



March 14, 2014

Mr. John Grathwol, P.E.
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-7010

Re: Annual Landfill Inspection Report (Year 10)
Syracuse China Landfill
Town of Salina, Onondaga County, New York
NYSDEC Site Number 7-34-053

Dear Mr. Grathwol:

Rocterra, LLC (Rocterra), on behalf of TPC-York Inc. (TPC-York), has prepared this letter report to summarize the required monitoring and sampling activities completed at the Syracuse China Landfill 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 tenth year of Operation, Monitoring and Maintenance (OM&M) were performed at the site. Activities included fence repair, groundwater sampling and a landfill inspection. 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:

- Fence repair;
- Water-level gauging and collection of groundwater samples from monitoring wells MW-1, MW-2, MW-5, MW-6, MW-8 and MW-10 for lead analysis;
- 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.

Sampling activities and results are discussed in greater detail below. Supporting figures and documentation are included at the end of this report.

SAMPLING ACTIVITIES

Groundwater sampling was performed on September 11, 2013. Groundwater levels were gauged and samples were collected from monitoring wells MW-1, MW-2, MW-5, MW-6, MW-8 and MW-10. All wells were purged using manual purge techniques. All samples were analyzed for lead.

The Site location and site features are represented in figures 1, 2 and 3. A Groundwater Sampling Map showing the location of the sampled monitoring wells is provided as Figure 3. The results of the sampling activities are summarized in the Site Monitoring, Inspection and Maintenance Forms provided in Appendix A. Laboratory analytical reports are provided in Appendix B.

Sample results from the September 2013 groundwater sampling event indicate that lead was not detected above the laboratory detection limit in any of the sampled monitoring wells.

A summary of sample results is provided below.

Monitoring Well Identification	TOGS 1.1.1 Standard (mg/L)	9/11/2013 (mg/L)
MW-1	0.025	<0.010
MW-2	0.025	<0.010
MW-5	0.025	<0.010
MW-6	0.025	<0.010
MW-8	0.025	<0.010
MW-10	0.025	<0.010

< = Not detected above the laboratory reporting limit

LANDFILL MONITORING

Rocterra conducted an inspection of the landfill and surrounding site areas on September 10 and 11, 2013. 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, 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 C. A site plan showing key site features is provided as Figure 2.

Rocterra's inspection indicates 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 site access road was observed to be generally clear of vegetation, obstructions or significant rutting. 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.

MAINTENANCE ACTIVITIES PERFORMED

Fence Repair

Two breaches in the fence were repaired along with some additional gaps along the southern property line. Photographs documenting the repair activities are included within Appendix C.

Mowing and Weed-Whacking

Annual mowing and weed-whacking activities were completed by Proscapes Landscaping on September 9, 10 and 11, 2013. 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. Areas along the east, west and south fence lines were cleared of vegetation, specifically where there were small trees or woody brush growing into the fence. Photographs documenting the landscaping activities are included within Appendix C.

PROPOSED YEAR 11 (2014) OM&M AND MAINTENANCE ACTIVITIES

Monitoring Well Repair

The protective casing on monitoring well MW-6 was damaged and has displaced the concrete base. The remnant concrete/base will be removed and a new concrete base will be poured in place, securing the protective casing.

Herbicide Application

Portions of the swales have become congested with vegetation. In addition, portions of the east, west and south fence line have areas where vegetation is resistant to mechanical removal or have limited access for mechanical removal. Treatment with a widely used aquatic herbicide, Rodeo, is proposed for Spring 2014.

Mowing and Weed-Whacking

In accordance with the OM&M Plan, the landfill will require annual mowing and weed-whacking in fall 2014 to prevent 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 11 of OM&M. The annual inspection is scheduled for October 2014.

PROPOSED AMENDMENTS

Groundwater Monitoring

TPC-York is requesting that the groundwater sampling frequency be amended to a fifteen-month monitoring period. This request is based on groundwater monitoring results to date. Lead concentrations in groundwater samples collected during 2009, 2010, 2011, 2012 and 2013 were all below the laboratory detection limit for lead in groundwater.

