

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 05-110A	Page 1 of 4
		Meeting Date: <u>12/22/05</u>	
		Report No: <u>41</u>	Report Date: <u>12 /28/05</u>
Project Name:	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
ATTENDEES: Ardaman: Rob Werner, John Cameron, Tony Deatherage Receiver: _____ FDEP: _____ CDM: Steve Solters, Mike Cruz, Jean Wilson Moretrench: Harley Frady, Ralph Remmert, Mike Panny Comanco: Brad DeNeve 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 Shuman, Steve Voytko, Mike Panny, Nick Haddon
 Comanco: Tom Topp, Brad DeNeve
 Compass: Chuck Icenogle, Vernon Giles, Tom McSweeny

Next Meeting is Scheduled for Thursday, January 5, 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 safety incidents were reported.

3.0 SUMMARY OF WORK PERFORMED

Moretrench:

- Hauled gypsum from the NGS-N Relief Ditch to the OGS north slope; 728 cy was hauled (by truck load estimate) since last report.
- Continued grading the OGS west slope and resumed excavating the west ditch.
- Completed finish grading and compacting the NGS-N Relief Ditch.
- Process Water usage this report - approximately 105,000 gallons.
- Equipment: 4 D-6 dozers, 1 D-8 dozer, 4 compactors, 1 backhoe, 1 water wagon, 2 dump trucks - 14 personnel.

Comanco:

- Prefabricated geocomposite for soil cover in the OGS-S Reservoir.
- Equipment: 1 QC trailer, 6 generators, 3 wedges, 4 extruders, 2 jumping jack compactors, 1 backhoe, 1 loader, 1 gator -18 personnel.

Compass:

- Continued segregating and screening soil stockpiles.
- Resumed hauling soil fill from Gulfstream I borrow area to the NGS-S Cap (west and east halves); 5,896 cy (by truck load estimate) was hauled since last report.
- Grassed amended gypsum on the Relief Ditch upper slopes where previously accepted for amendment and grassing.

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- Continued excavation of the # 5 pond.
- Fresh Water usage this report - approximately 30,000 gallons.
- Equipment: 8 dump trucks, 2 water wagons, 1 loader, 3 backhoes, 3 dozers, 3 power screens, 2 compactors, 2 motor graders - 22 operators. Added an 800 Titan screen and backhoe since last report; demobilized 1 dozer.

4.0 PROJECTED WORK FOR NEXT WEEK

Moretrench:

- Continue grading the OGS west slope.
- Moretrench indicated that material being excavated at the south end of the OGS west ditch is extremely hard, and plan to move to the north end where the excavation is shallower and has not been as difficult.

Comanco:

- Complete deployment of 40-mil liner on the on the NGS-S Cap perimeter road ~ station 111+00.
- Start installation of geocomposite in the OGS-S Reservoir.
- Start liner deployment in the NGS-N Relief Ditch, pending subgrade acceptance.

Compass:

- Continue segregating and screening soil stockpiles at Gulfstream I borrow area.
- Continue hauling soil fill to the NGS-N Cap.
- Correct soil cover on the OGS Cap areas where deficient.
- Start slope cover in the OGS-S Reservoir.

5.0 SURVEY NOTES

- Pickett performed an as-built survey on 12/6/05 for Compass of soil cover on the OGS Cap areas; Compass distributed copies of the survey on 12/16/05. The survey was reviewed and was discussed at the meeting, in addition to depth checks by Ardaman, and areas not in compliance were noted. See 8.0 Technical Items - Acceptances for more.
- Pickett performed a ground survey for CDM on 12/14/05 to document existing grades in the SCP south compartment; an electronic copy has been received by Ardaman - Ardaman will convert to a pdf file and distribute.
- Pickett performed an as-built survey for Moretrench on 12/15/05 on the NGS-N Cap perimeter road ~ station 111+00 for liner subgrade. The survey was received and reviewed by Ardaman on 12/21/05.
- Pickett performed an as-built survey on 12/21/05 for the balance of the NGS-N Relief Ditch. A copy was provided at the meeting to Ardaman for review.

