (411,157 sf total as of 12/28/06).
- Continued installation of liner flap extensions in Phase I stormwater ditches.
- Equipment: 2 excavators, 1 dozer, 1 plate compactor, 2 3-inch trash pumps, 1 loader, 1 track crawler dump, 1 mini-excavator, 2 pick-up trucks, 1 crew van, 2 Q/C trailers, 4 generators, 1 4-inch vacuum pump, 1 pipe fusion machine - 14 personnel. Demobilized 1 excavator, 1 dozer, and 1 mini-excavator since last report.

Compass:

- Well Water usage - 0 gallons used for dust control since last report.
- Continued washout repairs on the OGS west slope.
- Watered seeded and sodded areas.
- Continued soil cover (with soil fill from Larkin Nursery) in the Phase I stormwater ditches - a quantity report was not available at the meeting. Continued compaction where soil cover has already been placed. Larkin Nursery is closed from 12/12/23/06 through 1/1/07.
- Equipment: 6 dump trucks, 2 water trucks, 2 D6 dozers, 1 D8 dozer, 2 excavators, 2 motor graders, 3 club carts - 5 personnel. Some equipment (e.g., dump trucks) is not currently being used.

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 06-110A	Page 2 of 5
	Meeting Date: <u>12/28/06</u>	
	Report No: <u>93</u>	Report Date: <u>1/3/07</u>
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

Moretrench

- Continued placing and grading fill at the Phase II Slope Closure stormwater pond perimeter dike.
- Equipment: no report was submitted.

CDM

- Continued dewatering and stockpiling gypsum sediment/sludge in the SCP-S Cap area.
- Continued gypsum sediment removal from the Phase I stormwater ditches.
- Continued NGS-N washdown and sludge removal.
- Continued prep work for the NCP upgrade project - stripping vegetation and hauling fill (from Basin 2) for a bench inside the NCP.
- Stripped vegetation from the berm between Basin 2 and the SCP.
- Equipment: 2 dump trucks, 2 dozers, 2 excavators, 1 4-inch diaphragm pump - 9 personnel. Mobilized 1 Case 850K dozer since last report.

4.0 PROJECTED WORK FOR NEXT WEEK

Comanco:

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

Compass:

- Continue repairing washouts and watering grassed areas.
- Continue hauling, placing and compacting soil fill in the Phase I ditches. Larkin Nursery will re-open on 1/2/07.
- May start installing silt fence at the Gulfstream II borrow area.

Moretrench

- Continue grading fill at the Phase II Slope Closure stormwater pond and perimeter dike provided adequate soil fill materials are available. (If not, gypsum slope grading work will be undertaken at the northeast corner of the NGS.)

CDM

- Continue dewatering the SCP-S pond.
- Continue gypsum sediment removal from the Phase I stormwater ditches.
- Continue NGS-N washdown and sludge removal.
- Continue work at the NCP in preparation for raising the slurry wall.

5.0 SURVEY NOTES

- 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. A drawing of as-built surveys was last updated by Edgemon on 12/20/06 - a hard copy was provided to Ardaman at the meeting.
- Edgemon started as-built surveys of the liner flap extensions at the Phase I stormwater ditch. X,Y,Z coordinates were provided by CDM on 12/12/06, 12/14/06 and 12/21/06 for flaps extended as of that date (282' south of the northwest ramp centerline).
- CDM/Dredge America provided an ACAD file of the SCP-N latest sludge survey to Ardaman via email on 12/18/06; Ardaman indicated via email to CDM on 12/22/06 that a true 3-D CAD file is needed rather than the transformed 2-D version provided.

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 06-110A	Page 3 of 5
	Meeting Date: <u>12/28/06</u>	
	Report No: <u>93</u>	Report Date: <u>1/3/07</u>
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

- An as-built survey which was reportedly in progress by Edgemon on 12/21/06 for the Phase II stormwater pond , was actually performed on 12/27/06. CDM/Moretrench are awaiting results.

6.0 PROJECT SCHEDULE

- 1 workday was lost to rain this reporting period.
- The project schedule was last updated by CDM on 12/13/06. FDPE requested that schedule comments be deferred to the Project Manager's meeting.
- Compass had no new information on the permit status for the Gulfstream II borrow area. The earliest hauling of fill from Gulfstream II remains scheduled to start 1/15/07.
- Inquip is still scheduled to start mobilization 1/2/07, and Dredge America is scheduled to return 1/3-4/07.
- Weekend work schedule: no work is scheduled on the holiday weekend: Sat-Sun-Mon.

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).

- Shop drawings were re-submitted to Ardaman for approval by CDM via email on 12/21/06 for various concrete uniform section mats (Phase I structures 5, 8 & 10 and Phase II structure 4). The shop drawings were approved by email on 12/22/06.
- Concrete mix was submitted to Ardaman for approval by CDM via email on 12/20/06 for the NCP weir; CDM was advised to re-submit with river gravel aggregate. Ardaman indicated at the meeting that Rinker mix number 1334536 was previously approved in prior closure phases. CDM will confirm with Rinker that the ingredients and proportions for that mix no. have not changed and follow-up with an official submittal.

