

New York State Department of Environmental
Conservation – Division of Environmental
Remediation

TIOGA CASTINGS SITE SEMI- ANNUAL REPORT

Second Quarter 2018

July 2018

A large, solid orange geometric shape, resembling a stylized triangle or a section of a larger triangle, is positioned in the bottom right corner of the page. It is composed of two overlapping triangles, creating a complex, angular form. A thin white line runs diagonally through the shape, and a horizontal white line intersects it near the bottom.

TIOGA CASTINGS SITE SEMI-ANNUAL REPORT

Second Quarter 2018



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Our Ref.:

00266403.0000

Date:

July 2018

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Figure 2-2.....	Site Features

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1 INTRODUCTION

The New York State Department of Environmental Conservation (NYSDEC) has issued a Work Assignment (# D004443-8) to Arcadis CE, Inc. (Arcadis), for Operation, Maintenance, and Monitoring at the Tioga Castings Site (NYSDEC site number 7-54-012) in New York State. This Semi-Annual Report has been prepared in accordance with the NYSDEC-approved Site Management Plan (SMP) to summarize second quarter 2018 operation and maintenance (O&M) activities.

2 SITE DESCRIPTION

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. In August 2011, the boundaries of the site (originally encompassing approximately seven acres) were reduced by the NYSDEC to only include the approximately one-acre landfill (Figure 2-2).

3 OPERATION AND MAINTENANCE

Operation and Maintenance (O&M) activities were performed on May 31, 2018 in accordance with the SMP. A Post Closure O&M Checklist (Appendix A) was used to document the status of the landfill. Photographs taken during the inspection are provided in Appendix B. The next O&M event is scheduled to be performed during the fourth quarter 2018.

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 on the O&M Checklist (Appendix A) and site photographs (Appendix B), the condition of the landfill cap appeared to be in acceptable condition, however, brush was growing along the perimeter of the landfill in the rip-rap. The brush will be cut back and placed along the base of the perimeter fence during the next O&M event.

4 GROUNDWATER MONITORING PROGRAM

Groundwater samples are collected on a five-quarter sampling interval in accordance with the SMP. Groundwater sampling was conducted on August 28, 2017 to provide information on groundwater quality, monitor contaminant migration in groundwater, and assess hydrogeologic site conditions, including groundwater flow. At the request of NYSDEC, groundwater samples were also analyzed for Perfluorinated Alkyl Substances (PFAS) by USEPA Method 537 Modified, and 1,4-Dioxane by USEPA Method 8260 SIM. Samples were collected from monitoring wells using a peristaltic pump and dedicated PFAS-free sample tubing in accordance with USEPA low-flow sampling techniques. The next groundwater sampling event is scheduled to occur during the fourth quarter 2018.

5 SUMMARY

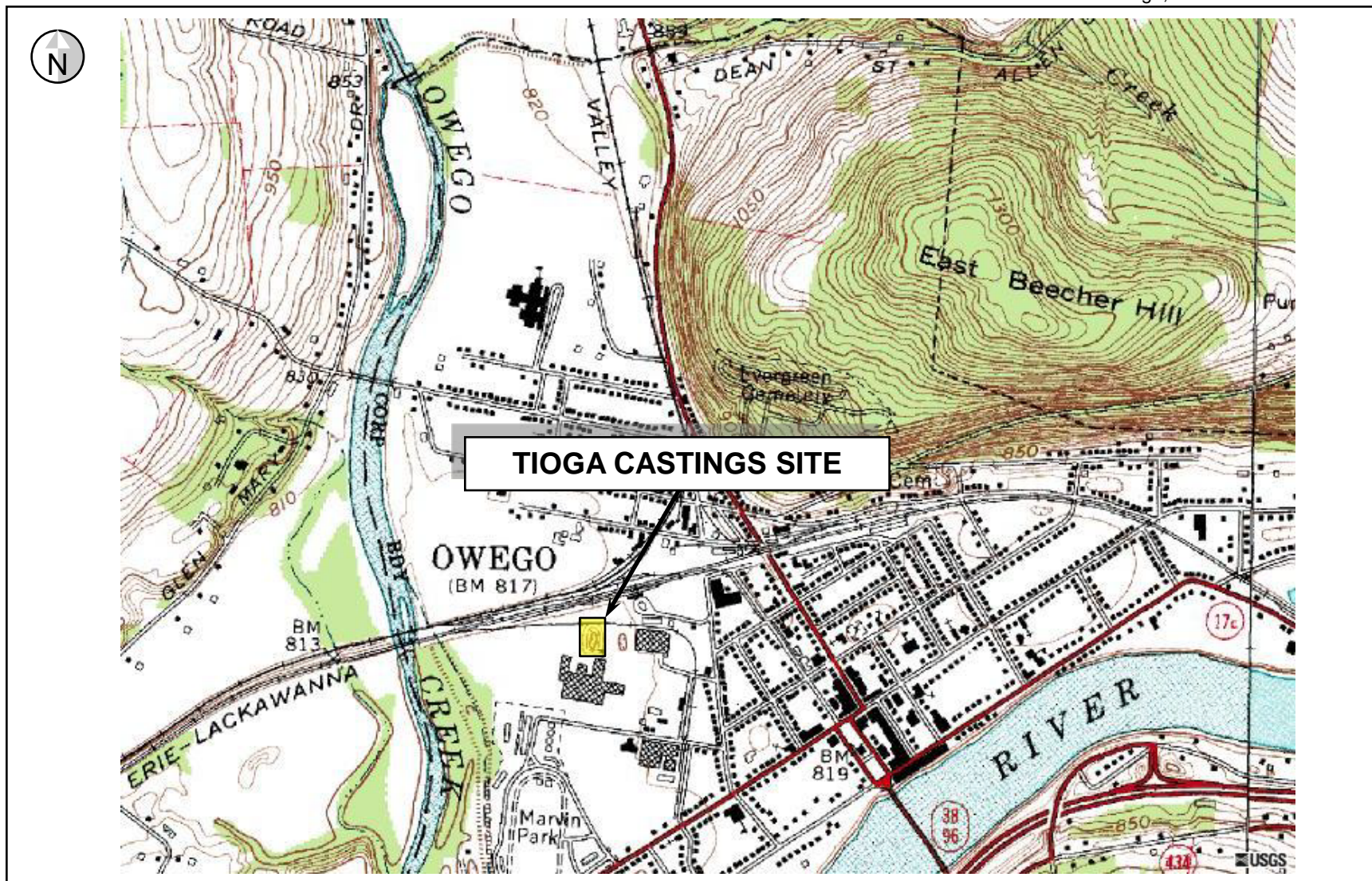
Landfill O&M activities were conducted in accordance with the SMP during the second quarter 2018. No significant issues were reported with the condition of the perimeter fence or the condition of the landfill. The next O&M and monitoring event is scheduled for the fourth quarter 2018.

