

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 06-110A	Page 1 of 5
		Meeting Date: <u>11/19/09</u>	
		Report No: <u>231</u>	Report Date: <u>12/2/09</u>
Project Name:	CLOSURE CONSTRUCTION PLANT WATERSHED AREAS & NCP	Project Address: 13300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee County	
ATTENDEES Ardaman: John Cameron, Rob Werner (Telecom) FDEP: CDM: Dean Carter, Mike Cruz, Osvaldo Ellis Comanco: Dave Barnett, Gary Mitchell Compass: Jeremy Giles 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 12/3/09
Construction/Engineering Meeting at 9:00 am

1.0 REVIEW MINUTES OF PREVIOUS MEETING

- No corrections were reported.

2.0 SAFETY

- No incidents were reported.

3.0 SUMMARY OF WORK PERFORMED

Compass

- Started finish grading soil cover in the NCP west lined ditch.
- Continued finish grading 6" soil cover A-B-C-D ponds; worked on subgrade west of the A-B-C-D ponds.
- Continued hauling sludge from pond 1 to pond 2.
- Used 120,000 gallons fresh water since last report, for dust control and irrigation.
- Equipment: 2 dump trucks, 1 water wagon, 1 excavator, 1 longstick excavator, 2 D-6 dozers, 1 D-3 dozer, 1 grader, 1 club cart, 11 personnel.

Comanco

- Completed liner subgrade at the OGS-N north ditch (NCP south ditch); completed deployment of 80-mil liner.
- Completed grouting fabriform at erosion control structures in the remainder of the 2nd 50% watershed area.
- Began installation of geotextile and soil cover in the NCP;
- Continued concrete pads at drain cleanouts in the 2nd 50% watershed area.
- Repaired geotextile in pond 1, and resumed installation.
- Equipment: 2 loaders, 3 dozers, 3 excavators, 1 drum roller, 1 dump truck, 21 personnel. One dump truck was demobilized since last report.

CDM

- Continued repairs on the NGS slopes.

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- Sarasota Land Services continued hauling from the SCP excess material stockpile to the NCP; CDM reported 25,440 cy (1272 truckloads) as of 11/18/09.
- Started draining the NGS-S to the OGS-S south ditch, in preparation to transfer water from the NGS-N to the NGS-S.
- Equipment (CDM): 1 bobcat, 1 water wagon, 1 ATV, 4 personnel

4.0 PROJECTED WORK FOR NEXT WEEK

Compass

- Place sod in the NCP west lined ditch.
- Continue finish grading 6" soil cover ponds A-B-C-D.
- Resume soil cover on geotextile in pond 1.

Comanco

- Continue 80-mil liner detail work OGS-N north ditch (NCP south ditch).
- Continue installation of geotextile and soil cover in the NCP.

CDM

- Continue repairs on the NGS slopes.
- Seminole Grassing is scheduled to resume mowing next week.
- Sarasota Land Services will continue hauling from the SCP excess material stockpile to the NCP.
- Continue draining the NGS-S to the OGS-S south ditch, in preparation to transfer water from the NGS-N to the NGS-S.

5.0 SURVEY NOTES

- CDM/Edgemon and/or CDM/Hamilton provided as-built surveys for work ongoing in the Additional 2nd 50% Plant Watershed.
- 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.
- The project schedule was last updated by CDM for work done through 11/4/09, and was distributed at the meeting and by email on 11/4/09.
- Comanco is scheduled to work on Saturday.

7.0 SHOP DRAWINGS and SUBMITTALS

- Liner conformance testing - NCP 40-mil is in progress on 39 rolls of smooth liner and 5 rolls of textured liner.

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.

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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.
- 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).

Quality Control Activities

- Ardaman had 4 technicians on site this reporting period.
- In-place density tests soil cover on liner
NCP ditches and 2nd 50% Plant Watershed Area - no change - 81 passing, none failing, none pending.
- In-place soil subgrade density tests
1st 50% Plant Watershed Area - no change - 167 passing, none failing, none pending.
NCP ditches and 2nd 50% Plant Watershed Area - 241 passing, none failing, none pending.
- Liner seam destructive testing (DT's)
NCP stormwater ditches - no change - 80-mil textured -13 marked, 13 passing, none failing (COMPLETE).
OGS-N north ditch (NCP south ditch) - 80-mil textured - 9 marked, 8 passing, none failing, 1pending.

Miscellaneous

- Rainfall was reported by CDM at 1.48 inches from 11/10/09 through 11/16/09.
- CDM/Comanco were cautioned by Ardaman to make sure that site supervisors and operators be careful to remove any debris or objects (that could pierce geotextile or liner) from the stockpiled materials in the NCP that are currently being used for general fill. (Ardaman had previously cautioned CDM/Compass on several occasions to avoid placing such materials in the stockpile; nonetheless, some such materials were placed in the stockpile).

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Acceptances

- On 11/16/09, soil cover accepted for sod installation, OGS-S west lower lined ditch.
- From 11/13/09 to 11/17/09, .liner subgrade, balance of OGS-N north ditch (NCO south ditch).

Punch List Items

As requested by FDEP, a list of items that have been identified to-date that will require attention by CDM prior to final project completion will be outlined in the meeting minutes for convenient reference and reviewed at future weekly construction meetings. 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 these items be included in future CDM project schedule updates.

