

**JUNE 28, 2007 MEETING MINUTES AND PROGRESS REPORT  
UGI COLUMBIA GAS PLANT SUPERFUND SITE  
COLUMBIA, PENNSYLVANIA**

**ATTENDEES**

Mike Hasel, PPL  
Scott Miller, Clean Sites  
Dave Turner, EPA  
Tim Gallagher, USACE  
Jim Vagra, Penn E&R  
Ross Ulmer, Advanced GeoServices  
Todd Trotman, Advanced GeoServices  
Dave Benson, Advanced GeoServices

**ACTIVITIES COMPLETED TO DATE**

- Mobilization to the site was completed on June 11.
- Installed erosion control measures.
- The construction entrance was widened resulting in the placement of an additional 20 tons of #4 Stone.
- Excluding the area of the site adjacent to South Front Street, all vegetation has been stripped from the site.
- The concrete pads and foundations associated with Building #1 have been broken and removed from the site.
- The eastern half of the concrete pads associated with Building #2 has been broken to 3' minus.
- The concrete ramps and front wall of the Concrete Lagoon have been broken and removed from the site.
- Completed breaking of unanticipated bedrock and foundations.
- The installation of FES #1, FES #2, DMH- 1-1, DMH 1-2, Inlets 1-3, 2-1, and 2-2, and all associated 18" RCP is complete.
- The excavation and rough grading of the Basin Area is complete.
- Installation of the temporary riser and trash rack within the Basin Area is complete.
- Completed the installation of the permanent ECM and seeding of slope area to FES #1.
- Disposed offsite approximately 500 tons of C&D and Vegetation material.
- Removed all fencing along South Front Street and replaced with temporary fence.

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**ACTIVITIES PLANNED FOR JULY 1 – JULY 15, 2007**

- Complete breaking of the concrete associated with Building #2.
- Complete rough grading of the site.
- Remove remainder of stockpiled Vegetation and C&D Material from the site.
- Accept delivery of all remaining concrete structures and pipe.
- Begin installation of the stormwater structures and associated RCP along South Front Street.
- Tap and install water service and hydrant connections.
- We will continue arranging for the disposal of the water and cuttings that were generated during the drilling activities.
- GEI Consultants, Inc. will continue preparing a report detailing the well installation and sampling activities.
- The next construction meeting will be held at 10:00 am on July 11, 2007.

**ISSUES/CLARIFICATIONS**

Prior to the meeting, a site walk was performed and the following issues/clarifications were discussed.

**Outfall**

1. The USACE expressed concern regarding the invert elevation of the outfall at Shawnee Run as well as the height of the rip rap above the invert of the outfall. The following was discussed.
  - The USACE questioned why the invert elevation of the outfall was set (designed) at such a low elevation within the channel of Shawnee Run. According to Penn E&R, the outfall was set at the design elevation. Scott Miller and Ross Ulmer explained that the property owner (Stark) requested that the outfall be placed on the exposed bedrock at the edge of the creek to minimize the potential for erosion of the creek bank and for aesthetics. In addition, during the review of the project design, the Conservation District requested that the pipe be placed at the bottom of the creek bank to minimize the potential for erosion. The Conservation District also requested that large rip rap be placed at the outfall.
  - The USACE was also concerned that the height of the rip rap in conjunction with the invert elevation of the outfall within the stream channel may promote sediment deposition within the pipe. Ross Ulmer stated that he believes that sediment will be removed by the flow velocities produced during larger storm events. It was agreed that the outfall/pipe will be monitored during the duration of the project to evaluate these conditions.

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- Advanced GeoServices requested that Penn E&R remove the rip rap (that can be handled by manual methods) that lies above the invert elevation of the outfall and place the removed rip rap on areas of the stream bank that were not stabilized with the permanent erosion mat.
- Scott Miller expressed concern that children could enter the pipe from the outfall. It was agreed that a single rebar would be placed vertically through the pipe along its centerline to help prevent entry.

**Site Grading**

1. Advanced GeoServices reviewed the revised grading at Concrete Holder Pad No. 2. The grades within the footprint of Concrete Holder Pad 2 are not fixed and can be modified to serve as a depository for unsuitable and/or excess site materials. Soil in this area should be placed at a maximum 2:1 slope as required to avoid offsite disposal of unsuitable and/or excess materials; however, the final grade in this area should not exceed the height of the stone retaining wall located at the back of the site. The top of the holder pad should be graded at a minimum 1% slope.

