




# Sanborn, Head & Associates

*Consulting Engineers & Scientists*

## MEMORANDUM

**To:** Meeting Attendees

**From:** Dave Cedarholm, P.E. 

**File:** 2364

**Date:** July 9, 2004

**Re:** July 6, 2004 Construction Meeting  
Grading Modifications Project  
North Country Environmental Services, Inc.  
Bethlehem, New Hampshire

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### Meeting Attendees:

Gary Tomlinson, Paragon Construction Inc. (PCI)  
Bob Maccini, PCI  
Gene Martin, North Country Environmental Services, Inc. (NCES)  
James Chabot, Sanborn, Head & Associates, Inc. (SHA)  
David Cedarholm, SHA  
Dennis Porter, SHA

The Construction meeting was held in the NCES office conference room, and began at approximately 0930 hours. The following items were discussed.

### PREVIOUS MEETING MINUTES

Dave asked if there were any comments on the June 30, 2004 meeting minutes. Gary Tomlinson suggested that Item No. 1 on page 4 under New Business should indicate that James Vicneire of RTD Enterprises (RTD) noticed that the liner was bridging over a void near the Stage II Phase II leachate cleanout risers before the liner was cut. At the time, James estimated the void cross-section to be approximately 1-foot wide by 1-foot tall.

### OLD BUSINESS

1. Gene said that he received Jim Chabot's and Bob Maccini's comments on the Construction Stormwater Pollution Prevention Plan (CSWPPP) prepared by GeoInsight.

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There was discussion regarding one of Bob's comments relating to the Contractor being required to place tarps on the stockpiles. Gene suggested that placing tarps on stockpiles is only one solution proposed in the CSWPPP to limit erosion. The CSWPPP also proposes other methods of limiting erosion on larger stockpiles.

Gene indicated that he plans to submit PCI's Notice of Intent (NOI) for the Construction General Permit to the USEPA Region 1 later this week.

2. Jim noted that a Notice of Intent To Cut may be required to be submitted to the Town before the construction of Detention Pond No. 5 can proceed. Gary suggested that PCI could chip a significant portion of the timber to eliminate the need to file a Notice of Intent to Cut. Gary added that perhaps NCES could use the chips for daily cover on the landfill.
3. Gene said that NCES will likely not move forward with crushing additional riprap and road base material as previously discussed. Dave asked if PCI still needs to manufacture riprap for the project. Gary said that PCI plans to crush enough stone to generate about 5,500 cubic yards of road base material, and about 700 cubic yards of 12-inch minus riprap for swale lining.
4. Jim asked about the schedule for the repair of the 12-inch gas main near where the gas main crosses beneath the MSE berm. Bob indicated that PCI has not yet received the gas valves, however the supplier indicated the valves were shipped last week and are expected to arrive on-site any day. Gary said he was hoping that Sean Moran could assist PCI with welding the HDPE pipe.
5. Gary reported that Blais Surveying Co. (Blais) plans to send the select sand limits survey data to both PCI and SHA as soon as it is available.
6. Bob indicated that PCI has not yet received RTD's time and material invoice for extending the existing geocomposite on the Stage II anchor trench.
7. Jim pointed out that there were no dust control issues reported this past week.
8. Gary indicated that PCI has been preventing boulders from rolling down the slope and onto the liner by stationing laborers at the bottom of the slope to collect the boulders.
9. Gene cautioned against RTD's use of rocks and boulders for weighing down the liner during their pressure washing operations. Dennis said he discussed the subject with RTD, and reported that in the future RTD plans to use only sand bags to weigh down the liner.

10. Gene said that he plans to contact Wayne Wheeler of the New Hampshire Department of Environmental Services this week regarding the erosion below the liner near the northeast corner of Stage II Phase II.
  11. Gary indicated that he was working with Dennis to solve the well riser label mix up at the location of the B-902 wells. Gary indicated that PCI is salvaging protective casings that may be installed on different wells that they were originally installed on.
  12. Gary said that PCI plans to develop a table of as-built elevations for the extended monitoring wells using the survey and layout information that PCI is collecting. Dennis said that the well riser elevations must reference the top of the PVC riser and the top of steel casing. Dennis described how the caps on the PVC risers and steel casings need to be removed so that the elevations can be measured on the high points of the PVC risers and casings, and that a Sharpie mark usually indicates the high point. Following Jim's request, Gary agreed to provide SHA with PCI's survey notes from the survey of the extended wells. Gene indicated that NCES is considering re-surveying all the monitoring wells after the project is completed.
  13. Jim indicated that injecting flowable fill will most likely be the repair method of choice for the erosion beneath the liner in the northeast corner of Stage II Phase II. Gene indicated that he will contact Severn Trent (ST) and ask them to perform the video work as soon as possible. Gene said that he would like ST to video the leachate cleanout risers and the erosion channel beneath the liner if possible.
- \* Jim asked Bob to provide a cost estimate for installing the flowable fill, and provide a submittal on the flowable fill mix. Bob said he would provide a cost estimate, and have a grouting subcontractor provide a work plan and product submittal.
- Gene asked how the repair to the Stage II Phase II subgrade affects the construction schedule. Gary indicated that the construction schedule should be unaffected if the repair to the Stage II Phase II subgrade is completed before the gas main repair is completed.
14. Gene asked PCI to also provide a cost estimate to reconstruct the existing liner system, including placing and compacting select sand beneath 18 inches of 1-inch minus screened till where the refuse was removed, replacing the 12-inches of select sand, and then repairing the zigzag liner system.
  15. Jim asked if the question about which aspects of the primary and secondary liners need to be surveyed from last week was resolved. Gary indicated that he and Dennis clarified the survey requirements for Blais last Friday, and that PCI plans to have Blais survey the primary and secondary liner panel seams and repairs.

