



April 22, 2016

Stephanie Fitzgerald
Environmental Engineer
Div. of Remediation
NYSDEC Region 7
615 Erie Blvd. West, Syracuse, NY 13204-2400

Re: Annual Landfill Inspection Report (Year 12)
Syracuse China Landfill
Town of Salina, Onondaga County, New York
NYSDEC Site Number 7-34-053

Dear Ms. Fitzgerald:

Rocterra, LLC (Rocterra), on behalf of TPC-York Inc. (TPC-York), has prepared this letter report to summarize the required monitoring and maintenance activities completed at the Syracuse China Landfill site located in the Town of Salina, Onondaga County, New York (Site No. 7-34-053). In accordance with New York State Department of Environmental Conservation (NYSDEC) requirements, activities for the twelfth year of Operation, Monitoring and Maintenance (OM&M) were performed at the site. In accordance with the OM&M Plan prepared by Remedial Engineering, PC dated September 25, 2003 and the schedule approved by NYSDEC, the following activities were performed:

- Inspection of key site features including the landfill surface, vegetation, fence, access road and drainage features such as rip rap swales and energy dissipaters; and
- Maintenance activities.

Supporting figures and documentation are included at the end of this report.

LANDFILL MONITORING

Rocterra conducted an inspection of the landfill and surrounding site areas on October 30, 2015. Rocterra personnel inspected site vegetation at the eastern portion of the site, the landfill cap surface and the northern wetlands for any signs of erosion or significant settlement. Rocterra also inspected the swales, drop chute, energy dissipation structures, monitoring wells MW-1, MW-2, MW-5, MW-6, MW-8 and MW-10, permanent landfill gas vents GV-1 through GV-7, fencing, access road and Syracuse China signs for erosion, blockage or other damage. The results of Rocterra's inspection activities

are summarized in the Site Monitoring, Inspection and Maintenance Forms, provided as Appendix A. Photographs showing the condition of key site features are provided as Appendix B. A site plan showing key site features is provided as Figure 2.

Rocterra's inspection indicated that the site was generally in good condition with no significant erosion or differential settlement. The landfill surface was observed to be entirely stabilized with vegetation. The landfill drainage swales, drop chute and energy dissipation structures were observed to be in good condition, however with a significant amount of vegetation within the riprap. The permanent gas vents were also observed to be in good condition. The former trolley berm was observed to be generally clear of vegetation, however rutting was observed due to wet conditions. The site fence was observed to be in good condition; however, vegetation overgrowth was observed periodically along the east, south and west fence line. The signs on the fence within the Factory Avenue right-of-way were unobstructed after clearing vegetation.

Monitoring well MW-1 was struck and has been destroyed. Photographs showing MW-1 are included within Appendix B. It is proposed that this well be abandoned per NYSDEC DER-10 guidelines and removed from the sampling network. MW-1 has been below the NYSDEC TOGS 1.1.1 standard for lead (0.025 mg/l) since it was installed in 2003 and below laboratory detection limits since 2006.

MAINTENANCE ACTIVITIES PERFORMED

Mowing and Weed-Whacking

Annual mowing and weed-whacking activities were completed by Proscapes Landscaping on October 30, 2015. Mowing was conducted on the landfill surface, within the eastern portion of the site (outside of wetland areas) and along the access road. Mowing and weed-whacking were conducted within the landfill surface swales to remove woody growth. Photographs documenting the landscaping activities are included within Appendix B.

PROPOSED YEAR 13 (2016) OM&M AND MAINTENANCE ACTIVITIES

Herbicide Application

Portions of the swales have become congested with vegetation. Treatment with a widely used aquatic herbicide Rodeo is proposed for Spring 2016. Due to harsh weather in Spring 2015, last year's treatment was incapable of being carried out.

Mowing and Weed-Whacking

In accordance with the OM&M Plan, the landfill will require annual mowing and weed-whacking in fall 2016 to prevent additional woody vegetation growth on the landfill cap and within the drainage swales.