6 REFERENCES

Arcadis 2015. Site Management Plan, Tioga Castings Site, Oswego, Tioga County, NY. Site Number 7-54-012. January 2015.

FIGURES





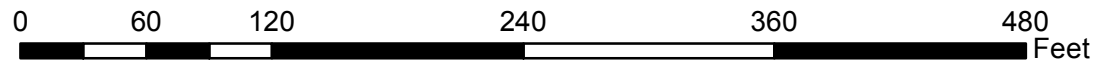
Source: USGS 7.5-minute Series Topographic Quadrangle, OWEGO (1990).

G:\GISMOD\00266403.0000\Site Map.mxd
G:\PROJECT\00266403.0000\Reports\4th Qtr 2014-drilling\Figure 2-2.pdf



Legend

- Monitoring Well
- Abandoned Well
- Former Casting Facility
- On-Site Landfill/Site Boundary
- Approximate Parcel Boundary



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SITE NUMBER 754012

Tioga Casting Facility, Owego, New York

SITE FEATURES



FIGURE

2-2

Note: Site feature boundaries are approximate.

APPENDIX A

Operation and Maintenance Check List



TIOGA CASTINGS SITE LANDFILL
Post-Closure Operation and Maintenance Checklist

Inspected by: J. Mullins

Date: 8/28/2017 Time: 12:00

Weather Conditions: Sunny, 70 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> </u>	YES	<u> X </u>	NO
Sparse Vegetation/Bare Soil	<u> </u>	YES	<u> X </u>	NO
Brush or Other Woody Vegetation,	<u> </u>	YES	<u> X </u>	NO
Excessive Weeds in Grass	<u> </u>	YES	<u> X </u>	NO
Grass Mowed	<u> X </u>	YES	<u> </u>	NO

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> </u>	YES	<u> X </u>	NO

Comments: _____

Continued

FENCING

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: _____

MONITORING WELLS

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

Comments: _____

INSPECTOR'S SIGNATURE

J. Mullins

DATE 8/28/2017

APPENDIX B

Site Photographs



Appendix B - Project Photographs

Tioga Castings Site
Owego, New York
Site Number 7-54-012



Photo: 1

Date:

May 31, 2018

Description:

Center of Landfill Cap – Facing
Northeast



Photo: 2

Date:

May 31, 2018

Description:

Center of Landfill Cap – Facing
Northwest

Appendix B - Project Photographs

Tioga Castings Site
Owego, New York
Site Number 7-54-012



Photo: 3

Date:

May 31, 2018

Description:

Center of Landfill Cap – Facing
Southeast



Photo: 4

Date:

May 31, 2018

Description:

Center of Landfill Cap – Facing
Southwest

Appendix B - Project Photographs

Tioga Castings Site
Owego, New York
Site Number 7-54-012



Photo: 5

Date:

May 31, 2018

Description:

East Side of Landfill – Facing
North



Photo: 6

Date:

May 31, 2018

Description:

North Side of Landfill – Facing
West

Appendix B - Project Photographs

Tioga Castings Site
Owego, New York
Site Number 7-54-012



Photo: 7

Date:

May 31, 2018

Description:

West Side of Landfill – Facing
South



Photo: 8

Date:

May 31, 2018

Description:

South Side of Landfill – Facing
East

Appendix B - Project Photographs

Tioga Castings Site
Owego, New York
Site Number 7-54-012



Photo: 9

Date:

May 31, 2018

Description:

MW-3D



Photo: 10

Date:

May 31, 2018

Description:

MW-4

Appendix B - Project Photographs

Tioga Castings Site
Owego, New York
Site Number 7-54-012



Photo: 11

Date:
May 31, 2018

Description:
MW-6



Photo: 12

Date:
May 31, 2018

Description:
MW-9

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