

**The U.S. Environmental Protection Agency  
Region 3  
Philadelphia, PA 19103**

## **The Marjol Battery Site Implementation of the Final Clean-up**

**Fact Sheet**

**April, 8, 2008**

U.S. Environmental Protection Agency (EPA) and the Pennsylvania Department of Environmental Protection (PADEP) held an informational open house on April 8, 2008, to discuss the implementation of the final clean-up remedy at the Marjol Battery site, located in Throop, PA. Representatives of EPA, PADEP, and Gould Electronics, the property owner, were available to provide information on the project and to answer individual questions.

**Clean-up Requirements** - The final clean-up requirements for the site are:

- Move contaminated waste away from the Five-Foot coal seam, to eliminate the fire and pothole subsidence hazard to the waste.
- Consolidate all contaminated waste and soil into a central containment area.
- Solidify the top layer of the contaminated soil so that it cannot wash out.
- Construct a multi-layer cap over the contaminated material to prevent future exposure to the contamination.
- Sample soil, sediment and groundwater to document the clean-up.

**Construction Schedule** - Construction of the clean-up remedy is scheduled to start this spring and to be completed in late fall of 2009. Work will take two construction seasons.

Phase 1: Prepare site / Construct containment area / Excavate & relocate waste

Winter shutdown: If weather necessitates / Cover exposed waste with clean soil

Phase 2: Complete waste excavation & relocation / Cap containment area / Restore property

**Construction Controls** - Strict control standards will be maintained during the construction to insure that contamination is not released and that the property is properly remediated. The project will be conducted under the joint oversight of EPA and PADEP.

Controls and monitoring during construction include:

- Perimeter fencing and 24-hour guard to control site access,
- Dust control and air monitoring to prevent the release of contaminated dust,
  - Dust controls at all times – NO visible dust,
  - Air monitoring
    - At perimeter of work area – to detect and control particulate (dust) generation,
    - At perimeter of Marjol property – to confirm air quality, and
    - In work area – for worker protection.
- Erosion and sedimentation controls throughout site and river sampling.

**Traffic and Materials Transported through Throop Borough** – Most, possible all, of the contaminated material will move only through the Marjol property and the North Woods.

- Traffic through the Borough will travel along Cypress and Dunmore Streets, which are state roads, and Delaware Street.
- Traffic will enter and exit the site through the Delaware Street entrance.
- All vehicles that enter contaminated areas will be washed before exiting.
- Waste taken to the containment area will not exit the site or use public roads.
- Clean fill (soil) and construction equipment and supplies will be taken to the site.
- Construction waste, debris, and clean material for recycling will leave the site.
- Some contaminated material may leave the site, but it is not expected.
  - If contaminated material is taken off-site, trucks will be lined, covered, and labeled.
- On-site parking will be provided for all project personnel.

**Protective Cap over Contamination** - A multi-layer cap will be constructed over the contaminated material in the containment area. The cap components are, from top to bottom:

- Vegetative (grass) cover to prevent erosion,
- 6 inches of topsoil to retain water for vegetation,
- 18 inches of cover soil to retain water for vegetation and protect synthetic layers, below,
- Double-sided geocomposite drainage layer (fabric/grid/fabric) to direct rainwater to side collection drains and protect geomembrane (plastic) liner,
- 60 mil textured geomembrane (plastic) liner, which is puncture resistant and stretchable, to prevent water from entering waste material,
- 8-ounce geotextile (fabric) to protect the geomembrane (plastic) liner, and
- 18-24 inches of solidified soil-cement to provide extra protection for waste if cover repair is needed.

**Marjol Web Site** – Gould Electronics provides project information at [www.marjolecleanup.com](http://www.marjolecleanup.com). Construction updates and monitoring results will be posted by them at that site.

**Marjol Battery Project Documents** – Information on the site investigations, the selection of the final clean-up remedy, and the construction design documents and specifications are available at:

Marjol Battery Site Repository Throop Borough Municipal Building 436 Sanderson Street Throop, PA 18512	Marjol Community Relations Office 502 George Street Throop, PA 18512 Contact: Lisa Ayers, Community Relations Representative for Gould Electronics Phone: 570-383-9313 e-mail: <a href="mailto:layers@advancedgeoservices.com">layers@advancedgeoservices.com</a>
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**EPA and PADEP Project Contacts:**

Maureen Essenthier, Project Manager US Environmental Protection Agency 1650 Arch Street Philadelphia, PA 19103 Phone: 215-814-3416 e-mail: <a href="mailto:essenthier.maureen@epa.gov">essenthier.maureen@epa.gov</a>	Leonard Zelinka, Project Manager PA Department of Environmental Protection 2 Public Square Wilkes-Barre, PA 18711 Phone: 570-826-2511 e-mail: <a href="mailto:lzelinka@state.pa.us">lzelinka@state.pa.us</a>
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