Annual Landfill Inspection

In accordance with the OM&M Plan, an inspection of the landfill is proposed for Year 13 of OM&M. The annual inspection is scheduled for October 2016.

SAMPLING EVENTS

Groundwater Monitoring

TPC-York was granted approval via email correspondence dated November 20, 2015 to amend the groundwater sampling period to every five years. The next sampling event is scheduled to be performed in December 2019.

COMMENTS

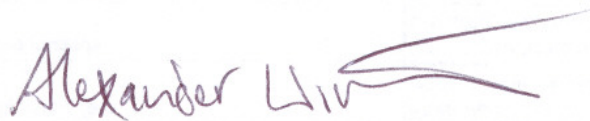
Periodic Review Report

The last Periodic Review Report (PRR) was completed in November 2011. The Department approved a request to amend the PRR schedule to a five-year frequency in an email dated March 21, 2014. The site is not currently active and site maintenance/activities are limited to the items reported above. The institutional controls identified in the most recent 2011 PRR/Declaration of Covenants and Restrictions (Groundwater use restrictions, soil management and site management) remain in place.

The next PRR submission is scheduled to be submitted in March 2017.

Please call the undersigned with any questions regarding this report.

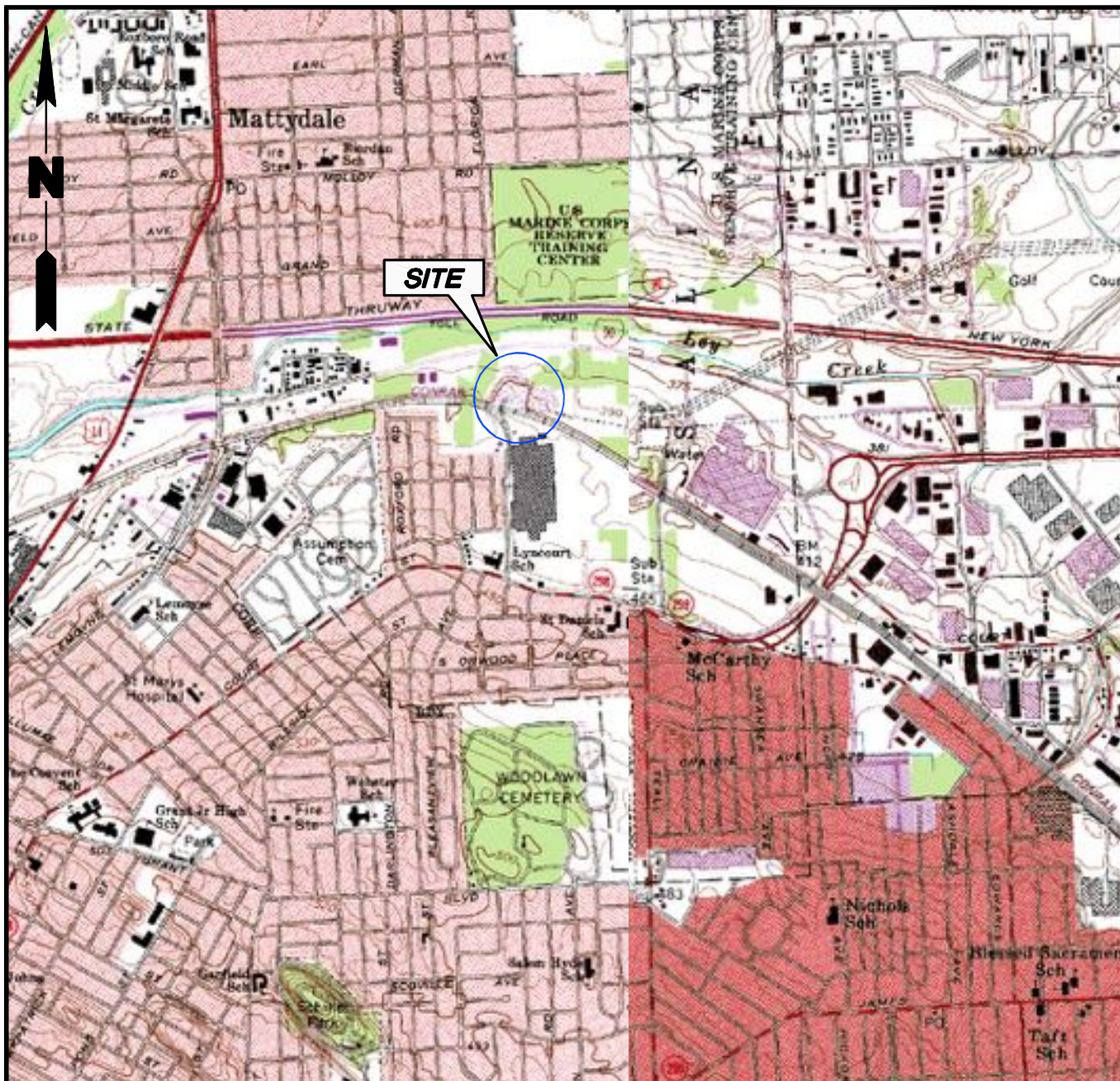
Attachments:	Figure 1:	Site Location Map
	Figure 2:	Site Plan
	Figure 3:	Groundwater Monitoring Well Map
	Appendix A:	Site Monitoring, Inspection and Maintenance Forms
	Appendix B:	Photographs



