Charles Gibson Site Site No. 932063 Periodic Review Report

March 2, 2015

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I. INTRODUCTION

Brief Summary, Nature and Extent, Remedial History:

The Stipulation and Consent Judgment Approving Settlement Agreement was signed in 1985. Construction of the remedy on the Charles Gibson Site concluded in 1990. The remedy consisted of rerouting Cayuga Creek around and away from the waste, installation of a fully circumscribed soil-bentonite slurry wall barrier and installation of a double flexible membrane liner cap with a perimeter collection drain system. The first year of operations and maintenance (O&M) of the containment remedy for the site and the groundwater monitoring program began in 1993. Waters collected in the site perimeter collection drain system are managed by direct discharge to the City of Niagara Falls Wastewater Treatment Facility. The Charles Gibson site is classified as a commercial/small industrial/residential user (CSIRU) and does not require a permit.

Effectiveness of Remedial Program:

Groundwater monitoring indicates there are no increased concentrations of the Site compounds being monitored. Evaluation of the groundwater indicates that the containment remedy is effective. An evaluation of data from the piezometer pairs at the Site indicates that an inward hydraulic gradient has been established in the containment area of the site. Since 2003, concentrations of site compounds being monitored have been undetected or estimated at concentrations below the detection levels in all monitor wells. The remedial program is achieving the objectives of containing groundwater flow and maintaining groundwater quality standards.

Compliance:

There are no areas of non-compliance.

Recommendations:

The Operation and Maintenance program has shown that the conditions at the site are stable and consistent.

II. SITE OVERVIEW

Site Description and Nature/Extent Prior to Remediation:

The Site as now defined incorporates approximately two acres bounded to the east and north by Cayuga Creek, to the west by Tuscarora Road and to the south by Niagara Mohawk Power Corporation right-of-way and the Auto Zone Incorporated auto parts store and parking lot. The Site cap is slightly mounded with the center of the capped area essentially flat. The capped area is enclosed by a chain link fence. A wooden privacy fence is immediately next to and outside of the chain link fence on portions of the perimeter.

Remediation Chronology:

The Agreement includes a provision in the event that after seven years following the delivery of a Release of Liability (issued December 15, 1992), Olin demonstrates that conditions at the Site are such that the stated frequency or duration of the requirements are no longer necessary to determine whether the remediation is effective, Olin may reduce the

frequency and duration of such monitoring or inspections. Olin has submitted annual reports and has conducted the required monitoring for the duration of the remediation.

III. REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

The work performed for the Site during 2014 was reviewed and found to be in accordance with the approved O&M Manual (Revised 2009) as well as the NYSDEC approved reduction in annual sampling dated April 25, 2013. Groundwater monitoring indicates there are no increased concentrations of the Site compounds being monitored. Evaluation of the groundwater data generated during the 2014 monitoring year indicates that the containment remedy is effective. Drawdown in both manholes was effectively maintained at specified levels throughout the year.

IV. IC/EC PLAN

IC/EC Requirements:

Fence is in place around the landfill, effectively restricting access

Clean soil cover is in place on the landfill, restricting infiltration and promoting runoff

A hydraulic control system is in place, effectively controlling groundwater flow direction

Certification:

Attachment A

V. MONITORING PLAN COMPLIANCE REPORT

Components of Site Monitoring Plan:

The operation, maintenance, and monitoring (OM&M) activities to be performed include:

- Performance of a groundwater monitoring program to monitor ground water quality at the Site and to verify the inward hydraulic gradient within the capped area.
- The current groundwater level monitoring system for the Site consists of six piezometers (P-1 through P-6) and two manholes (A and B). Piezometers P-1, P-2 and Manhole A are located in the northeast section of the Site; P-3, P-4, and Manhole B are located in the southeast section; and P-5 and P-6 are located toward the southwest (see *Attachment B*). All piezometers are constructed of Schedule 80 PVC and are 2 inches in diameter. Each piezometer has been constructed with 5 feet of screen and was screened at the water table.
- The construction of the piezometer screens at the water table allows for continued monitoring of the water table elevation inside and outside of the containment area during periods of water level fluctuations. Piezometers P-1, P-3, and P-5 are located outside of the slurry wall that runs along the perimeter of the Site. Piezometers P-2, P-4, and P-6 are inside the slurry wall and paired opposite the three piezometers inside the slurry wall.
- Water level elevations will be measured quarterly at the Site. Manholes A and B and piezometers P-1 through P-6 will be measured. Water level elevations are measured by

means of an acoustical sounder or electronic water level probe. The sounder or probe is lowered into the manhole or piezometer until it makes contact with the free water surface. The depth from the top of the piezometer riser pipe or manhole rim to the water surface is measured to an accuracy of 0.01 ft. Depth to water measurements are converted into mean sea level elevations by referring to the surveyed elevation of the top of the piezometer riser pipe or manhole rim provided on the Groundwater Elevation Form. The depth to water measurements for Manholes A and B are checked to see that they are not greater than 10.27 feet and 12.41 feet, respectively to ensure that the automatic sump pump is functioning.

