

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 06-110A	Page 1 of 5
		Meeting Date: <u>9/23/10</u>	
		Report No: <u>270</u>	Report Date: <u>10/7/10</u>
Project Name:	CLOSURE CONSTRUCTION NCP CAP & PLANT WATERSHED AREAS	Project Address: 13300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee County	
<u>ATTENDEES</u> Ardaman: John Cameron, Tony Deatherage FDEP: John Coates CDM: Mike Cruz, Osvaldo Ellis Comanco: Dave Barnett Compass: Jeremy Giles, Tim Morrow HRK/ECT:			

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
 Comanco: Tom Topp, Dave Barnett
 Compass: Tim Morrow, Jeremy Giles
 HRK: Art Roth, Jeff Barath

Next Meeting is Scheduled for Thursday, October 7, 2010 at 9:00 AM

1.0 REVIEW MINUTES OF PREVIOUS MEETING

- No corrections were noted.

2.0 SAFETY

- As reported at the construction meeting on 8/5/10, two dump trucks from the Stathas borrow pit made contact on the NCP job site on Tuesday 7/27/10. A written report will follow.

3.0 SUMMARY OF WORK PERFORMED

Compass

- Continued soil cover on liner in the NCP; installed panel drain.
- No freshwater was used since last report.
- Equipment: 1 water wagon, 1 D-6 dozer, 2 D-3 dozers, 1 grader, 1 loader, 1 compactor, and 1 club cart; 5 operators and 4 laborers. 1 loader was mobilized since last report.

Comanco

- All work was completed at the NCP liner, except about 6,062 sf at the temporary Kelly well; installed 1 gas vent to relieve air.
- Started 80-mil liner on the road cap between the GBD and OGS north ditch (10,294 sf installed to date by Ardaman measurement).
- Installed HDPE protection box at the underdrain modification at the northwest corner of the NGS-N (punch list item).
- Removal of debris and eroded material at erosion protection pads in progress (punch list item).
- Equipment: 1 loader, 1 skid steer, 1 mini excavator, 21 personnel.

CDM

- Completed valve extension at the NGS-N outlet pipe (punch list item); different parts have been ordered for the OGS-S outlet.
- Mowed A-B-C-D ponds (2nd 50%), SCP, NGS-N stormwater pond, OGS caps, NGS cap, Relief Ditch
- Equipment: 1 water wagon, 1 personnel

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 06-110A	Page 2 of 5
	Meeting Date: <u>9/23/10</u>	
	Report No: <u>270</u>	Report Date: <u>10/7/10</u>
CLOSURE CONSTRUCTION NCP CAP & PLANT WATERSHED AREAS	Project Address: 13300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee Co	

4.0 PROJECTED WORK FOR NEXT WEEK

Compass

- Continue soil cover on liner in the NCP. Soil is being trucked from the Stathas pit (formerly Larkin).

Comanco

- Continue dewatering NCP.
- Continue detail work on the 80-mil liner road cap between the GBD and the OGS north ditch.
- Continue work on punch list items.

CDM

- Continue installation of valve extensions (punch list item).
- Continue mowing.
- Grass soil cover NCP east side.

5.0 SURVEY NOTES

- CDM/Edgemon and/or CDM/Hamilton provided as-built surveys for ongoing work as necessary.
- Ardaman has been reviewing as-built surveys provided by CDM on a piece-wise basis for all of the project areas since the time Edgemon has been providing surveying services to CDM. Ardaman requested CDM to provide certified composite survey drawings for each project area for inclusion in the final completion reports. Ardaman will work with CDM/Edgemon to specify the required as-built drawing inventory.

6.0 PROJECT SCHEDULE

- No workdays were lost to weather since last report.
- CDM emailed a spreadsheet-type schedule for the NCP on 8/5/10. Schedule completion milestones were updated as follows: liner on 9/10/10 (including detail work), soil cover on 10/8/10, and grassing 10/22/10, including the 80-mil cap on the road between the OGS north stormwater ditch and Granddaddy Boil ditch. Also to be completed within this time frame is soil cover on the NCP south dike, including relocation of 16" and 24" HDPE pipes as needed. Work on the road between the GBD and the OGS north stormwater ditch is in progress. CDM forecast that soil cover would be complete on 10/8/10; Compass forecast 10/15/10.
- Compass plans to work on Saturday, weather permitting.

