

|                                                                                                                                                                                                                                                                                                       |                                                                    |                             |                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------|
| <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>5/8/08</u> |                                                                                           |
|                                                                                                                                                                                                                                                                                                       |                                                                    | Report No: <u>162</u>       | Report Date: <u>5/15/08</u>                                                               |
| Project Name:                                                                                                                                                                                                                                                                                         | <b>CLOSURE CONSTRUCTION - NGS SLOPES, SCP-S, SCP-N AND BASIN 2</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, Jonathan Alden<br>CDM: Dean Carter, Mike Cruz, Jean Wilson, George Curry<br>Comanco: Paul Moore<br>WRS/Compass: Jeremy Giles, Joseph Gunn<br>HRK/ECT: Art Roth, Jeff Barath |                                                                    |                             |                                                                                           |

**COPY TO:** FDEP: Phil Coram, Sam Zamani, John Coates  
 Ardaman: Nadim Fuleihan, Rob Werner, Tom Leto, John Cameron, Tony Deatherage  
 CDM: Dean Carter, Michael Edgar, Michael Cruz, Dick Slovarp, Jean Wilson  
 Comanco: Tom Topp, Paul Moore  
 Compass: Tim Morrow, Jeremy Giles  
 HRK: Art Roth, Ivan Nance

***Next Meeting is Scheduled for Thursday May 15, 2008***  
***Construction/Engineering Meeting at 9:00 am***

**1.0 REVIEW MINUTES OF PREVIOUS MEETING**

- No corrections were reported.

**2.0 SAFETY**

- No accidents were reported.

**3.0 SUMMARY OF WORK PERFORMED**

**Compass**

- Continued grading and compacting soil cover on liner in the SCP stormwater pond and ditches (north and south). No material was hauled this reporting period.
- Continued working to repair rip-rap pad at structure #4 (Phase II Slope Closure).
- Continued re-grading soil cover on the NGS-S Cap roads.
- Equipment: 1 dump truck, 1 water truck, 4 D-6 dozers, 2 excavators, 1 grader, 2 clubcars, 10 personnel.

**Comanco**

- No work was performed this report.

**CDM**

- No contract work was performed this report.

**4.0 PROJECTED WORK FOR NEXT WEEK**

**WRS/Compass**

- Continue grading and compacting soil cover on liner in the SCP stormwater pond and ditches; Compass anticipates that they will still be working 3 dozers on soil cover placement and grading for 2 more weeks, and that work towards final grading, geocomposite installation, rip rap pad grading and grassing will continue for at least 4 more weeks.

|                                                                                                                               |                             |                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------|
| <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 2 of 4                                                                               |
|                                                                                                                               | Meeting Date: <u>5/8/08</u> |                                                                                           |
|                                                                                                                               | Report No: <u>162</u>       | Report Date: <u>5/15/08</u>                                                               |
| <b>CLOSURE CONSTRUCTION - NGS SLOPES, SCP-S, SCP-N</b><br><b>AND BASIN 2</b>                                                  |                             | Project Address: 13300 U.S. Highway 41 North<br>Palmetto, Florida 34221<br>Manatee County |

- Install geocomposite on SCP Basin 2 east slope
- Continue repairs to the rip-rap pad at structure #4 (Phase II Slope Closure).
- Sod soil cover on the NGS-S Cap roads, pending soil cover acceptance.

#### **Comanco**

- Will order additional 80-mil liner for closure of the gypsum stack crest roads.

#### **CDM**

- Continue installation of concrete aprons at seepage collection system clean-outs and install rip-rap pads, pending soil cover by WRS/Compass.

### **5.0 SURVEY NOTES**

- As-built survey of OGS-S crest roads were provided by CDM to Ardaman by email on 8/16/07. Ardaman responded with comments on 9/19/07. CDM updated the survey with stations and sent by email to Ardaman on 10/8/07.
- CDM/Compass/Edgemon continued as-built surveys for various SCP Phase II and Slope Closure Phase II installations, as needed.
- An updated as-built survey of the NGS Cap Roads was provided by CDM on 5/7/08. The roads with soil cover still need additional soil at most locations to provide adequate slope for drainage across the roads. Specific comments were emailed on 5/7/08, and alternative comments for the northeast corner were provided to CDM after the meeting.

### **6.0 PROJECT SCHEDULE**

- No workdays were lost to weather since last report.
- CDM will meet with Compass and Comanco next week and update the schedule prior to next meeting, including tasks covered by Change Order 21 and the Dispute Resolution Agreement executed on 5/21/08.
- CDM/Compass indicated that erosion repairs for the Phase II stormwater ditch soil cover, and restoration of the sodded area, is tentatively planned to start after completion of soil cover work in the SCP. A detailed repair plan is being developed by CDM/Compass.
- Ardaman specifically requested CDM to prepare a detailed schedule showing completion of all activities deemed necessary precursors to closure of the NCP and closure of the Second 50% Plant Watershed Areas in order to enable Ardaman to produce construction drawings in a timely manner. See 10.0 Comments by FDEP for more.
- Weekend schedule: no work is planned this weekend.

