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| <b>ARDAMAN &amp; ASSOCIATES, INC.</b><br><b>PROGRESS MEETING REPORT FOR</b><br><b>PINEY POINT GYPSUM STACK SYSTEM CLOSURE</b>                                                                                                                                                   |                                                                                                        | File No.: 06-110A             | Page 1 of 4                                                                               |
|                                                                                                                                                                                                                                                                                 |                                                                                                        | Meeting Date: <u>10/19/06</u> |                                                                                           |
|                                                                                                                                                                                                                                                                                 |                                                                                                        | Report No: <u>83</u>          | Report Date: <u>10/25/06</u>                                                              |
| Project Name:                                                                                                                                                                                                                                                                   | <b>CLOSURE CONSTRUCTION - OGS SLOPES, TOP CAPS &amp; RELIEF DITCH, SCP-S AND PHASE II - NGS SLOPES</b> |                               | Project Address: 13300 U.S. Highway 41 North<br>Palmetto, Florida 34221<br>Manatee County |
| <b>ATTENDEES:</b><br>Ardaman: Nadim Fuleihan, Rob Werner, John Cameron, Tony Deatherage<br>FDEP: John Coates, Sam Zamani<br>CDM: Dean Carter, Mike Cruz, Steve Solters, Jean Wilson, George Curry<br>Comanco: Tom Topp<br>Compass: Tom McSweeney, Jeremy Giles<br>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  
 HRK: Art Roth, Ivan Nance

***Next Meeting is Scheduled for Thursday, October 26, 2006***  
***Field Meeting with GSE Representative at 8:30 am***  
***followed by Construction/Engineering Meeting***

## 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 260 ft of drain this week (from station 141+00 to 137+40).
- Also continued Phase II ditch liner installation. Installed about 4,272 sf this week (158,878 sf total as of 10/17/06). Note: Detail work is essentially on hold pending satisfactory resolution of the extrusion welding problems - see 8.0 Technical Items - Miscellaneous for more.
- Equipment: 2 excavators, 2 dozers, 2 plate compactors, 2 3-inch pumps, 1 4-inch vacuum pump, 1 loader, 1 track crawler dump, 1 mini-excavator, 1 trailer, 2 pick-up trucks, 1 crew van, 2 QC trailers, 6 generators, 1 smooth-drum roller- 30 personnel. Mobilized 1 additional excavator for ditch cleaning.

### Compass:

- Well Water usage - 70,000 gallons used for dust control since last report.
- Continued backfilling erosion gullies on the OGS west slopes.
- Completed fertilizing on all grass/sod areas.
- Equipment: 5 dump trucks, 1 water truck, 2 D6 dozers, 1 D8 dozer, 2 excavators, 1 motor grader - 7 personnel.

### CDM

- Started clean up of eroded soil sediment which has been deposited south of the fence line along Buckeye Road.
- Resumed dewatering and stockpiling gypsum sediment/sludge in SCP-S Cap area.

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#### 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 backfilling erosion gullies on the OGS west slopes.
- Start silt fencing at the Gulfstream II borrow area.

##### CDM

- Continue repairs to the soil berm south of the OGS south stormwater ditch, and cleaning up eroded soil sediment which has been deposited south of the fence line along Buckeye Road.
- Continue site preparation activities in the SCP-S Cap area. Also plans to partition the north channel and start dewatering the east side (by pumping).

#### 5.0 SURVEY NOTES

- 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; CDM was requested to re-survey and to measure water levels in MW-13 and nearby piezometer(s). CDM provided results to Ardaman at the meeting.
- CDM provided a pdf file to Ardaman by email on 10/10/06 of as-built survey data for the Phase I stormwater ditch inboard anchor trench liner extensions - see 8.0 Technical Items - Miscellaneous for more.
- 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 10/17/06. The updated schedule was distributed and discussed at the meeting.
- CDM was requested to link projected watershed removal dates to appropriate scheduled grass maturation dates.
- Regarding resumption of soil cover, Compass indicated tentative plans to start hauling soil cover at a reduced rate (material excavated in conjunction with planned site preparation activities in the Gulfstream II site) in approximately 2 weeks (starting on 11/2/06). Full-scale hauling from the Gulfstream II area will not start until after a SWFWMD meeting which is presently scheduled on 11/30/06-12/1/06.
- Weekend work schedule: Comanco 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).

#### 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,

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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 10/5/06 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.
- Preliminary drawings were distributed at the 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 files and detail drawings will follow. Specifications are the same as those in effect for the SCP-S Process Water Pond.

### 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 - 153 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) - 19 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 - no change - 17 passing, 11 failing, none pending.

### Miscellaneous

- Rainfall: CDM reported 0.15 inches from 10/12/06 through 10/17/06.
- Regarding resolution of the extrusion welding problems, a 10/16/06 report by GSE to Comanco was forwarded by CDM to Ardaman by email on 10/18/06. However, Ardaman's response on 10/18/06 indicated that GSE's report did not definitively determine the source of the extrusion weld problems as requested, nor did it recommend measures that could be taken to prevent future occurrences and enable normal production extrusion welding to resume. CDM/Comanco were requested to provide a plan (and schedule) for additional investigations as needed to resolve this issue.
- Ardaman, CDM and FDEP (Scott Rose) observed conditions in the seepage breakout on the access road along the north toe of the return ditch containment berm. Ardaman summarized observations and provided recommendations to the Department by email on 10/16/06. CDM was requested to respond to the recommendations.
- 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, and CDM reported water sampling results at the 10/12/06 meeting. CDM and Ardaman will continue to monitor seepage flow at this location.

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- CDM provided a pdf file to Ardaman by email on 10/10/06 of as-built survey data for the Phase I stormwater ditch inboard anchor trench liner extensions. A preliminary review of the data indicates that the liner extensions may or may not still be short in some areas, depending on the steepness of the slope when the liner extension is actually installed on a smooth and compacted subgrade. In order to assure compliance, the elevation of the liner extension should be re-surveyed after final installation.
- Compass indicated their intent at the meeting to import soil cover materials from a borrow area other than Gulfstream II. CDM/Compass were requested to identify the potential borrow site. Upon request, Ardaman will accompany CDM/Compass to the proposed site(s) and take bulk samples for geotechnical testing. [Chemical screening will also be required].

#### Acceptances

- On 10/16/06, subgrade for liner installation, Phase II Slope Cover stormwater ditch, from station 144+00 to 140+50.
- On 10/19/06, subgrade for liner installation, Phase II Slope Cover stormwater ditch, from station 140+50 to 138+50.

#### 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 has reviewed input provided by Compass on 9/28/06, and emailed quantities to FDEP and Ardaman for review.
- 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 submitted a change order request for this work, and received comments by FDEP on 10/18/06.
- 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 10/12/06 meeting; CDM was requested to include a tabulation of acres for each area worked.

#### 10.0 COMMENTS by FDEP

- CDM was requested to re-grass the NGS-S east slope as needed.

#### 11.0 HRK

- No comments.