Gary asked if the limit of waste at the anchor trench needs to be surveyed. Dennis confirmed that the limit of waste should be surveyed because it is a pay item limit, and added that the anchor trench pay item is defined from the limit of waste outward through the anchor trench.

16. Gary reported that PCI plans to relocate the side riser building later than indicated in the Construction Schedule.
17. Dennis asked how PCI plans to fill in the narrow trench that was recently excavated on the east side to divert stormwater away from the anchor trench. Gary indicated that PCI plans to cut the trench wide enough for the roller, and replace the fill in 12-inch compacted lifts.
18. Gary indicated that he plans to use oleophilic rags to soak up the free product in PCI's fuel containment cell located near their construction trailer. Gary said that PCI plans to double bag the spent rags and asked if PCI could dispose of the waste in the landfill along with the remaining liquid from the containment cell. Gene indicated that he will inquire about whether the landfill is permitted to accept the waste liquid and spent rags.

Jim suggested that the waste liquid might be placed in the new oil water separator adjacent to the Quonset hut with NCES's approval. Gene said NCES will consider whether the oil water separator is an appropriate disposal location for the waste liquid.

19. Jim expressed concern about the condition of the silt fence on the north side of the existing stockpile. Gary said that his crew is performing silt fence repairs around the perimeter of the site today, including the north side of the site.
20. Jim indicated that the silt in the long swale on the north side of the landfill has not yet been removed. Gary indicated that he plans to remove the silt from the swale within the next week.
21. Gene expressed concern with the speed at which RTD's workers drive all terrain vehicles (ATVs) around the site. He suggested that PCI inform RTD that their workers need to either slow down to below the site speed limit (10 mph), or wear helmets when driving ATVs onsite.

## **PUNCH LIST ITEMS**

Following is a list of Punch List items remaining from previous meeting minutes.

1. Leachate force main installation;
2. Backfill the electrical pull box;

3. Reinstall the leachate cleanout riser cap on the northwest side of Stage II and secure the cap by tightening the stainless steel band; and
4. Provide a cost estimate for replacing the floor drain sump in the Quonset hut.

### **PROGRESS REPORT**

Gary provided a report of PCI's cumulative progress since the last construction meeting:

- Approximately 73,717 cubic yards of 8-inch minus till has been placed and compacted;
- Approximately 14,000 square feet of 1-inch minus till material has been placed and compacted;
- Approximately 96% of the slope stabilization riprap has been installed around the southeast corner of the landfill;
- By the end of the day, 100% of the geosynthetics installation for the lower half of the zigzag would be complete;
- Three bentonite plugs have been installed around the leachate cleanout risers on the east side of Stage III;
- Silt fence maintenance is currently being performed around the perimeter of the site; and
- Gary estimated between 400 and 500 cubic yards of till material is remaining in the stockpile area for use as fill, and about 15,000 to 20,000 cubic yard of fill is still needed to complete the berm fills. He also estimated that there may be a few thousand yards of relatively undesirable material remaining in the stockpile that may or may not be acceptable for use as berm fill.

### **NEW BUSINESS**

1. Jim indicated that it is unlikely that Detention Pond No. 5 will be constructed as part of the grading modifications project. Jim said that SHA will re-evaluate the stockpile area for additional borrow areas this week. Gary indicated that the planned location of the rock crushing operations may need to be reconsidered depending upon the location of the additional borrow.
2. Gary provided SHA with an estimate of quantities for Pay Application No. 6 and discussed them with Dave.

The meeting adjourned at approximately 11:00 am at which time Jim Chabot, Dave Cedarholm and Gene Martin walked the site.

#### **SITE WALK**

1. It was noticed during the post-meeting site walk that the uniaxial geogrid along the inside of the MSE berm near where the gas main repair is to be performed has been damaged by truck traffic and will need to be replaced with new geogrid.
2. A void that measured about 6-foot deep by 1.5-feet wide by 6-inches high was observed beneath the Stage III secondary liner at the leachate cleanout risers about 150-feet west of the southeast corner of Stage III. Jim requested that PCI tamp sand into the void from the bottom up and place a bentonite plug at the top of the void to seal it off.

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