

Marjol Site Remediation Update

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ONGOING CONSTRUCTION ACTIVITIES

As discussed in the past few updates, construction of the Final Remedy at the Marjol Battery Site (Site) began on May 12, 2008. Construction activities are expected to take 2 construction seasons (until November 2009). In the past few months, quite a bit of excavation has taken place. Excavation of all of the North Woods areas north of the perimeter fence has now been completed. Final grading and stabilization of these areas is continuing and will be completed in the near future. Excavation of the fenced in area to the right of the Site entrance on Delaware Street (Area T and Part of Area U) is also complete and the area is presently being backfilled and stabilized. Excavation of the front parking lot area (Areas M and J) has also taken place and the area will soon be backfilled. The work at the entrance to the Site (Excavation of Areas U, T, J, and M) has been very visible to the community and close to residential areas. Due to the close proximity to the residential area, USEPA has had a representative from the Army Corps of Engineers on-site at all times during excavation of these areas. (Note: See the drawing on page 2 for information on the areas that have been excavated.)

Unfortunately as many of you will have seen, the excavation in the front parking lot area and the slope went deep enough that we had to remove the trees along the fence line. The hillside above the site is getting a straw mat for the winter but there will be grass growing next year in all of these areas. Once grass is growing and the leaves come back onto the trees, the view of the hillside will be much better.

WINTER SCHEDULE

The contractor, SCE Environmental Group, Inc. (SCE) intends to work through the winter months as long as the weather will allow. The sequence of areas to be excavated has been adjusted to allow for SCE to do some of the shallower excavations over the next few months. Following the backfilling of the front parking lot area (Area M and J) as described above, the support zone construction trailers will be relocated to the front parking lot area to prepare for excavation of the area where those trailers were previously located (Area O—see drawing on page 3). Following excavations of all of the eastern perimeter areas, SCE may then move on to additional shallow excavation of North Woods areas within the perimeter fence, weather permitting.

At its November 12, 2008, Council meeting, Throop Borough Council passed a motion to send a letter to Gould requesting that the plates on Delaware Street be removed by December 1, 2008. SCE complied with Throop Borough's request. Consequently, the number and size of trucks coming into and out of the Site will be limited. SCE has stockpiled cover soils and backfill soils at the Site so it can continue working through the winter months.

In terms of schedule, while there are some activities that were scheduled for the first construction season, that have not yet been completed, there were also some areas of excavation that were done this season instead of next due to sloping requirements for some of the excavations being performed this season. Construction of the final remedy is still expected to be complete in November 2009.

COMMUNITY RELATIONS

We would like to thank all of the residents for their patience and understanding this construction season. We know it has been noisy and difficult at times with all of the activity and especially the truck traffic. We do appreciate your cooperation with us during these activities. We would like to wish all of you a very Merry Christmas and a Happy New Year!

We encourage everyone to log onto our web site at www.marjolicleanup.com for the most recent information regarding the Marjol site.

- *Provide us with your e-mail address and we will notify you whenever the web site is updated.*

Expected Project Schedule & Remediation Activities Through Winter 2009

<u>Activity</u>	<u>Start Date</u>	<u>Progress</u>
Off-Site Verification Sampling (Pre-Construction)	5/5/08	Completed
Site Preparation	5/12/08	Completed
Containment Area Construction	6/2/08	In progress
New Basin Construction/Decommissioning of Old Basin	6/10/08	Completed
Movement of High Hazard Soil Stockpile into Containment Area	8/13/08	Completed
Excavation, Confirmatory Sampling, and Backfilling of On-Site Areas	Second Half of July 2008	In progress
North Woods Excavations North of the Perimeter Fence, Confirmatory Sampling, and Backfilling	October 2008	Completed
Excavation of Areas T, U, M, and J at the Site	November 2008	Areas T and U are completed
Relocation of Support Zone trailers to area near Guard Trailer/front parking area	December 2008	
Excavation of Areas N, O, P, Q, and R	Winter 2009	

DUST CONTROL AND AIR MONITORING

During construction activities, and in particular during soil disturbance activities, we have continued to adhere to a "No Visible Dust" rule. During both working and non-working hours, we continuously run Real-Time (Dust) Air Monitors at the Site. Dust monitoring provides immediate information on the amount of dust (not just lead) being generated.

On October 15, 2008, the United States Environmental Protection Agency (USEPA) lowered the National Ambient Air Quality Lead Standard from a quarterly average of 1.5 $\mu\text{g}/\text{m}^3$ to a rolling three-month average of 0.15 $\mu\text{g}/\text{m}^3$, effective October 2009. The method of collecting the samples has not changed.

Additional co-located or PAM (Personal Air Monitoring) lead sampling - Gould continues to do additional lead dust sampling beyond that required by the 100% Design Plan by obtaining lead samples daily during working and non-working hours. These samples are analyzed for lead whenever a new area of work is started, the dust monitors don't run for the full time period, or the dust monitors show a reading above the action level. In addition, random samples are analyzed on a weekly basis.