### **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 Mike Cruz (CDM).

### **8.0 TECHNICAL ITEMS/CLARIFICATIONS AND QUALITY ASSURANCE**

Current Closure Construction Drawing Versions are summarized below. (See Meeting Minutes No. 122 or earlier for detailed version control background information):

- Phase II Slope Closure: Sets dated 12/22/05; except for drawing nos. C-1 (rev. 2) and D-2 (rev. 1) dated 12/13/06.
- SCP-S, SCP-N & Basin 2 Closure: Sets dated 11/8/08. Note that supplemental drawings were distributed at the 3/29/07 meeting to clarify installation of the SCP-S seepage collection drain system between point nos. 14 and 23 (end of drain). It was noted at the 4/5/07 meeting, the east end of the drain and limits of the lined stormwater ditch will be shortened to accommodate installation of a cut-off wall associated with the proposed Buckeye Road groundwater collection drain. See 8.0 Technical Items - Miscellaneous for more.

|                                                                                                                               |                             |                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------|
| <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 3 of 4                                                                               |
|                                                                                                                               | Meeting Date: <u>5/8/08</u> |                                                                                           |
|                                                                                                                               | Report No: <u>162</u>       | Report Date: <u>5/15/08</u>                                                               |
| <b>CLOSURE CONSTRUCTION - NGS SLOPES, SCP-S, SCP-N</b><br><b>AND BASIN 2</b>                                                  |                             | Project Address: 13300 U.S. Highway 41 North<br>Palmetto, Florida 34221<br>Manatee County |

- First 50 percent - Plant Watershed Areas: Drawings C-1, C-2, D-1, D-2 and D-3 were distributed at the 4/5/07 meeting for the. Drawing C-1, revision 1 and a CD were distributed in May 2007. Updated signed and sealed Drawings (that indicate work already completed in conjunction with change order #20 were issued at the 5/8/08 construction meeting; electronic CD copies were also provided.
- Ardaman issued revised "For Construction" drawings for the south drain and lined ditch segment east of Outfall 003 (to enable completion of the SCP south seepage drain and lined ditch segment east of Outfall 003 in advance and independently of construction associated with a Buckeye Road Groundwater Collection System). SCP Closure drawings C-1 (Rev. 5 dated 2/8/08), C-1A (Rev. 0 dated 2/8/08) and D-7 (Rev. 2 dated 2/11/08) were provided in pdf format via email of 2/12/08. Electronic CAD files were posted on Ardaman's ftp web site on 2/14/08.

Regarding specifications, pertinent Phase III - NGS-S Reservoir Closure Specifications and ITN specification documents shall be used. Pertinent ITN specifications, along with specifications for HDPE panel drains and concrete erosion control mats, were compiled in a 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.

- Ardaman issued preliminary drawing sets, dated 8/8/07, rev. P1 - For Review, for the Buckeye Road Groundwater Collection System at the meeting. These drawings include the revised design for the south drain and lined ditch segments east of Outfall 003 (for compatibility with the proposed collection drain and cutoff wall).
- Regarding closure of the NGS-N crest roads, Ardaman replied to CDM's proposed location for placement of gypsum to be excavated to lower the crest roads to grade in a 6/6/07 email. A marked-up copy of the proposed typical cross section for placement of gypsum on the north end of the NGS-S east slope was provided at the meeting. See 8.0 Technical Items, Miscellaneous for more.

### Quality Control Activities

- Ardaman had 4 technicians on site this reporting period.
- In-place soil cover density tests  
SCP Phase II - 146 passing, 5 failing, none pending.
- Liner conformance testing - no change  
Table 1 revision 7 was last updated on 8/8/07 for SCP 40-mil smooth and 40-mil textured. Table 2 was updated on 10/25/07 (revision 11) for 80-mil textured; 30 of 30 rolls have been tested and conditionally approved. Table 3 was updated on 10/25/07 (revision 11) for 60-mil textured; 115 of 115 rolls have been tested and conditionally approved. [Note: additionally, 5 rolls of 60-mil and 8 rolls of 80-mil liner were conditionally approved for installation at the 2/7/08 meeting.]