6.0 PROJECT SCHEDULE

- Workdays lost to weather this reporting period: Moretrench 1, Comanco 0, Compass 1.
- The project schedule was updated by CDM through work performed on 12/21/05, and was distributed and discussed at the meeting: 1) geonet/liner work in the OGS north/west and south channels is now preceded by grass establishment on the slopes; 2) work for the Phase II slope closures has been re-scheduled to proceed from south to north (high end to low end); 3) activities will be added to more fully describe work for the SCP south compartment.
- See 8.0 Technical Items - Miscellaneous regarding potential schedule impacts on the OGS south slope and channel.
- Weekend work schedule: No work is planned by Contractors this weekend on Saturday, Sunday or Monday; Compass and Moretrench plan to work on Friday.

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).

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- CDM forwarded a submittal to Ardaman on 12/12/05 which was received from Compass for rye and bermuda grasses and fertilizer - the submittal was approved as noted by email on 12/19/05, except the fertilizer is not suitable for fertilizing soil cover areas.

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. 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. Drawing sets dated 12/16/05 were distributed at the 12/16/05 meeting for Slope Cover Construction - OGS Ponds.

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 specification document (Sections 24, 25, 26, 27, 28, 29 and 30, all revision 0, dated 7/6/05) on 7/7/05.

- A typical cross section indicating requirements for relocation of the 18x16 reducer and upstream gate valve on the OGS-S Compartment outlet pipe were provided by Ardaman at the 10/12/05 meeting.
- A copy of the sketch for lowering the concrete apron and bleeder orifice at the OGS-N Cap inlet that was previously sent to CDM via email on 12/21/05 was provided at the meeting.
- Drawings C-1 through C-5 (dated 11/28/05), were distributed at the 11/30/05 meeting for Phase II Closure of the NGS exterior slopes and lined stormwater ditches/ponds. Electronic (ACAD) versions were made available on Ardaman's ftp site on 12/1/05. Additional drawings were distributed at the 12/16/05 meeting as follows: drawings L-1 and L-2 (dated 12/16/05) and updated drawings C-2 and C-5 (dated 12/16/05). Full drawing sets, including all detail drawings for structures and drains, were delivered to CDM at the Site on 12/23/05.
- Drawings C-1 and G-6 (dated 11/28/05) were distributed at the 11/30/05 meeting for closure of the SCP south compartment. Additional drawings were distributed at the 12/16/05 meeting as follows: drawings G-1 through G-5 (dated 11/28/05), drawing C-2 (dated 11/28/05), drawings C-3 and C-4 (dated 12/7/05) and drawing L-1 (dated 11/28/05). Full drawing sets, including all detail drawings for structures and drains will be issued shortly.

Quality Control Activities

- Andaman had 6 technicians on site this reporting period.
- In-place gypsum density tests - 729 tests passing, 4 failing (1 at NGS-N Relief Ditch and 3 on OGS slopes), 1 pending.
- In-place soil fill density tests - no change - 62 passing, none failing, none pending.
- NGS-S Cap liner seam destructive testing (DT's): 38 marked, 38 passing, none failing, none pending. A summary report of testing status was last updated on 12/15/05 (revision final). At least 1 additional DT will be required on the perimeter road ~ station 111+00.
- NGS-S Cap 40-mil liner roll conformance testing - summary of testing status report was last updated on 11/17/05 (revision 2) - all rolls were conditionally approved for deployment at the 11/17/05 meeting.
- NGS-N Relief Ditch 60-mil liner roll conformance testing - summary of testing status report dated 12/22/05 (revision 1) was distributed at the meeting - 23 rolls (of 23 total) are conditionally approved for deployment.

Miscellaneous

- Rainfall: CDM reported 0.15 inches from 12/15/05 through 12/19/05.
- CDM was requested to wrap the existing screen around the OGS-S inlet with geotextile fabric prior to initiation of slope cover by Compass.
- Regarding the gypsum material presently stockpiled along the OGS south toe of slope - As outlined last report, Moretrench indicated their intent to delay disposition of this material until the OGS south ditch cut/fill and liner subgrade preparation are completed prior to determining whether to push the "excess" gypsum up onto the OGS south slope or to haul the material for use elsewhere. CDM indicated that this delay was not acceptable, for scheduling reasons.

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- Moretrench indicated that material being excavated at the south end of the OGS west ditch is very hard, and that they are considering submitting an extra claim for this work before proceeding further. Consequently, Moretrench intends to focus near-term grading operations on the northern portion of the Phase I stormwater ditch, starting at the north end along the west side of the NGS-N Compartment and proceed toward the south.
- It was noted that existing sand-cement ballast bags will need to be removed from their present locations in the OGS-S Reservoir during slope cover construction - Contractor responsibility for this activity was discussed without resolution.

