

**New York State Department of Environmental Conservation**

Department of Environmental Remediation • 625 Broadway • Albany, New York 12233

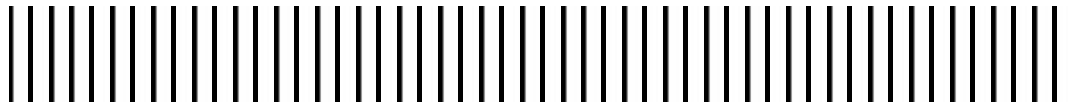
Site Number 7-54-012

# **Tioga Castings Site Quarterly Report**

**Second Quarter 2010**

New York State Department of Environmental  
Conservation Work Assignment D004443-8

October 2010



Report Prepared By:

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**MALCOLM  
PIRNIÉ**

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# 1. Introduction

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The New York State Department of Environmental Conservation (NYSDEC) has issued a Work Assignment (# D004443-8) to Malcolm Pirnie, Inc. (Malcolm Pirnie) for Operation, Maintenance, and Monitoring at the Tioga Castings Site (NYSDEC site number 7-54-012) in New York State. Malcolm Pirnie has prepared this Quarterly Report in accordance with the NYSDEC-approved Site Management Plan (SMP) to summarize second quarter 2010 operation and maintenance (O&M) activities.

## 2. Site Description

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The Tioga Castings site is located on Foundry Street, Owego, Broome County, New York (Figure 2-1). The former foundry buildings have been razed, leaving the concrete slabs in-place. A capped, closed landfill is present at the western end of the site.

## 3. Operation and Maintenance

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O&M activities were performed on May 25, 2010 in accordance with the NYSDEC-approved SMP. A Post Closure O&M Checklist (O&M Checklist) (Appendix A) was used to document the current status of the landfill, including landfill security and landfill cap maintenance.

### 3.1. Landfill Security

The landfill perimeter fence, entry gate, and locks, were inspected for proper operation and signs of deterioration. As indicated in the O&M Checklist, no problems were observed with the integrity of these components. In addition, the Foundry Street entry gate warning sign was in place and in acceptable condition.

### 3.2. Landfill Cap Maintenance

A visual inspection of the landfill cap was performed to assess the landfill for burrowing rodents, erosion, woody vegetation, and settlement. As shown in the O&M Checklist (Appendix A), burrowing rodent holes were observed on the north and south side of the landfill cap and small trees and brush were present in the drainage swales and on the slope of the landfill cap. No additional problems were observed with the condition of the landfill.

As indicated in the SMP, the landfill cap is currently mowed by the NYSDEC Operations Department. As shown in the accompanying site photographs, the landfill cap did not appear to be mowed during this (2010) growing season prior to the landfill inspection.

## 4. Recommendations

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Burrowing rodents should be removed from the site to reduce the potential for the landfill cap to be compromised. In addition, the burrows should be backfilled to minimize infiltration of surface water to the landfill.

Brush and woody vegetation should be removed from the landfill cap and drainage ditches to reduce the potential for their root systems to compromise the integrity of the landfill cap.

# TIOGA CASTINGS SITE LANDFILL

## Post-Closure Operation and Maintenance Checklist

Inspected by: Jeremy Wyckoff - Malcolm Pirnie Inc.

Date: May 25, 2010

Time: 09:30

Conditions: Sunny, 65°F

### LANDFILL COVER SYSTEM

Erosion	<u>      </u>	YES	<u>  X  </u>	NO
Holes or Cracks in Cover	<u>      </u>	YES	<u>  X  </u>	NO
Cap Settlement	<u>      </u>	YES	<u>  X  </u>	NO
Ponded Water or Wet Areas	<u>      </u>	YES	<u>  X  </u>	NO
Burrowing Rodents	<u>  X  </u>	YES	<u>      </u>	NO
Sparse Vegetation/Bare Soil	<u>      </u>	YES	<u>  X  </u>	NO
Brush or Other Woody Vegetation,	<u>  X  </u>	YES	<u>      </u>	NO
Excessive Weeds in Grass	<u>      </u>	YES	<u>  X  </u>	NO
Grass Mowed	<u>      </u>	YES	<u>  X  </u>	NO

Comments: Evidence of burrowing animals was observed on the north and south sides of the landfill cap (Photograph 1). Small trees were observed growing on the sloped sides of the landfill (Photograph 2).

**DRAINAGE DITCHES**

Erosion	<u>      </u>	YES	<u>  X  </u>	NO
Obstructions	<u>      </u>	YES	<u>  X  </u>	NO
Sediment Accumulation	<u>      </u>	YES	<u>  X  </u>	NO
Evidence of Surcharging	<u>      </u>	YES	<u>  X  </u>	NO
Presence of Brush	<u>  X  </u>	YES	<u>      </u>	NO

Comments: Brush/woody vegetation observed growing in drainage swales and along perimeter fencing (Photographs 3 & 4).

**FENCING**

Warning Signs	<u>  X  </u>	OK	<u>      </u>	OTHER
Gates and Locks	<u>  X  </u>	OK	<u>      </u>	OTHER
Posts	<u>  X  </u>	OK	<u>      </u>	OTHER
Top Tension Wire	<u>  X  </u>	OK	<u>      </u>	OTHER
Barbed Wire	<u>  X  </u>	OK	<u>      </u>	OTHER

Comments: None. Gate and signage shown in Photograph 5. Landfill cap shown in Photograph 6.



**MONITORING**  
**WELLS**

Capped and Locked	<u>  X  </u>	YES	<u>      </u>	NO
Casing Damage	<u>      </u>	YES	<u>  X  </u>	NO

Comments: None

**INSPECTOR' SIGNATURE** \_\_\_\_\_ **DATE** \_\_\_\_\_



**Photograph 1:**  
Burrowing rodent hole on south edge of landfill cap.



**Photograph 2:**  
Brush/woody vegetation on south slope of landfill, facing west.





**Photograph 3:**  
Trees in drainage swale on east side of landfill, facing south.



**Photograph 4:**  
Brush/woody vegetation on west side of landfill, facing south.





**Photograph 5:**  
Landfill access gate and warning sign .



**Photograph 6:**  
Landfill cap, facing northeast.