7.0 SHOP DRAWINGS and SUBMITTALS

- No submittals are outstanding at this time.

8.0 TECHNICAL ITEMS/CLARIFICATIONS AND QUALITY ASSURANCE

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.

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

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 06-110A	Page 3 of 5
	Meeting Date: <u>9/23/10</u>	
	Report No: <u>270</u>	Report Date: <u>10/7/10</u>
CLOSURE CONSTRUCTION NCP CAP & PLANT WATERSHED AREAS	Project Address: 13300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee Co	

- 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.
- 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. 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 final drawings for the NCP Seepage Ditch Closure and remainder of the Phase I seepage collection drain at the 10/30/08 construction meeting.

Second 50 percent - Plant Watershed Area - Drawings C-1, C1a, C2 and C-3 were issued as hard copies and electronic files at the 11/20/08 construction meeting. CAD files of these drawings were also uploaded to Ardaman's ftp site on 11/25/08 for CDM's convenience, along with copies of historic aerial topographic survey files taken during Receivership before and after construction of aeration ponds A-D. A copy of the drawings were also provided to HRK at the 11/20/08 meeting for their review and comment. Details Drawings D-1 through D-6 for the hydraulic structures were provided via ftp transfer to CDM on 12/8/08. Detail drawings D7 and D8 were distributed electronically on 12/23/08, and are available on Ardaman's ftp site.

Drawings were issued in March 2009 for the additional Second 50% Plant Watershed Area - Aeration Ponds 1 and 2 and the Western Return Canal.

- Additional half-size copies of the Second 50% Plant Watershed were distributed at the 7/9/09 construction meeting. Ardaman also distributed a layout drawing to relocate the 12" HDPE discharge pipe from the lower ditch 48" manhole to Basin 2. As requested, CD's of the CAD drawings for the 2nd 50% and NCP closure were provided at the 8/13/09 construction meeting, along with a few additional copies of the full size prints (same drawings as previously issued).
- Ardaman distributed drawings for a proposed modification to the NGS-N north ditch collection drain discharge into the NCP north ditch.

Quality Control Activities

- Ardaman had 4 technicians on site this reporting period.
- In-place density tests soil cover on liner
Soil cover is ongoing in the NCP; testing will follow when appropriate.
- Liner seam destructive testing (DT's)
NCP top closure - 134 marked, all passing, none pending - COMPLETE
Cap road between GBD and OGS north ditch - 2 marked, 2 pending..

Miscellaneous

- Rainfall was reported by CDM at 2.41 inches from 9/7/10 through 9/20/10.
- Regarding current conditions of various grassed areas, Ardaman made a visual inspection after the construction meeting on 9/16/10, particularly observing the stack crest roads, First and Second 50% plant watershed areas, SCP and Basin 2 areas, and the Phase II stormwater pond. Conditions within the OGS Caps, NGS-S Cap and NGS-N Relief Ditch were also observed. With the exception of the stack crest roads, conditions appear to be suffering from a need for mowing to reduce weed and volunteer vegetation dominance and to encourage grass establishment and growth. These areas were toured and reviewed before this construction meeting with Ardaman, John Coates and Dean Carter. CDM indicated that Seminole grassing is scheduled to return to the site for mowing next week and CDM will consult with Seminole regarding means to reduce undesirable vegetation and to promote better Bermudagrass establishment and growth.
- Regarding air entrapment under the NCP liner in some locations, a few vent pipes may be installed if necessary to relieve air.

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 06-110A	Page 4 of 5
	Meeting Date: <u>9/23/10</u>	
	Report No: <u>270</u>	Report Date: <u>10/7/10</u>
CLOSURE CONSTRUCTION NCP CAP & PLANT WATERSHED AREAS	Project Address: 13300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee Co	

Acceptances

- On 9/16/10, NCP liner acceptance, remainder except ~6,062 sf at temporary Kelly well.
- On 9/23/10, subgrade for liner, road between GBD and OGS north ditch.
- ON 9/23/10, soil cover for grassing, NCP from east flow line east to NGS-N west toe road.

