

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

TIOGA CASTINGS SITE SEMI- ANNUAL REPORT

Second Quarter 2017

September 2017

A large orange geometric graphic consisting of a triangle and a rectangle. The triangle is on the right side, pointing upwards, and the rectangle is on the left side, pointing downwards. They meet at a diagonal line. A horizontal white line crosses the entire width of the page, intersecting the orange shapes.

TIOGA CASTINGS SITE SEMI-ANNUAL REPORT

Second Quarter 2017



Andrew Violins, PG
Associate Vice President

Prepared for:

New York State Department of
Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233



Jeremy Wyckoff
Project Geologist

Prepared by:

Arcadis CE, Inc.
855 Route 146
Suite 210
Clifton Park
New York 12065
Tel 518 250 7300
Fax 518 250 7301

Our Ref.:

00266403.0000

Date:

September 2017

This document is intended only for the use of the individual or entity for which it was prepared and may contain information that is privileged, confidential and exempt from disclosure under applicable law. Any dissemination, distribution or copying of this document is strictly prohibited.

CONTENTS

1	Introduction	1
2	Site Description.....	2
3	Operation and Maintenance	3
3.1	Landfill Security	3
3.2	Landfill Cap Maintenance.....	3
4	Groundwater Monitoring Program	4
5	Summary	5
6	References	6

FIGURES

Figure 2-1	Site Location
Figure 2-2.....	Site Features

APPENDICES

Appendix A.....	Operation and Maintenance Check List
Appendix B.....	Site Photographs

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 2017 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 April 26, 2017 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 2017.

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. Following the inspection, the brush was cut back and placed along the base of the perimeter fence.

4 GROUNDWATER MONITORING PROGRAM

Groundwater sampling is conducted in accordance with the SMP to provide information on groundwater quality, monitor contaminant migration in groundwater, and assess hydrogeologic site conditions, including groundwater flow. Groundwater samples are collected on a five-quarter sampling interval in accordance with the SMP. The next groundwater sampling event is scheduled to occur during the third quarter 2017.

5 SUMMARY

Landfill O&M activities were conducted in accordance with the SMP during the second quarter 2017. 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 third quarter 2017.