### Miscellaneous

- Rainfall was reported by CDM at 0.00" from 4/30/08 through 5/6/08.
- CDM and Ardaman continue to monitor the Granddaddy Boil location.
- Ardaman will provide drawings for protection of the twin 18" gate valves on the NGS-N outlet pipeline and plans for final grading of the existing low area around the valves at the northwest corner on the NGS-N.
- See Minutes of Meeting 146 and prior for discussion related to removal and placement of gypsum generated in conjunction with planned closure of the NGS-N west and north crest roads.
- Regarding erosion repairs on the Phase II slopes, it was noted during the site tour on 12/13/07 that there are a few small isolated areas on the upper slope that may need more work.
- It was noted at the 7/5/07 meeting that the 24" NGS-N outlet pipe along the NGS-N west road was gouged at several locations; CDM will be advised whether or not repairs are necessary.
- Regarding liner installation for closure of the NGS-N south crest road, acceptable methods for lining around the existing (and in-service) spray system tie-down bollards was discussed at the 8/23/07 meeting. Additionally, a plan will need to be formulated regarding logistics for handling the SE-1 spray evaporation system header.
- Ardaman will provide design figures for grading, woven geotextile installation, soil capping and grassing to grade out the NGS-S south slope access ramp to reduce erosion-related maintenance needs.

|                                                                                                                               |                             |                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------|
| <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 4 of 4                                                                               |
|                                                                                                                               | Meeting Date: <u>5/8/08</u> |                                                                                           |
|                                                                                                                               | Report No: <u>162</u>       | Report Date: <u>5/15/08</u>                                                               |
| <b>CLOSURE CONSTRUCTION - NGS SLOPES, SCP-S, SCP-N</b><br><b>AND BASIN 2</b>                                                  |                             | Project Address: 13300 U.S. Highway 41 North<br>Palmetto, Florida 34221<br>Manatee County |

- It was agreed that the width of the SCP south perimeter road should be field adjusted at some locations in order not to encroach on the Buckeye Road drainage ditch.
- It was noted at the 2/27/08 meeting that significant erosion of soil cover materials from beneath the sod on the inboard slope of the Phase II NGS-N north stormwater has occurred, most severely in the portion of the ditch west of station 109+00. Large erosion gullies and voids were found to exist beneath the sod and substantial soil sediment deposits were observed in the invert of the stormwater collection ditch. CDM/Compass were requested to evaluate the situation and develop a course of corrective action.
- CDM requested pump and motor specifications at the 3/6/08 meeting, for pumps to be installed in the 48-inch manhole sumps located at both ends of SCP seepage collection system.
- CDM is monitoring the water level in Basin 1 (the outlet from which has been temporarily blocked) and can operate a portable pump as needed to convey water to the process system.
- It was noted that geocomposite is exposed at the top of the northwest ramp, indicating complete loss of soil cover on the geocomposite and perhaps on the liner as well. Ardaman will inspect the geocomposite and liner for damage. The minimum soil cover thickness needs to be restored in area as soon as possible.
- It was noted that roads were very dry and powdery; trafficked roads should be watered to control dusting.
- The proposed gate valve protection scheme and final grading/dressing plans for the NGS-N outlet pipe valves located at the northwest corner of the NGS-N were discussed. On-site available concrete pipe sections and gravel materials will be used to create valve protection sleeves. Gypsum materials on the slope immediately up-gradient of the valves will be used to grade/dress the area to promote runoff away from the valves. Ardaman will provide installation and grading details. CDM agreed that this will be undertaken as part of stack maintenance.
- The south access ramp will be regraded as part of stack maintenance to reduce erosion and improve runoff control. The toe of the ramp will be pulled back towards the stack and the ramp will be crowned. Ardaman will provide grading details.

#### Acceptances

- None since last report.

#### 9.0 COMMENTS by PROGRAM MANAGER

- Change Order 21 was executed by the Department and received by CDM on 5/1/08. This change order includes authorization for slurry wall and related work for the Buckeye Road Groundwater Collection System.
- A Dispute Resolution Agreement - Part 1, CDM Claims for Additional Costs, was executed by the Department and received by CDM on 5/1/08. This agreement includes authorization for crest roads, the First 50 percent - Plant Watershed Area, and modifications to the OGS Reservoir.

#### 10.0 COMMENTS by FDEP

- Additional items still in dispute with CDM were discussed and resolved in a meeting on 5/6/08. A draft of Dispute Resolution Agreement - Part 2 is in progress.
- Regarding the Project Schedule, the Department requested CDM to include significant future long-term tasks and milestones, conceptual in nature, including but not limited to the following:
  - Removal of 80 MMGal of process water from various ponds
  - Removal of process water and sludge from the NGS-N
  - Operational deactivation of the return canal (by extending the NGS-N discharge pipeline to bypass the canal)
  - Second 50 percent Plant Watershed Area, in phases including: (i) return canal and adjacent seepage ditch; (ii) aeration ponds A-D; (iii) treatment ponds 1 & 2; (iv) "T-bone Area" north of Outfall 003.
  - Buckeye Road Cutoff Wall and Groundwater Collection Drain system.
  - North Cooling Pond.

#### 11.0 COMMENTS by HRK

- Some TENORM materials still being identified in the plant (i.e., 32" RLCS) is being stockpiled for disposal in the NCP.