Acceptances

- NGS-N Relief Ditch gypsum subgrade for liner - on 12/20/05, from station 202+00 to 209+00, subject to correction of exceptions as noted.
- NGS-S Cap gypsum subgrade for liner - on 12/21/05, perimeter road at station 111+00.
- OGS-S Cap, OGS-N Cap and OGS slope pond soil cover for grassing - on 12/20/05, the OGS-S Cap pond, the OGS slope pond, and the road on north side of OGS slope pond; refer to Ardaman email on 12/20/05 re status of other areas.

9.0 COMMENTS by PROGRAM MANAGER

- Change Order # 7 for gypsum cut/fill quantities was signed by CDM and forwarded to FDEP on 12/16/05. [Change Order No. 7 was approved by FDEP 12/22/05].
- Reconciliation of Compass pay quantities for soil fill and grassing is in progress. CDM/Compass previously submitted soil fill quantities to Ardaman and FDEP for review, except for the NGS-N Relief Ditch (quantity estimate pending).
- CDM/Compass forwarded a cost proposal to install the OGS-S filter drain to FDEP on 12/8/05.
- Regarding the current condition of the existing grass on the west slope of the NGS-N Compartment, CDM previously advised of their intent to re-fertilizer via the sprinkler system.
- CDM indicated that the NGS-N spray evaporation system has been shut down the past few days, due to concerns of pond water over-spray from northerly/easterly winds.

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***Next Meeting is Scheduled for Thursday, January 5, 2006
Site Tour at 8:00 am followed by
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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 gypsum from the NGS-N Relief Ditch to the OGS north slope; 728 cy was hauled (by truck load estimate) since last report.
- Continued grading the OGS west slope and resumed excavating the west ditch.
- Completed finish grading and compacting the NGS-N Relief Ditch.
- Process Water usage this report - approximately 105,000 gallons.
- Equipment: 4 D-6 dozers, 1 D-8 dozer, 4 compactors, 1 backhoe, 1 water wagon, 2 dump trucks - 14 personnel.

Comanco:

- Prefabricated geocomposite for soil cover in the OGS-S Reservoir.
- Equipment: 1 QC trailer, 6 generators, 3 wedges, 4 extruders, 2 jumping jack compactors, 1 backhoe, 1 loader, 1 gator -18 personnel.

Compass:

- Continued segregating and screening soil stockpiles.
- Resumed hauling soil fill from Gulfstream I borrow area to the NGS-S Cap (west and east halves); 5,896 cy (by truck load estimate) was hauled since last report.
- Grassed amended gypsum on the Relief Ditch upper slopes where previously accepted for amendment and grassing.

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- Fresh Water usage this report - approximately 30,000 gallons.
- Equipment: 8 dump trucks, 2 water wagons, 1 loader, 3 backhoes, 3 dozers, 3 power screens, 2 compactors, 2 motor graders - 22 operators. Added an 800 Titan screen and backhoe since last report; demobilized 1 dozer.

4.0 PROJECTED WORK FOR NEXT WEEK

Moretrench:

- Continue grading the OGS west slope.
- Moretrench indicated that material being excavated at the south end of the OGS west ditch is extremely hard, and plan to move to the north end where the excavation is shallower and has not been as difficult.

Comanco:

- Complete deployment of 40-mil liner on the on the NGS-S Cap perimeter road ~ station 111+00.
- Start installation of geocomposite in the OGS-S Reservoir.
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5.0 SURVEY NOTES

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Miscellaneous

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- CDM was requested to wrap the existing screen around the OGS-S inlet with geotextile fabric prior to initiation of slope cover by Compass.
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- It was noted that existing sand-cement ballast bags will need to be removed from their present locations in the OGS-S Reservoir during slope cover construction - Contractor responsibility for this activity was discussed without resolution.

Acceptances

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- NGS-S Cap gypsum subgrade for liner - on 12/21/05, perimeter road at station 111+00.
- OGS-S Cap, OGS-N Cap and OGS slope pond soil cover for grassing - on 12/20/05, the OGS-S Cap pond, the OGS slope pond, and the road on north side of OGS slope pond; refer to Ardaman email on 12/20/05 re status of other areas.

9.0 COMMENTS by PROGRAM MANAGER

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