- As was noted at the 5/8/08 meeting, the soil cover atop the liner and geocomposite that is now exposed at the top of the northwest ramp needs to be restored. (At least a portion of the soil cover from the edge of the lined top road at the apex of the ramp had previously been temporarily removed by CDM.) When CDM is ready to address this item, the remaining soil cover will need to be manually removed from the edge so that Ardaman can first inspect the geocomposite and liner for damage. It is planned to do this work after HRK completes installation of control structures on the gypsum stacks.
- Install 4 bollards to protect the gate valves on the NGS-N outlet pipe located at the northwest corner of the NGS-N.
- Install new culvert pipe(s) into the north end of Basin 1 to replace the buried 24" RCP. The final drawing for the Basin 1 Plant Area Inlet Restoration work, including plan, section and details, was provided by email on 11/12/09.
- Accumulated eroded sediments from former slope cover washouts that currently inhibit flow in certain portions of the lined stack toe ditches needs to be removed to restore design grades and then the disturbed areas will need to be regrassed.
- Erosion gullies and bare areas (including, but not limited to stack crest roads, plant watershed areas, etc.) need to be repaired and grassed. CDM repaired mower damage on the NGS-N north slope and the OGS Slope Pond north slope, and washouts on the PWS south ditch, and started erosion repairs on the NGS-S. FDEP has encouraged CDM since the 6/11/09 construction meeting to address grassing and erosion repairs, considering that this summer/fall represented the final establishment/growing season prior to the scheduled end of the CDM contract period. All areas have been mowed between 8/31/09 and 9/29/09, except ditch bottoms, Basin 2, and the east half of the 1ST 50% Area. Since 9/29/09, Basin 2 and ditch bottoms have also been mowed, except the NGS-N north ditch, OGS-S west ditch, OGS-N north ditch (in progress) and the NGS-N west ditch, and at drainage structures.
- Regarding the plant area stormwater ditch upgradient of Basin 1, the south ditch block has been removed and stormwater flows south. A 4" portable pump is still in place as needed.

9.0 COMMENTS by PROGRAM MANAGER

- CDM will re-seed the eastern half of the first 50% area.
- CDM submitted a change order request to FDEP on 10/12/09 regarding NCP Closure ancillary additions.
- Regarding high iron and orange-brown discoloration at outfall 001, CDM pumped the outfall dry on 10/30/09; no water inputs were found aside from the culvert pipe from Basin 2. The outfall was checked for pH, turbidity, conductivity and NH3; as were additional locations in Basin 2 as requested by FDEP. Results were distributed by email on 10/30/09.
- CDM reported that Comanco's proposed supervisor's resume was sent to FDEP ~ 11/2/09.

10.0 COMMENTS by FDEP

- As requested by FDEP at the 6/11/09 construction meeting, a list of items that have been identified to-date that will require attention by CDM prior to final project completion will be outlined in the meeting minutes for convenient reference and reviewed at future weekly construction meetings. 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 these items be included in future CDM project schedule updates.

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- FDEP recognized CDM's mowing progress (at the 9/17/09 construction meeting) as very beneficial, noting that some areas have been staked for repairs. The Department again reiterated (**as they have since the 6/11/09 construction meeting**) that the remaining growing season to make repairs is very brief, and **grassing repairs must be given priority**. It was noted that because the vegetation in recently mowed areas had grown very high, the amount of rough-cut clippings is excessive and in some areas have accumulated to the extent that the "piles" may inhibit healthy growth. It was suggested that CDM not wait too long before the next mowing so that the mower deck can be lowered and new/existing clippings cut finer. It was also suggested that CDM not lose the opportunity to use the mowing activity as one of the ways to identify areas needing repair and regrassing (e.g., erosion gullies). It was noted on the site tour that the mower did stake some of the more extreme problem areas. CDM was encouraged to work closely with the mower to clarify all of the feature types that need to be identified.
- Regarding the scheduled return of Seminole Grassing on 11/9/09 to resume mowing, CDM was again encouraged to work closely with the mower to identify areas in need of repair. Ardaman will assist upon requested by CDM.
- FDEP requested CDM at the 9/17/09 meeting to submit a listing and projected completion date for activities which they expect will not complete by the contract completion date of 2/22/10, including removal of all process water.
- Regarding Contractor qualifications submitted by CDM for Seminole Grassing for seeding work, and Comanco for general earthwork; the Department needs additional information, including a resume for Comanco's proposed supervisor.
- Change Order SP644-027, for CDM's NGS-N sediment removal plan, was executed by the Department on 11/17/09, and distributed by email.

11.0 COMMENTS by HRK

- HRK was not represented at the meeting.
- As initially discussed during the 9/25/08 meeting, FP&L had concerns about surface water near the substation area and minimum clearances for some of the power lines within the plant watershed closure area. FP&L visited the site on 6/10/09, and was generally satisfied with the plan to complete grading out a swale as proposed by Ardaman by email on 5/14/09 to CDM and HRK, pending receipt of an as-built drawing after the work is completed. FP&L is re-visited the site on 6/15/09 and met with representatives of Ardaman, HRK and FP&L.
- HRK is awaiting a proposal from FP&L to remove the substation.
- Sarasota Land Services was scheduled to start installation of the control structures on 11/2/09 - HRK will confirm. It was noted at the meeting that Sarasota Land Services is not on site as yet.