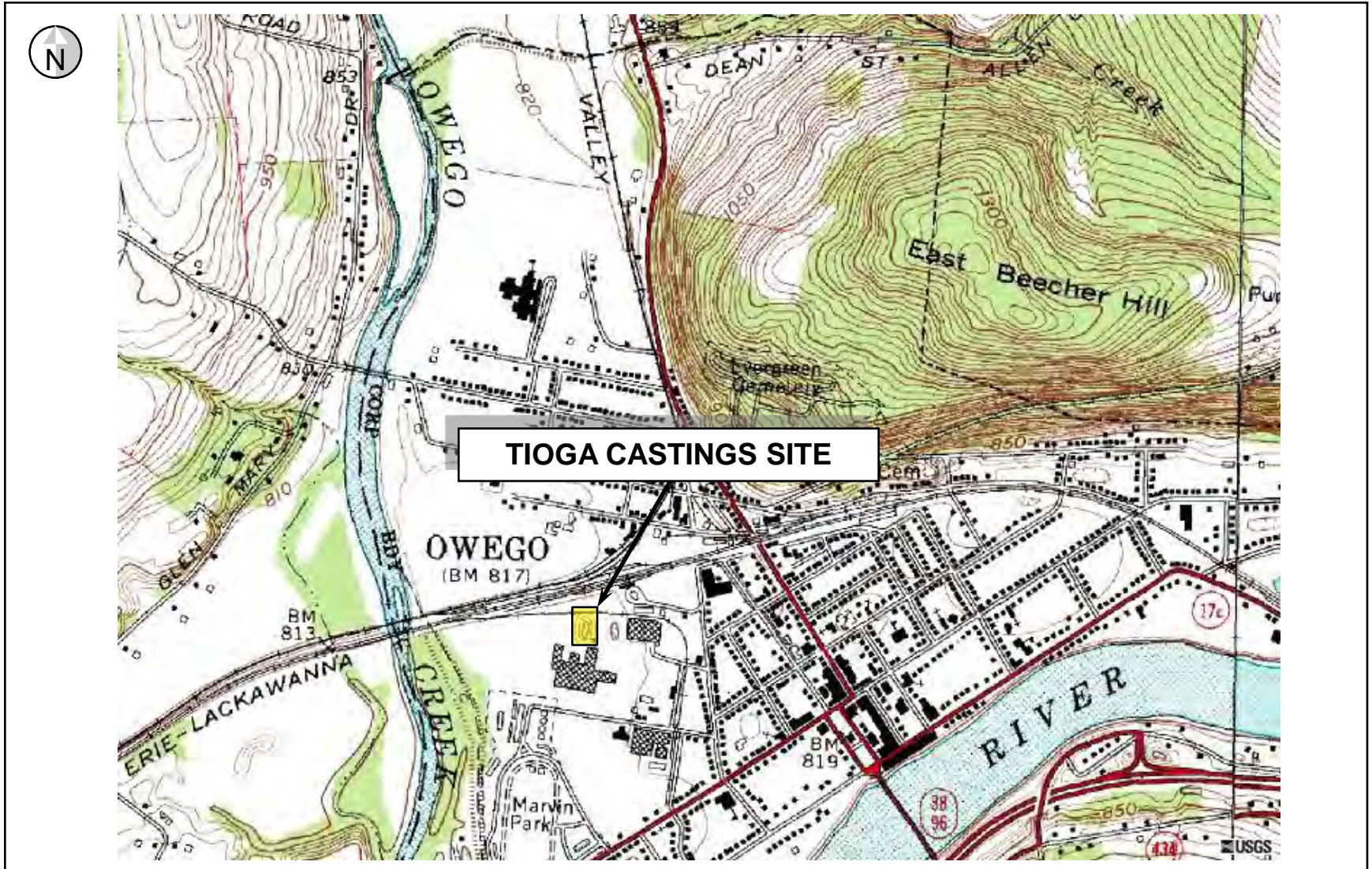
6 REFERENCES

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

FIGURES



0 2,000 ft



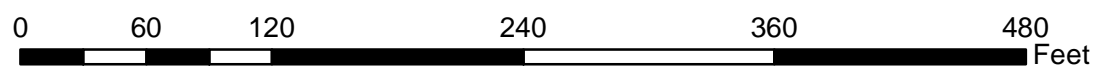
Source: USGS 7.5-minute Series Topographic Quadrangle, OWEGO (1990).



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS

G:\GIS\MD\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 Checklist



TIOGA CASTINGS SITE LANDFILL
Post-Closure Operation and Maintenance Checklist

Inspected by: Lance D. Whalen

Date: 4/26/2017 Time: 11:30

Weather Conditions: Sunny, 70F.

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

Comments: Small amount of brush in rock area. Brush cut and removed.

Continued

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: _____

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

Lance D. Whalen

DATE 4/26/2017

APPENDIX B

Site Photographs



Appendix B - Project Photographs

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



Photo: 1

Date:

April 26, 2017

Description:

Center of Landfill Cap – Facing
Northeast



Photo: 2

Date:

April 26, 2017

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:

April 26, 2017

Description:

Center of Landfill Cap – Facing
Southeast



Photo: 4

Date:

April 26, 2017

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:

April 26, 2017

Description:

East Side of Landfill – Facing
North



Photo: 6

Date:

April 26, 2017

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:

April 26, 2017

Description:

West Side of Landfill – Facing South



Photo: 8

Date:

April 26, 2017

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:
April 26, 2017

Description:
MW-3D



Photo: 10

Date:
April 26, 2017

Description:
MW-4

Appendix B - Project Photographs

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



Photo: 11

Date:
April 26, 2017

Description:
MW-6



Photo: 12

Date:
April 26, 2017

Description:
MW-9

Arcadis CE, Inc.

855 Route 146

Suite 210

Clifton Park, New York 12065

Tel 518 250 7300

Fax 518 250 7301

www.arcadis.com

A decorative graphic consisting of three thin orange lines. One line is horizontal, extending across the bottom of the page. Two other lines are diagonal, starting from the bottom left and extending towards the top right, crossing the horizontal line.