Summary and Comparison to Remedial Objectives:

The isolation of groundwater within the capped area has been established and is being maintained by current operation and maintenance activities. Since 2003, concentrations of Site compounds being monitored have been undetected or estimated at concentrations below the detection levels, in all monitor wells and Manhole B (*Table 1 & Table 2*). The groundwater monitoring and sampling is performed on an annual basis in rotating quarters to help assess seasonal variability with Groundwater Sampling Field Parameters presented in *Attachment C.*

Currently two locations, immediately upstream and downstream of the Site and the adjacent remediated portion of the Cayuga Creek bed, are sampled once per year, in the Fall or 'low water' period. Beginning with the October 2000 sample event, annual creek sediment samples have been analyzed for BHC isomers only. HCB results are undetected (U) for all sampling events since 1993. Sample collection and analysis of creek sediments are performed annually during the second half of the calendar year. The 2012 data show a decrease in all sediment parameters, both upstream and downstream (*Table 3*).

The water elevation data collected from the piezometers and ground water wells was used to determine whether an inward hydraulic gradient exists was made by comparing water level measurements within the capped area to those measured outside the capped area. The groundwater elevation data indicate that ground water within the capped area is consistent with historical data. An evaluation of data from the piezometer pairs at the Site indicates that an inward hydraulic gradient is being maintained for piezometer pair P5/P6 for all four quarters. In the second piezometer pair (P3/P4), a slight outward gradient occurred in the third quarter but returned back to an inward gradient by the fourth quarter. The third piezometer pair (P1/P2) had outward gradients during the first and third quarters but returned to inward gradients by the fourth quarter. Drawdown in both manholes was effectively maintained at specified levels throughout the year. *Table 4* shows the most recent tables for piezometric data demonstrating that inward gradient.

Deficiencies:

None

Recommendations for Changes:

The Operation and Maintenance program has shown that the conditions at the site are stable and consistent.

VI. O&M PLAN COMPLIANCE REPORT

Components of the O&M Plan:

Site remediation requirements have been met by Olin through rerouting of Cayuga Creek around and away from the waste, by constructing a fully circumscribing soil-bentonite slurry wall barrier, and through installing a double flexible membrane liner cap as part of the final cover with a perimeter collection drain system. The O&M Plan safeguards that remedy and provide for monitoring of the Gibson Site in compliance with the Settlement Agreement.

Inspections, on at least a quarterly basis, of the Site are conducted to identify any potential problems with physical deterioration of structures, possible malfunctions of the slurry wall or of the perforated CPVC drain system, and to ensure that all site remedial measures components are operating effectively, in accordance with the Settlement Agreement.

The Environmental Inspector conducts the inspections to ensure that the remedial measures at the Site will remain operative in a manner that will minimize the need for extra maintenance. Additionally, the inspections address the safeguards to control, minimize or eliminate threats to human health and the environment. The potential post-remediation threats include the release of HCB, BHC, or contaminated leachate to the groundwater, and/or the creek.

Operation, maintenance, and monitoring activities are conducted to identify proposed changes to the O&M Manual or site procedures which would provide a safer and/or more efficient and cost-effective operation.

Recordkeeping is conducted for each site visit and inspection.

Operation & Monitoring (O&M) Summary:

The groundwater collection system is inspected semi-annually for the buildup of hard or soft scale-like deposits. The inspection is performed concurrently with inspection of the capped area. If a component of the groundwater collection system is found to be damaged or malfunctioning, it is repaired or replaced.

The capped area is mowed on a regular basis to prevent establishment of woody vegetation during this reporting period. The capped area functions as designed and complies with the O&M Plan.

Inspections are conducted using the items listed on the Site Inspection Form presented in **Attachment D.** Information to be entered on these forms includes the inspector's name, date, and time of inspection, item inspected and any comments. The inspector indicates on the forms whether the condition of each item was acceptable or unacceptable to ensure that the requirements of this O&M Plan are fulfilled. The scheduled Site monitoring inspections are performed by a qualified individual assigned to inspect the items and systems noted on the Site Inspection Form. The completed Site Inspection Forms are maintained at Olin Environmental Remediation offices in Cleveland, TN. Inspections are performed, at a minimum, on a quarterly basis.

Evaluation of Remedial Systems:

All components are performing as designed.