The area to the east of Concrete Holder Pad 2 may also be used as a depository for unsuitable and/or excess materials. Soil placement in this area should start at the existing slope and proceed southward toward South Front Street. The 256 contour should be held and the maximum slope of the fill should be 2:1.

2. Penn E&R informed Advanced GeoServices that the elevation of the top of Concrete Pad No. 2 is such that there is insufficient depth to allow construction of the full pavement section in this area. Advanced GeoServices instructed Penn E&R to reduce the thickness of the aggregate base course material as necessary to maintain the design grades. The placement of the entire specified thickness of asphalt pavement directly on the concrete would also be acceptable. It was agreed that the concrete of this pad would not be broken into pieces as originally specified.
3. Penn E&R requested clarification and additional information regarding the proposed grading between the Concrete Lagoon and Concrete Holder Pad 2 (please see attached clarification memo from Advanced GeoServices)

**Monitoring Well Between DMH 1-2, Inlets 3-3**

1. Penn E&R has evaluated the location of the existing monitoring well between DMH 1-2 and Inlet 3-3 with respect to the proposed pipe installation and believes that the well will not impact installation.

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**Conservation District**

1. Alan Houck has resigned from the Conservation District. Aaron Ward is the new contact. Penn E&R has made several attempts to make contact with Aaron. No contact has made to date and the Conservation District has not visited the site since the preconstruction meeting. Penn E&R is performing daily inspections of the site erosion and control measures.

These meeting minutes were prepared by Todd Trotman of Advanced GeoServices and reviewed by Scott Miller of Clean Sites. Please provide any comments you may have on the meeting minutes to us by July 10, 2007.

**MEMORANDUM**

**DATE:** July 2, 2007

**TO:** Jim Vagra

**FROM:** Ross P. Ulmer *RP*  
Todd D. Trotman *TD*

**SUBJECT:** UGI Columbia Gas Plant Superfund Site  
Site Grading  
Additional Information and Clarifications

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During our site walk on June 28, 2007, you requested clarification regarding the grading at the following site areas:

- Emergency Spillway
- Concrete Pad No. 2
- Concrete Lagoon
- Eastern End of Site

Clarifications were provided during the site walk and are documented below.

Emergency Spillway

The emergency spillway shall be graded to elevation 248.25, have a minimum length of 63.5 feet, and shall be paved to the property line.

Concrete Pad No. 2

We understand that the elevation of the top of Concrete Pad No. 2 is such that there is insufficient depth to allow construction of the full pavement section in portions of this area. The thickness of the proposed aggregate base course material may be reduced in this area as necessary to maintain the design grades. The placement of the entire specified thickness of asphalt pavement directly on the concrete pad is acceptable and may be performed as required. We understand that holes have been made through the concrete throughout the entire pad. Therefore, it is not necessary to break the concrete of this pad into pieces as originally specified.