Alexander Wirth
Principal, Senior Geologist

April 22, 2016
Date

FIGURES



2,000' 0' 2,000'



SOURCE

U.S.G.S. SYRACUSE EAST AND WEST, NEW YORK QUADRANGLES
7.5 MINUTES SERIES (TOPOGRAPHIC)

Title:

SITE LOCATION MAP

SYRACUSE CHINA LANDFILL
TOWN OF SALINA, ONONDAGA COUNTY, NEW YORK

Prepared For:

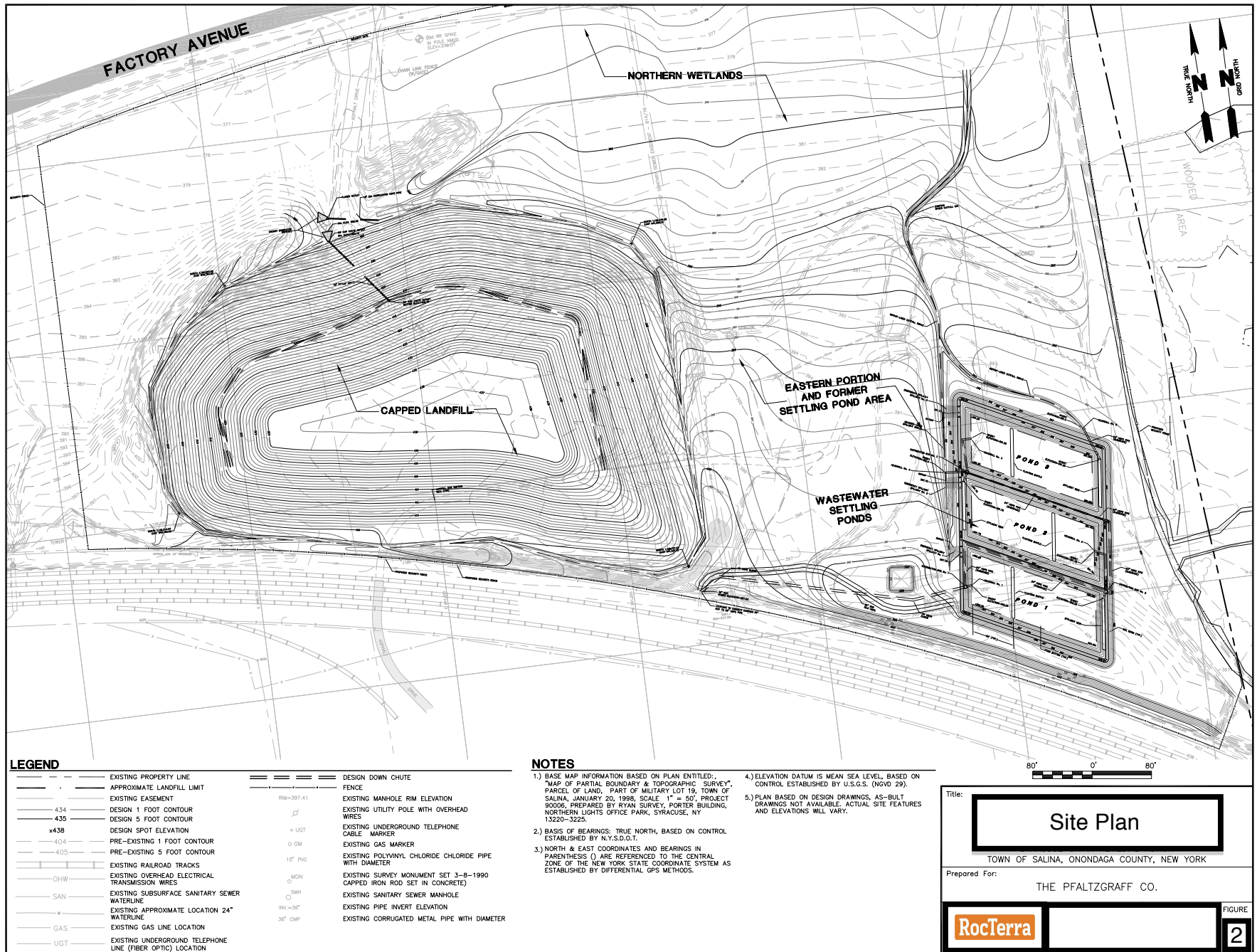
PFALTZGRAFF CO.