Subject to the NYSDEC's decision with regard to TPC-York's request relative to groundwater sampling frequency, the next sampling event is scheduled to be performed in December 2014. Pending review of the proposed schedule, this event is currently planned to include water-level gauging and collection of groundwater samples from monitoring wells MW-1, MW-2, MW-5, MW-6, MW-8 and MW-10 for lead analysis. In accordance with NYSDEC requirements, the groundwater samples will not be filtered in the laboratory prior to lead analysis.

Periodic Review Report

The last Periodic Review Report (PRR) was completed in November 2011. TPC-York has requested that the PRR schedule be amended to a five year frequency. The site is not currently active and site maintenance/activities are limited to the items reported above with no anticipated changes in site use.

Subject to the NYSDEC's decision with regard to TPC-York's request to amend the PRR submittal frequency, the next submission is scheduled to be completed in December 2016.

Please call the undersigned with any questions regarding this report.

Attachments:	Figure 1:	Site Location Map
	Figure 2:	Site Plan
	Figure 3:	Groundwater Sampling Map
	Appendix A:	Site Monitoring, Inspection and Maintenance Forms
	Appendix B:	Laboratory Analytical Report
	Appendix C:	Photographs

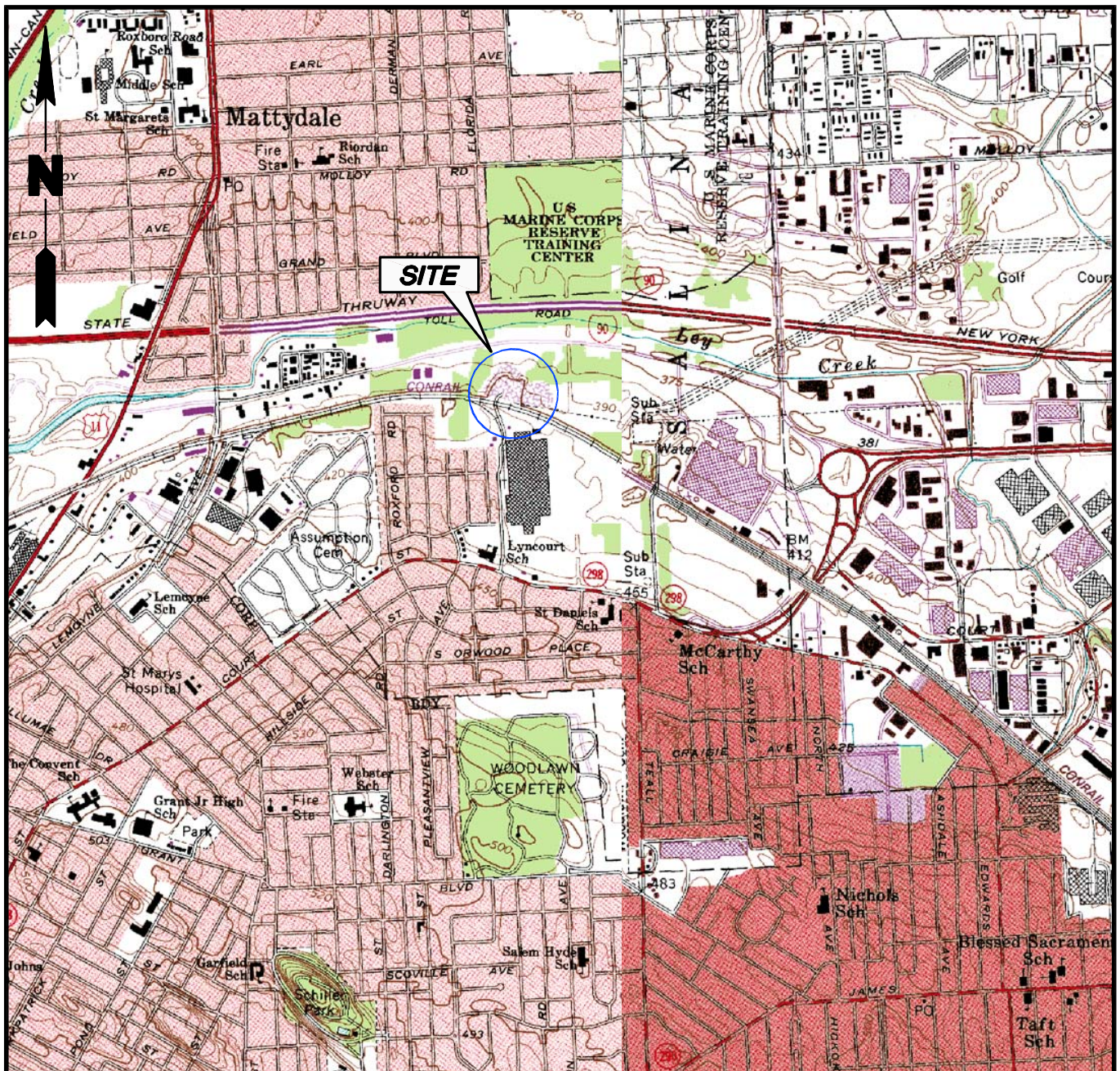


March 14, 2014

Alexander Wirth
Principal, Senior Geologist

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:

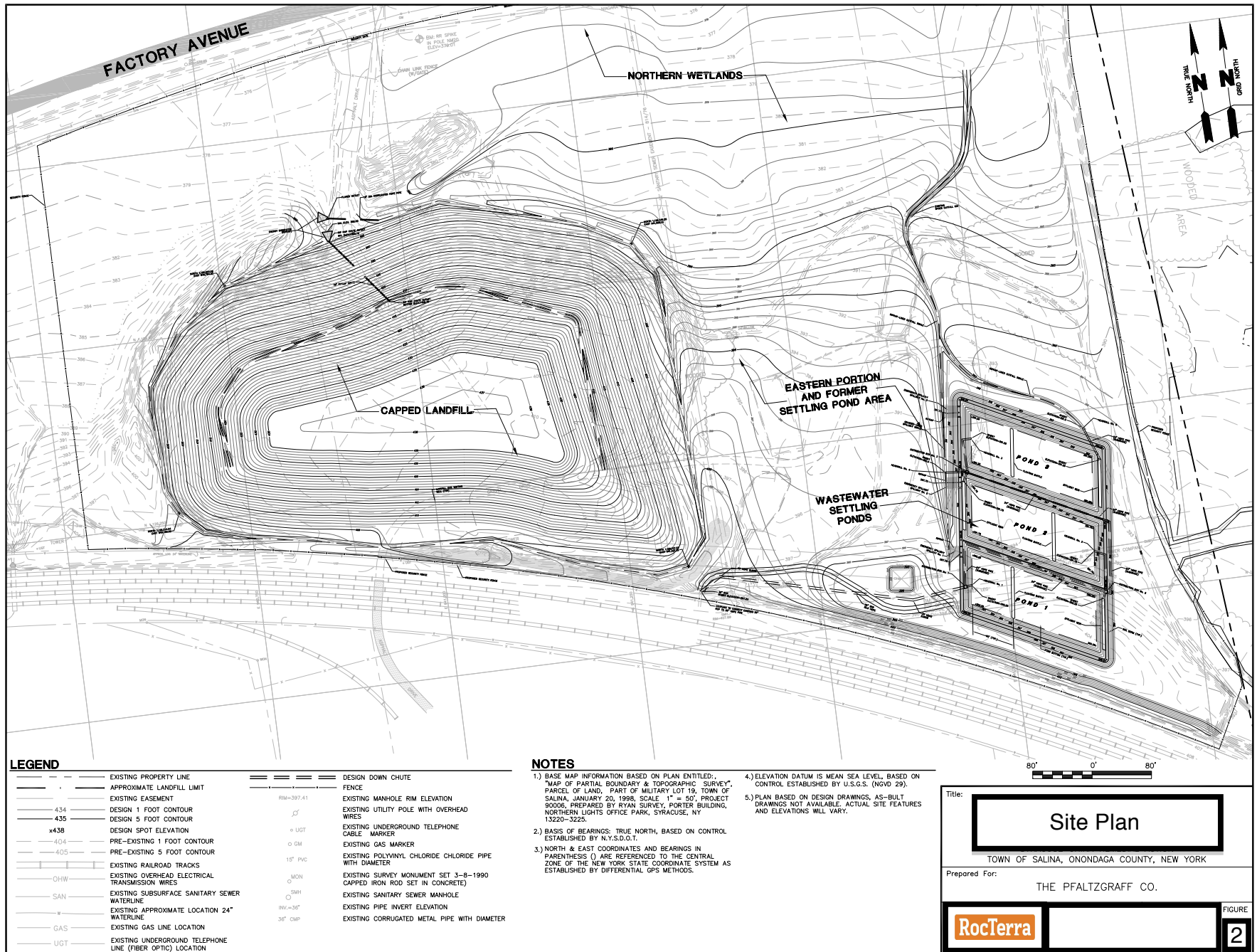
PFALTZGRAFF CO.