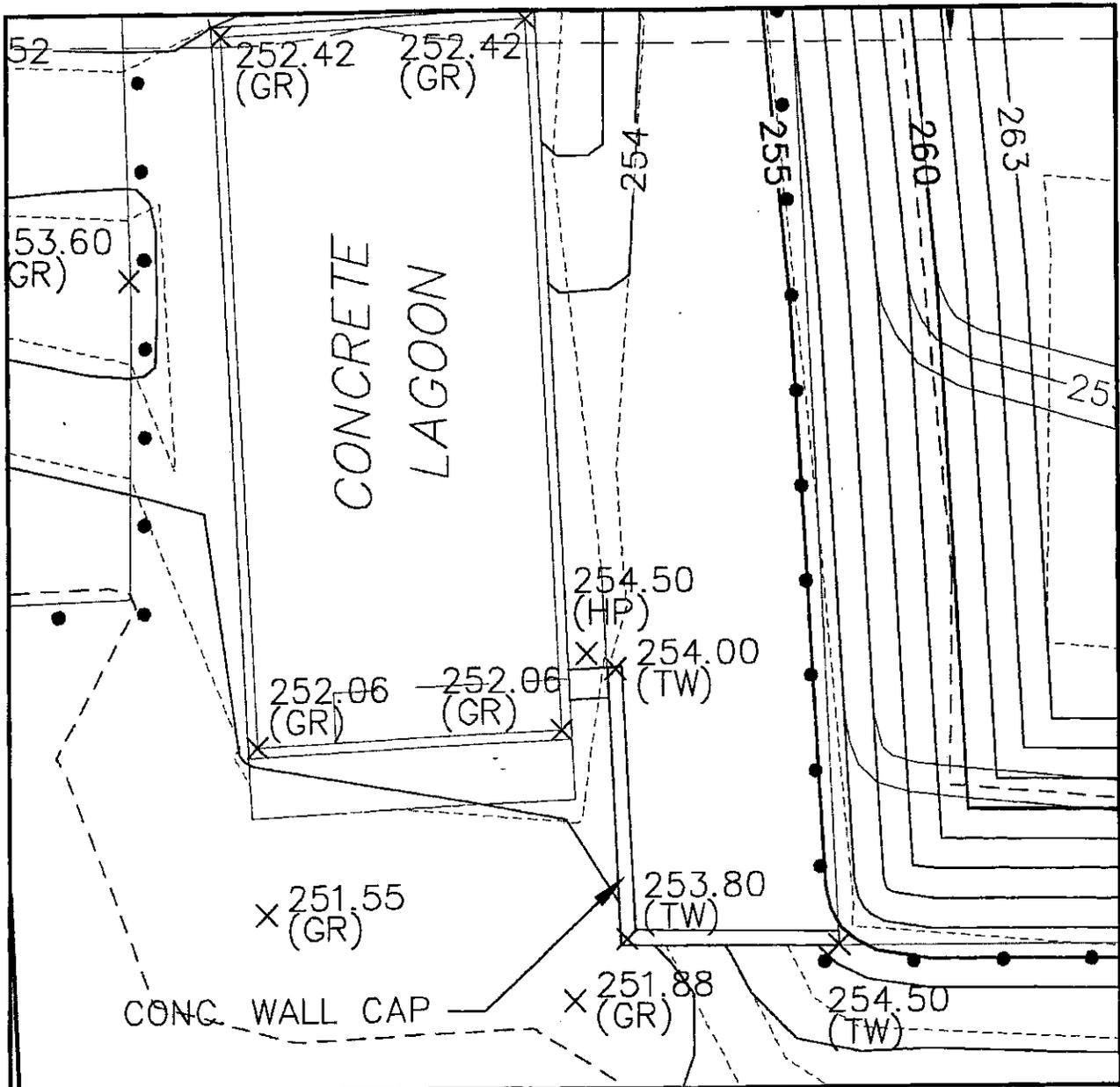
Concrete Lagoon

Additional grading and construction details for this area are shown on the attached sheet.

Eastern End of Site

As shown on the Grading Plan (Sheet C200), the proposed grades at the eastern end of the site shall be tied into the adjacent slope. This will require temporary removal of the existing fence.

cc. Scott Miller  
Chris Reitman



NOTES:

1. EXCAVATE BEHIND THE EXISTING WALL TO THE LIMITS REQUIRED FOR CONSTRUCTION OF THE CAP AND LIGHT DUTY PAVEMENT.
2. CLEAN TOP OF EXISTING WALL AND INSTALL DOWELS AND/OR STRAIGHTEN AND REUSE EXISTING REBAR. DOWELS OR REBAR SHALL BE SPACED APPROXIMATELY 3 FEET ON CENTER; 3 INCH TOP/4 INCH BOTTOM TYPICAL EMBEDMENT. EPOXY IN PLACE.
3. FORM AND POUR CONCRETE CAP. CONCRETE SHALL BE PENNDOT CLASS A CONCRETE, 3000 PSI.
4. REMOVE FORMS AND PROVIDE BROOM FINISH ON ALL EXPOSED SURFACES.



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CONCRETE WALL  
CAPPING PLAN  
UGI COLUMBIA GAS PLANT SUPERFUND SITE  
COLUMBIA BOROUGH, LANCASTER COUNTY, PA

PROJECT ENGINEER:	CTR	SCALE:	1"=10'
CHECKED BY:	CTR	PROJECT NUMBER:	20061800
DRAWN BY:	RPU	DATE:	07/02/07
		FIGURE:	2