RocTerra

Site Location Map

FIGURE

1





Google Earth Pro

feet
meters



RocTerra

Groundwater Monitoring Well Map

Figure

3

APPENDIX A

Table 1
MONITORING WELL GAUGING, GROUNDWATER ANALYTICAL AND MONITORING DATA

Annual Landfill Inspection Report
Syracuse China Landfill
Town of Salina, Onondaga County, New York
NYSDEC Site Number 7-34-053

Sample ID	Date	Sample Time	Depth to Water (Feet)	Depth to Bottom (Feet)	Top of Casing Elevation (Feet, Mean Sea Level)	Corrected Groundwater Elevation (Feet, Mean Sea Level)	Lead (mg/l)	Conductivity (mS/cm)	Dissolved Oxygen (PPM)	pH	Temperature (Celsius)	Turbidity (NTU's)
NYSDEC Standards							0.025					
MW-1	11/7/12	14:30	21.78	25.3	400.8	379.02	<0.010	0.95	6.55	7.16	11.4	13.2
	9/11/13	15:30	19.84	25.3	400.8	380.96	<0.010	1.01	6.99	7.10	15.3	11.0
	12/31/14	14:30	20.77	25.3	400.8	380.03	<0.010	0.98	6.54	7.11	12.2	9.8
MW-2	11/7/12	14:00	5.32	13.3	391.2	385.88	<0.010	1.04	2.01	7.30	12.3	2.89
	9/11/13	15:00	5.23	13.3	391.2	385.97	<0.010	1.00	2.57	7.20	14.6	3.33
	12/31/14	14:00	5.28	13.3	391.2	385.92	<0.010	1.11	2.32	7.25	13.8	3.01
MW-5	11/7/12	15:30	5.13	13.4	387.4	382.27	<0.010	1.11	5.65	7.33	10.1	7.21
	9/11/13	16:00	4.64	13.4	387.4	382.76	<0.010	1.21	6.11	7.21	12.3	5.03
	12/31/14	15:00	4.84	13.4	387.4	382.56	<0.010	1.17	6.77	7.22	11.8	4.99
MW-6	11/7/12	13:00	4.73	17.0	411.3	406.57	<0.010	0.69	4.62	7.42	12.0	13.1
	9/11/13	14:00	4.15	17.0	411.3	407.15	<0.010	0.88	4.89	7.32	13.3	10.01
	12/31/14	13:00	4.44	17.0	411.3	406.86	<0.010	0.77	4.92	7.44	12.8	9.98
MW-8	11/7/12	17:00	7.15	23.0	388.7*	381.55	<0.010	3.07	2.24	6.88	9.0	9.67
	9/11/13	17:30	4.43	23.0	388.7	384.27	<0.010	2.99	2.84	6.99	11.1	9.77
	12/31/14	16:30	6.63	23.0	388.7	382.07	<0.010	3.02	2.64	6.89	10.4	8.88
MW-10	11/7/12	16:30	3.30	17.0	379.1	375.80	<0.010	2.84	2.49	6.84	11.1	14.2
	9/11/13	17:00	3.28	17.0	379.1	375.82	<0.010	3.01	2.89	7.01	13.3	12.1
	12/31/14	16:00	3.33	17.0	379.1	375.77	<0.010	2.98	2.66	6.89	12.2	10.11

