

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 06-110A Meeting Date: <u>1/4/07</u> Report No: <u>94</u>	Page 1 of 5 Report Date: <u>1/10/07</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 (telecom), John Cameron, Tony Deatherage FDEP: CDM: Dean Carter, Jean Wilson, George Curry Comanco: Paul Moore Compass: Tim Morrow, Jeremy Giles Moretrench: Ralph Remmert, Mike Panny, Ronnie Branch 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
 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 11, 2006
Site Tour at 8:30 am followed by Construction
and CDM Operations Meetings

1.0 REVIEW MINUTES OF PREVIOUS MEETING

- CDM indicated by email on 1/8/07 of the following correction to Report No. 92 for the 12/21/06 construction meeting: 3.0 Summary of Work Performed by CDM, hauled soil fill from Larkin Nursery should have been reported as 2,160 cy (loose) as of 12/20/06.

2.0 SAFETY

- No safety incidents were reported..

3.0 SUMMARY OF WORK PERFORMED

Comanco:

- Essentially completed Phase II stormwater ditch grading and seepage collection drain installation. Drain has been completed from station 151+20 to 99+80. Continued installation of drain clean-outs, and inlet structure numbers 1 and 2 and outlet pipes.
- Continued Phase II ditch liner detail work. No liner was deployed this week (411,157 sf total as of 1/3/07).
- Completed 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, 1 Q/C trailers, 4 generators, 1 4-inch vacuum pump, 1 pipe fusion machine - 13 personnel.

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 to rough grade soil cover in the Phase I stormwater ditches - no new material was hauled this week.

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- Equipment: 6 dump trucks, 2 water trucks, 2 D6 dozers, 1 D8 dozer, 2 excavators, 2 motor graders, 3 club carts - 7 personnel. Some equipment (e.g., dump trucks) is not currently being used.

Moretrench

- Continued placing and grading fill at the Phase II stormwater pond bottom and perimeter dike.
- Equipment: 1 dozer, 1 compactor, 1 water truck, 1 grade-all - 4 personnel.

CDM

- Continued gypsum sediment removal from the Phase I stormwater ditches.
- Continued NGS-N wash-down and sludge removal.
- Completed prep work for the NCP upgrade project - hauling fill from Basin 2 and placing for a working bench inside the NCP.
- Equipment: 2 dump trucks, 2 dozers, 2 excavators, 1 4-inch diaphragm pump - 9 personnel. .

4.0 PROJECTED WORK FOR NEXT WEEK

Comanco:

- Continue work in the Phase II Slope Closure stormwater ditch - dewatering, fine grading and compaction, inlet structures installation and 80-mil liner installation.
- Start 60-mil liner installation at the Phase II north stormwater pond.

Compass:

- Continue repairing washouts and watering grassed areas.
- Resume hauling, placing and compacting soil fill in the Phase I ditches.

Moretrench

- Continue grading fill at the Phase II stormwater pond and perimeter dike.

CDM

- Start mud-waving to displace sludge / gypsum fines along the northern edge of the SCP-S cap.
- Continue gypsum sediment removal from the Phase I stormwater ditches.
- Continue NGS-N washdown and sludge removal.
- Start work to replace material at the Phase II stormwater pond which has been used by Moretrench to build the perimeter dike.
- Dredge America re-mobilized and is scheduled to resume dredging on 1/5/07.

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 on 12/28/06.
- Edgemon completed 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, 12/21/06 and 1/3/07, through station 131+30 in the west ditch.
- 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.

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- Edgemon began as-built surveys for the Phase II Slope Closure stormwater pond and liner subgrade on 12/29/06, and will continue as the work progresses by Comanco. Approval by Ardaman will be based on field notes signed by Edgemon's surveyor and provided by Comanco/CDM. CDM provided the 12/29/06 survey (drawing dated 1/2/07) at the meeting; however, work has since been performed by Moretrench in the survey area, and the as-built data needs to be updated. Ardaman indicated that survey points may be at 100-foot intervals, and requested additional survey points along the center of the pond bottom beginning at station 126+00.

6.0 PROJECT SCHEDULE

- Workdays lost to rain this reporting period: Comanco - 3, Compass - 2, Moretrench - 1, CDM - 0.
- The project schedule was last updated by CDM on 12/13/06. The schedule will be updated and distributed by email on 1/9/07.
- Compass is awaiting approval on permits for the Gulfstream II borrow area - earliest date for hauling is now about 1/22/07. Compass is scheduled to meet with Gulfstream on 1/10/07 to discuss site preparation.
- Inquip is now scheduled to start mobilization the week of 1/8/07. Ardaman requested that a pre-construction meeting be scheduled for 1/11/07.
- Weekend work schedule: Moretrench plans to work on Saturday.

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).

- 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 12/28/06 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.

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- 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. 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 - 292 passing, 1 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) - 47 marked, 46 passing, none failing, 1 pending. A summary of DT testing was updated on 1/3/07 (revision 8) and was distributed at the meeting.
- Phase II stormwater ditch liner anchor trench density tests - 54 passing, 2 failing, none pending.

Miscellaneous

- Rainfall: CDM reported 0.59 inches from 12/26/06 through 1/1/07.
- 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/punch list 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. HRK provided a report to FDEP by email on 12/29/06.
- 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"; Compass indicated that this will be done when hauling from the Gulfstream II borrow area starts.

Acceptances

- On 12/28/06, subgrade for liner installation, Phase II Slope Cover stormwater ditch, from station 102+50 to 101+00.

9.0 COMMENTS by PROGRAM MANAGER

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- 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 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, and will meet with CDM Compass after the meeting to discuss.
- 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

- FDEP was not represented at the meeting.
- Change Order SP644-016 (Phase I outlets/piping modifications, OGS-S liner repairs, and NGS-N west slope regrading) is in progress. FDEP sent the proposed change order by email on 12/28/06 to CDM for review.

11.0 COMMENTS by HRK

- HRK was not represented at the meeting.