9.0 COMMENTS by PROGRAM MANAGER

- Submitted a change order request to FDEP on 10/12/09 regarding NCP Closure ancillary additions, received comments on 10/21/09, and responded on 11/23/09. A conference call meeting was subsequently held with FDEP and Ardaman, and CDM submitted additional information which has since been discussed. CDM is presently reviewing grassing quantities with Ardaman. CDM modified the proposed Change Order and submitted to the Department on 4/1/10. A proposed change order was updated and sent to the Department on 4/20/10. A revised draft was received on 5/25/10 from FDEP and discussed by conference call on 5/26/10 and 6/8/10. A written response was submitted to FDEP on 7/28/10. FDEP responded on 8/11/10. CDM responded to the FDEP 8/1/10 letter on 8/31/10.
- Regarding Dispute Resolution, CDM met with FDEP in Tallahassee on 12/2/09. A follow-up meeting was held on 1/6/10; discussions are ongoing. An extension to CDM's contract was executed by FDEP on 8/23/10 (the contract extension is through 1/28/11). CDM notified FDEP of a proposed date to resume discussions.
- CDM continues to visually monitor outfalls 001 and 003 for discoloration.
- Regarding Phase I stormwater ditches which were impacted by the break in the SE-1 spray header pipe, CDM is developing plan for restoration of the grass and cover as needed, particularly within the northern portion of the Phase I ditch system. It appears that the grass condition in the NGS-N west ditch section is starting to improve. During the site tour, CDM described plans to dewater the OGS-N north ditch and start removing the dead vegetation. The ditch system is currently open to the south stormwater pond area. CDM reported at 8/12/10 meeting that the stormwater runoff from the Relief Ditch was being routed to the OGS south stormwater pond, by way of the OGS north and west ditches, where it is being discharged at the 003 Outfall. Water samples are taken and analyzed daily by CDM to assure that the discharge is in compliance with regulatory requirements. It was recommended that Ardaman and CDM jointly take soil samples from the ditches originally contaminated, if dry portions of the ditch can be located, and analyzed by CDM for contaminants. Alternatively, panel drain discharge could be analyzed, if its discharge can be accessed to get a sample. CDM indicated that none of the ditch is suitable for sampling as of 9/23/10.
- CDM met with FDEP after the 9/1/10 construction meeting to discuss an orderly and appropriate transition of site operations from CDM to HRK.

10.0 COMMENTS by FDEP

- At the July 1, 2010 meeting, CDM was requested to prepare and submit a fertilization and mowing schedule, planned and actual. This schedule has not yet been received. Ardaman provided a CAD site plan of grassed areas to CDM by email on 9/8/10, to assist CDM with this task to assist CDM this task.
- The high water level in the SCP LPWS was discussed during a previous site tour and meeting on July 21, 2010. CDM's immediate term water management priorities are to transfer process water from the LPWS to the NGS-N via the 8" diesel backup pump and to continue dewater the NCP construction area. CDM indicated that the high level intentionally resulted from mixing higher pH water let down from the NGS-N reservoir to elevate the LPWS pH to reduce caustic usage and related costs associated with consumption via the Manatee County Sewer. FDEP requested that CDM submit an operating plan for the LPWS that complies with the facility operating plan and applicable rules.
- At the July 1, 2010 meeting, FDEP requested CDM to provide a plan to restore contaminated ditches and/or remove dead vegetation from the ditches affected by the SE-1 spray system pipeline failure. Submittal of this plan is still pending as of 9/23/10.
- Regarding Punchlist Items, FDEP requested that, in addition to the items being tracked in 12.0 - Punchlist Items, that CDM review the Contract and develop a list and schedule for completion of all other outstanding scope items under the Contract, including removal of remaining process water, SE-1 spray system, NGS-N sludge removal, etc. Not received as of 9/23/10.
- CDM was requested to recommend and provide a cost estimate for an acid-water compatible electric pump for the seepage collection system manhole Structure No. 1 based on flow data recorded to date. Not received as of 9/23/10.