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.

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 06-110A	Page 4 of 5
	Meeting Date: <u>12/28/06</u>	
	Report No: <u>93</u>	Report Date: <u>1/3/07</u>
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

- 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. Copies of these figures were attached to the electronic version of the meeting minutes.
- Drawings were distributed by Ardaman at the 10/5/06 meeting to add 4-inch bleeder orifices at structure #7 in the OGS Slope Pond. (CDM will complete this work which was included in the scope of the previously executed change order that involved installation of additional panel drains.)
- Preliminary drawings were distributed at the 10/19/06 meeting for the SCP-S and SCP-N as follows: C-1, C-2, C-3, C-4 and L-1, all revision 0, dated 10/20/06. Electronic versions of Dwg. Nos. C-1 and L-1 were provided via email on 10/20/06. Drawing C-1, revision 1, dated 10/31/06, was distributed at the meeting (hard copies and CD's).
- Final drawing sets for the SCP phase 2 closure, dated 11/8/08, including all detail and liner drawings, were issued for construction and distributed at the 11/16/06 meeting (hard copies and CD's). Additional signed large Drawings were distributed at the meeting.
- Ardaman provided hard copies and a CD for Phase II Slope Closure drawing revisions on 12/14/06 as follows: C-1, revision 2, and D-2, revision 1, both dated 12/13/06.

Quality Control Activities

- Ardaman had 6 technicians on site this reporting period.
- Phase I Slope Closure in-place gypsum/soil density tests - no change - 945 passing, none failing, none pending.
- Phase II Slope Closure in-place gypsum/soil density tests - 265 passing, none failing, 1 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) - 47 marked, 43 passing, none failing, 3 pending. A summary of DT testing was last updated on 12/20/06 (revision 7).
- Phase II stormwater ditch liner anchor trench density tests - 54 passing, 2 failing, none pending.

Miscellaneous

- Rainfall: CDM reported 2.31 inches from 12/19/06 through 12/25/06.
- Regarding extrusion welding problems on GSE liner, Comanco is awaiting on a report from GSE regarding findings subsequent to David Legget's visit on 10/26/06. Regarding the outstanding repairs/punchlist items for the Phase II east ditch, Comanco will obtain necessary extrusion welding rod from GSE to complete the repairs.
- CDM and Ardaman continue to monitor seepage flow at the Granddaddy Boil location.
- Regarding acid brick noted in last report, FDEP requested ECT/HRK at the 12/14/06 meeting to provide email confirmation of readings taken which indicated that the brick was not contaminated
- As reported at the 12/7/06 meeting, existing soil cover thickness was measured by Ardaman and found to be deficient at several locations along the perimeter roads around the OGS-N and OGS-S Caps on 12/4/06. It was requested at the 12/14/06 meeting that the soil cover be restored to at least 22"; CDM/Compass indicated that this will be done when hauling from the Gulfstream II borrow area starts.
- On 11/30/06 Comanco, CDM and Ardaman inspected the liner installation at the Phase II east stormwater ditch, from approximately station 152+20 north to the northeast corner (panels 98 through 245). Four repair patches were noted. Comanco indicated that all are on GSE sheet and no GSE welding rod is available - they will attempt to get more rod..

Acceptances

- On 12/27/06, subgrade for liner installation, Phase II Slope Cover stormwater ditch, from station 102+50 to 101+00 (it was noted that the acceptance form has not been executed as yet - it should be available next meeting).

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 06-110A	Page 5 of 5
	Meeting Date: <u>12/28/06</u>	
	Report No: <u>93</u>	Report Date: <u>1/3/07</u>
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	

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 and FDEP also discussed last week. CDM indicated that the gravel work should start about 1/31/07, 2 weeks after soil cover work is resumed.
- A tabulation for grassing work to date was received by CDM from Compass, and forwarded to FDEP on 10/2/06. CDM provided an update with acreage information to Ardaman by email on 12/13/06. Additional information is necessary, for uncompleted activities as well as those being invoiced, in order to utilize this table to substantiate invoice quantities - Ardaman is presently preparing boundary maps and quantities.
- A change order request is in progress by CDM for changes to the SCP (including dredging) and the NCP slurry wall. Comanco provided liner quantities to CDM and Ardaman by email on 12/4/06 - Ardaman's last response to Comanco was by email on 12/22/06.

10.0 COMMENTS by FDEP

- Change Order SP644-016 (Phase I outlets/piping modifications, OGS-S liner repairs, and NGS-N west slope regrading) is in progress.
- After the construction meeting, additional discussions pertaining to the latest version of the construction schedule took place in conjunction with the CDM Operations meeting. FDEP identified and requested that CDM review and update as appropriate the sequence and timing for several tasks.

11.0 COMMENTS by HRK

- No comments.