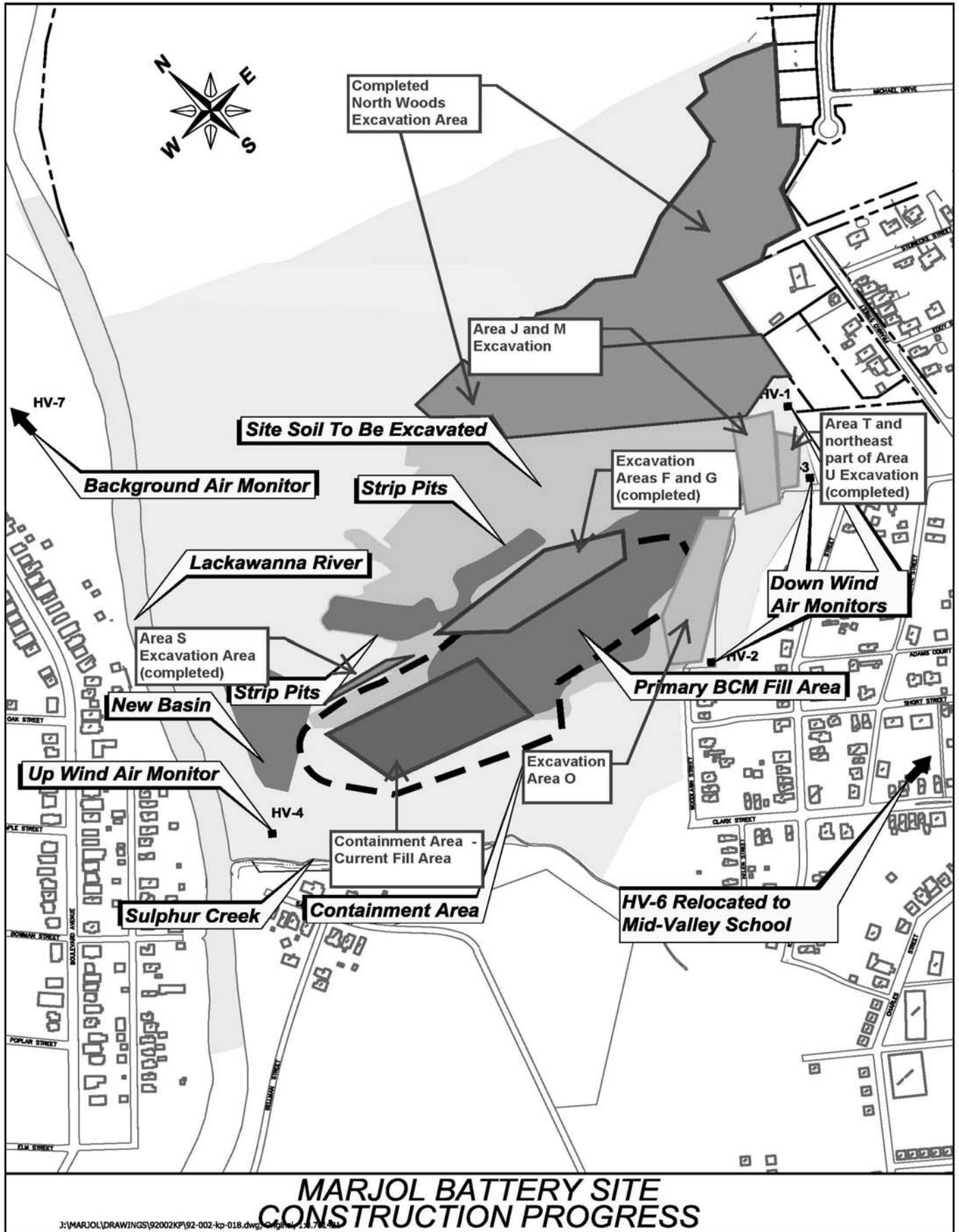
Thus far, only one lead result above the site action level and current National Ambient Air Quality Standard (NAAQS) for lead of 1.5 $\mu\text{g}/\text{m}^3$ has been obtained. This occurred on September 24, 2008, when a sample with a result of 1.7 $\mu\text{g}/\text{m}^3$ was collected downwind of the Containment Area (CA) when contaminated material was being placed. On that same day and during the same time period, a second sample was collected downwind of the first sample. The result for the second sample was 0.67 $\mu\text{g}/\text{m}^3$. This result showed that as you moved away from the CA, the lead levels went down before they reached the Site perimeter. In response to the 1.7 $\mu\text{g}/\text{m}^3$ result, additional wetting was done in the CA and on the haul roads leading to and from the CA.

On November 17, and 19, 2008 there were PAM lead results that were higher-than-expected (results were 1.011 $\mu\text{g}/\text{m}^3$ and 1.339 $\mu\text{g}/\text{m}^3$ respectively) although below the Site action level and the current NAAQS. An investigation into the cause of the higher-than-expected readings took place, additional monitoring was initiated and sampling procedures were modified to be sure that sampling procedures were not causing cross-contamination in response to the results of that investigation. The cause and source of the elevated lead levels identified in the PAM samples has not been definitively determined. It does not appear that they are related to site operations since operations in the vicinity of the sampler were limited during the period the samples were collected. Since the sampling procedures have been modified, subsequent results have not shown elevated levels since November 19, 2008. It appears that the procedural changes have been effective, and changes to site dust control or construction operations are not warranted.

Additional high volume air sampling—On the weekends, Gould has also elected to run the perimeter high-volume samplers so that additional actual lead data will be available in the event that an exceedance of the action level occurs at one of the dust monitors.

Note: A weekly schedule as well as a list of completed activities is posted on the Marjol web site, www.marjoldcleanup.com, on Friday afternoons. A photo gallery has also been added to the web site. Perimeter, real-time, and co-located air data is being provided and updated on the Marjol web site as it is available.

Areas Excavated as of 12/19/08 and
Areas of Proposed Excavation for Winter 2008/2009
Last Updated: November 20, 2008



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Repository Location

Marjol Battery Site Repository

The repository is located at the Throop Borough Municipal Building, 436 Sanderson Street, Throop, PA and is open Monday through Friday 9 am to 4 pm.

Do you want to be added to our lists?

If you would like to be added to the Marjol Battery site newsletter mailing list or the website changes list, please contact Lisa Ayers via e-mail, telephone, or fax or you can submit your address information on our web site at <http://www.marjolcleanup.com>.

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