RocTerra

Site Location Map

FIGURE

1





Google Earth Pro



RocTerra

Groundwater
Sampling 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
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
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
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
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
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

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	NA	None
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	Stick up casing struck/damaged	Repair well casing/set new concrete base
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 2014
GV-2	Inspect for damage	NA	Annual inspection scheduled for October 2014
GV-3	Inspect for damage	NA	Annual inspection scheduled for October 2014
GV-4	Inspect for damage	NA	Annual inspection scheduled for October 2014
GV-5	Inspect for damage	NA	Annual inspection scheduled for October 2014
GV-6	Inspect for damage	NA	Annual inspection scheduled for October 2014
GV-7	Inspect for damage	NA	Annual inspection scheduled for October 2014
Landfill Cap	Inspect vegetation, inspect for erosion, inspect for significant/differential settling, mowing	NA	Landscaping/mowing scheduled for October 2014
Northern Wetland	Inspect vegetation	NA	Annual inspection scheduled for October 2014
Swales	Inspect for damage/blockage, weed wacking	Swales have significant vegetation	Herbicide application 2014
Drop Chute	Inspect for damage/blockage, weed wacking	NA	Landscaping/weedwacking scheduled for October 2014
Access Road (via Factory Ave)	Inspect for erosion, rutting, mowing	Low spot in southeast corner restricts access to the landfill by vehicle due to flooding/wet soils	Add gravel base to raise road elevation
Fence	Inspect integrity, inspect for significant vegetation	Significant vegetation along some areas of the fenceline	Herbicide application 2014
Signs	Inspect for vegetation/visual impairment	NA	Annual inspection scheduled for October 2014

Notes:
NA- Not Applicable

APPENDIX B



September 26, 2013

Service Request No: R1306651

Mr. Alex Wirth
RocTerra LLC
124 Woodstock Road
Rochester, NY 14609

Laboratory Results for: Syracuse China

Dear Mr. Wirth:

Enclosed are the results of the sample(s) submitted to our laboratory on September 11, 2013. For your reference, these analyses have been assigned our service request number **R1306651**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7473. You may also contact me via email at Deb.Patton@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Deb Patton
Project Manager

Page 1 of 8

CASE NARRATIVE

This report contains analytical results for the following samples:
Service Request Number: R1306651

<u>Lab ID</u>	<u>Client ID</u>
R1306651-001	MW-1
R1306651-002	MW-2
R1306651-003	MW-5
R1306651-004	MW-6
R1306651-005	MW-8
R1306651-006	MW-10

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.