Notes:
<1.0 - Not detected at or above the laboratory reporting limit shown.
NYSDEC Standards and Guidance Values - New York State Department of Environmental Conservation Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values, June 1998 and Addendum April 2000
* Revised elevation datum. Original TOC elevation= 387.9'

Table 2
INSPECTION AND MAINTENANCE FORM

Annual Landfill Inspection Report
Syracuse China Landfill
Town of Salina, Onondaga County, New York
NYSDEC Site Number 7-34-053

Item	Action	Notes	Corrective Action Suggested
MW-1	Groundwater sampling, inspect for damage	Damaged/destroyed	Abandonment/removal from network
MW-2	Groundwater sampling, inspect for damage	NA	None
MW-5	Groundwater sampling, inspect for damage	NA	None
MW-6	Groundwater sampling, inspect for damage	NA	None
MW-8	Groundwater sampling, inspect for damage	NA	None
MW-10	Groundwater sampling, inspect for damage	NA	None
GV-1	Inspect for damage	NA	Annual inspection scheduled for October 2016
GV-2	Inspect for damage	NA	Annual inspection scheduled for October 2016
GV-3	Inspect for damage	NA	Annual inspection scheduled for October 2016
GV-4	Inspect for damage	NA	Annual inspection scheduled for October 2016
GV-5	Inspect for damage	NA	Annual inspection scheduled for October 2016
GV-6	Inspect for damage	NA	Annual inspection scheduled for October 2016
GV-7	Inspect for damage	NA	Annual inspection scheduled for October 2016
Landfill Cap	Inspect vegetation, inspect for erosion, inspect for significant/differential settling, mowing	NA	Landscaping/mowing scheduled for October 2016
Northern Wetland	Inspect vegetation	NA	Annual inspection scheduled for October 2016
Swales	Inspect for damage/blockage, weed wacking	Swales have significant vegetation	Herbicide application Spring 2016
Drop Chute	Inspect for damage/blockage, weed wacking	NA	Landscaping/weedwacking scheduled for October 2016
Former Trolley Berm (via Factory Ave)	Inspect for erosion, rutting, mowing	Low spot in southeast corner restricts access to the landfill by vehicle at times due to flooding/wet soils	Monitor for any significant erosion
Fence	Inspect integrity, inspect for significant vegetation	Vegetation observed along some areas of the fence	Annual inspection scheduled for October 2016
Signs	Inspect for vegetation/visual impairment	NA	Annual inspection scheduled for October 2016

Notes:
NA- Not Applicable

APPENDIX B

Site Photos



Cap/Chute: Facing North



Cap: Facing West



Bottom Swale: Facing North



Bottom Swale: Facing West



Upper Swale: Facing Southwest



Former Trolley Berm: Facing South



Former Trolley Berm: Facing West



Former Trolley Berm: Facing North/Factory Ave



MW-1 Damage