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE	File No.: 06-110A	Page 5 of 5
	Meeting Date: <u>9/23/10</u>	
	Report No: <u>270</u>	Report Date: <u>10/7/10</u>
CLOSURE CONSTRUCTION NCP CAP & PLANT WATERSHED AREAS	Project Address: 13300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee Co	

- CDM was requested to submit a plan to repair or replace the secondary electric pump for the PWS, that failed in the summer of 2007. Not received as of 9/23/10.
- FDEP inquired at the 9/1/10 meeting about the factors currently limiting the discharge of storm water from Outfalls 003 and 001. CDM indicated that Buckeye Road ditch hydraulics and tail water conditions have been limiting the combined rate of discharge. It was recommended that CDM contact the County.
- After the meeting, FDEP, Ardaman, CDM and Compass will visit and inspect grassed areas in the field, for which retainage release has been requested.

11.0 COMMENTS by HRK

- HRK was not represented at the meeting.
- HRK indicated at the 7/14/10 meeting that they will make repairs to the MCC as necessary to restore power to the site and that a new starter is on-site that can be used to restore power to the ASH pump. The area around the substation is being dewatered and FPL is schedule to be at the site 7/22/10 to energize the substation. It was noted that power was restored to the site on 7/22/10. However, the starter for the ASH pump has not yet been installed.

12.0 PUNCH LIST ITEMS

As requested by FDEP, a list of items is being documented herein that require attention by CDM prior to final project completion. Going forward, items will be removed from the list as they are completed and may be added to the list as additional items become apparent or are otherwise identified. FDEP requested that CDM include these items in their schedule updates.

- Remove excessive vegetation from the OGS west and north ditches, and the NGS-N west ditch. Accumulated eroded sediments and vegetation clog stormwater ditches and inhibit rainfall runoff, which promotes further plant growth, thus exacerbating the situation. ON HOLD until the OGS north ditch and NGS-N west ditch are satisfactorily flushed. CDM indicated that none of the ditch is suitable for sampling as of 9/23/10.
- Re-grass crest roads as needed. HRK is no longer trafficking crest roads. CDM reported that the crest roads are essentially complete, except a few spots on the east side of the NGS-S Cap, the east side of the NGS-SD, and the southwest corner of the NGS-N. CDM will get soil samples and solicit recommendations for grassing these areas.
- Comanco restored the gypsum stack crest road above the slope pond, where it was deficient in soil cover. The area needs to be grassed.
- Provide valve extensions and protection at the at the NGS-N and OGS-S outlets. Valve extensions has been installed at the NGS-N outlet pipe by CDM; different parts have been ordered for the OGS-S outlet.
- Install HDPE protection box at the underdrain modification at the northwest corner of the NGS-N - completed by Comanco.
- Miter-cut ends of HDPE pipes at the erosion pads in the upper and lower lined ditches of the Second 50% Area - in progress by Comanco - 1 left to do.
- Repair deep erosion feature near the existing valve on the discharge end of the NGS-N Relief Ditch outfall pipe, remove associated sediment mound from the Phase 1 ditch just south of the NGS-N spray pipeline crossing.
- Locate and extend 3 phase 1 drain clean-outs located in the outfall 003 area. The cleanouts have been located and exposed.
- Remove debris and eroded material at erosion protection pads - in progress by Comanco.
- Weld the INGS-N south crest road liner to the NGS-N reservoir liner alongside the NGS-N spray evaporation system header. CDM indicated at the 9/1/10 meeting that Comanco will review the conditions and propose means and methods to modify the header pipe connections (e.g., install short spool pieces at the down-comer valve locations) to facilitate relocation of the header for completion of the crest road closure work.
- Restore permanent power to well #1, and remove the temporary generator. At the 9/1/10 meeting CDM indicated that they are working with Crossan.
- NEW: Basin No. 1 Inlet Structure Modification. Cut one 6- to 8-inch hole into the west wall of the box with its invert 6 inches above bottom (surrounding slab surface).

See 10.0 - Comments by FDEP regarding additional punchlist items.