00002

REPORT QUALIFIERS AND DEFINITIONS

- | | |
|---|--|
| <p>U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p>J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p>* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p>H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p># Spike was diluted out.</p> | <p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% (25% for CLP) difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as:</p> <p>LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p> |
|---|--|



Rochester Lab ID # for State Certifications¹

NELAP Accredited	Maine ID #NY0032	New Hampshire ID #
Connecticut ID # PH0556	Nebraska Accredited	294100 A/B
Delaware Accredited	Nevada ID # NY-00032	North Carolina #676
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047		Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	3010A
200.8	ILM05.3
6010C	3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3010A
6010 SPLP (1312) extract	3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: RocTerra LLC
Project: Syracuse China
Sample Matrix: Water

Service Request: R1306651
Date Collected: 9/9/13
Date Received: 9/11/13

Prep Method: EPA 3010A
Analysis Method: 6010C

Units: mg/L
Basis: NA

Lead, Total

Sample Name	Lab Code	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
MW-1	R1306651-001	0.010	U	0.010	0.002	1	9/16/13	9/25/13 10:37	
MW-2	R1306651-002	0.010	U	0.010	0.002	1	9/16/13	9/25/13 10:55	
MW-5	R1306651-003	0.010	U	0.010	0.002	1	9/16/13	9/25/13 11:02	
MW-6	R1306651-004	0.010	U	0.010	0.002	1	9/16/13	9/25/13 11:08	
MW-8	R1306651-005	0.010	U	0.010	0.002	1	9/16/13	9/25/13 11:14	
MW-10	R1306651-006	0.010	U	0.010	0.002	1	9/16/13	9/25/13 11:20	
Method Blank	R1306651-MB	0.010	U	0.010	0.002	1	9/16/13	9/25/13 08:30	

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: RocTerra LLC
Project: Syracuse China
Sample Matrix: Water

Service Request: R1306651

Date Analyzed: 9/25/13

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L

Basis: NA

Lab Control Sample R1306651-LCS					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Lead, Total	6010C	0.503	0.500	101	80 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

R1306651 **5**
RecTerra LLC
Syracuse China




Cooler Receipt and Preservation Check Form

Project/Client Rox Terra Folder Number _____

Cooler received on 9/11/13 by: DM COURIER: ALS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did VOA vials, Alkalinity, or Sulfide have significant* air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? ALS/ROC, CLIENT
7. Soil VOA samples received as: Bulk Jar Encore TerraCore Lab5035set N/A
8. Temperature of cooler(s) upon receipt: 4-3

Is the temperature within 0° - 6° C?: Y N Y N Y N Y N Y N

If No, Explain Below Date/Time Temperatures Taken: DM 9/11/13 10:35

Thermometer ID: IR GUN#3 IR GUN#4 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition & Client Approval to Run Samples:

All Samples held in storage location R-002 by DM on 9/11/13 at 10:44
 5035 samples placed in storage location _____ by _____ on _____ at _____

PC Secondary Review: DM

Cooler Breakdown: Date: 9/11/13 Time: 1550 by: JS

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies:

pH	Reagent	YES	NO	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH	Yes = All samples OK No = Samples were preserved at lab as listed PM OK to Adjust: _____
≥12	NaOH									
≤2	HNO ₃									
≤2	H ₂ SO ₄									
<4	NaHSO ₄									
Residual Chlorine (-)	For TCN Phenol and 522			If present, contact PM to add ascorbic acid Or sodium sulfite (522)						*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet
	Na ₂ S ₂ O ₃	-	-							
	Zn Aceta	-	-							
	HCl	*	*							

Bottle lot numbers: client
 Other Comments:

PC Secondary Review: DM *significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

P:\INTRANET\QAQC\Forms Controlled\Cooler Receipt r6.doc

11/6/12

000008

APPENDIX C

Site Photos



Cap: Facing Southeast



Cap: Facing Northeast



Access Road (Factory Ave): Facing South



Top Swale: Facing East



Bottom Swale: Facing West



South Fence Line Vegetation
Removal/fence improvement

East Fence Line Vegetation Removal



Fence Repair: East Fence Line



Fence Repair: West Fence
Line