O&M deficiencies:

None

Conclusions:

The O&M system is being run and maintained properly and does not require additions or modifications at this time.

VII. OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS

Compliance with SMP:

Based on the operations and maintenance documentation listed above, the system requirements are being met. There are no new exposure pathways. Additional plans and modifications are not necessary.

Remedy Effectiveness:

Based on the data developed to date, the remedy has been effective in attaining the remedial objectives.

The isolation of ground water within the capped area has been established and is being maintained by current operation and maintenance activities.

Review of the groundwater elevation data indicate that inward hydraulic gradients were observed between piezometers within the capped area and piezometers outside of the capped area with one previously noted exception. Fluctuations of groundwater elevations indicate that minor outward hydraulic gradients occur, but typically revert back to inward gradients by the next quarter.

Currently two locations, immediately upstream and downstream of the Site and the adjacent remediated portion of the Cayuga Creek bed, are sampled once per year, in the Fall or 'low water' period. A sample is collected downstream of the Site to monitor changes in levels of contaminants in creek sediments, if any. The other sample, immediately upstream of the Site is used to monitor potential upstream contaminant sources or potential 'backwash' effects caused by the changing level of the Niagara River. Beginning with the October 2000 sample event, annual creek sediment samples have been analyzed for BHC isomers only. HCB results are undetected (U) for all sampling events since 1993.

Future Submittals:

Future submittals of this report will be done on an annual basis.

Attachment A

Institutional & Engineering Certification Form

<u>Attachment A</u>

Institutional & Engineering Certification Form



Enclosure 2 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form



Site Details Box 1 Site No. 932063 Site Name Charles Gibson Site Site Address: N.E. Cnr. of Niagara Falls Blvd. & Tuscarora Rd. Zip Code: 14304 City/Town: Niagara Falls County: Niagara Site Acreage: 2.0 Reporting Period: January 31, 2014 to January 31, 2015 YES NO 1. Is the information above correct? If NO, include handwritten above or on a separate sheet. 2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period? 3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? 4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form. 5. Is the site currently undergoing development? Box 2 YES NO 6. Is the current site use consistent with the use(s) listed below? П Closed Landfill 7. Are all ICs/ECs in place and functioning as designed? IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue. A Corrective Measures Work Plan must be submitted along with this form to address these issues. Signature of Owner, Remedial Party or Designated Representative Date

SITE NO. 932063 Box 3

Description of Institutional Controls

Parcel

Owner

161.05-3-7

Olin Corporation

Institutional Control

Monitoring Plan

O&M Plan

Consent Judgement 3/12/85 including IC stipulations p. 23 Permits and Easements, sections 11-24.

- Groundwater Quality Monitoring
- Leachate Monitoring
- Creek Sediment Monitoring

161.05-5-12

Olin Corporation

Monitoring Plan

O&M Plan

Consent Judgment 3/12/85 including IC stipulations p. 23 Permits and Easements, sections 11-24.

- Groundwater Quality Monitoring
- Leachate Monitoring
- Creek Sediment Monitoring

Box 4

Description of Engineering Controls

Parcel

Engineering Control

161.05-3-7

Cover System

Groundwater Containment Leachate Collection Fencing/Access Control

- Realignment of Cayuga Creek
- Slurry Wall
- Double Membrane Liner
- Cap
- Perimeter Leachate Collection System with discharge to NFWWTP.
- Perimeter Fence

161.05-5-12

Cover System

Groundwater Containment Leachate Collection Fencing/Access Control

- Realignment of Cayuga Creek
- Slurry Wall
- Double Membrane Liner
- Cap
- Perimeter Leachate Collection System with discharge to NFWWTP.
- Perimeter Fence

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	Periodic Review Report (PRR) Certification Statements		
1.	. I certify by checking "YES" below that:		
	 a) the Periodic Review report and all attachments were prepared under the direct reviewed by, the party making the certification; 	tion of,	and
	 b) to the best of my knowledge and belief, the work and conclusions described in are in accordance with the requirements of the site remedial program, and general engineering practices; and the information presented is accurate and compete. 	ally acc	epted
		YES	NO _
2.	If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for e or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that following statements are true:		
	(a) the Institutional Control and/or Engineering Control(s) employed at this site is the date that the Control was put in-place, or was last approved by the Departmen		nged since
	(b) nothing has occurred that would impair the ability of such Control, to protect p the environment;	ublic h	ealth and
	 (c) access to the site will continue to be provided to the Department, to evaluate tendered including access to evaluate the continued maintenance of this Control; 	he rem	nedy,
	(d) nothing has occurred that would constitute a violation or failure to comply with Management Plan for this Control; and	the Si	te
	(e) if a financial assurance mechanism is required by the oversight document for mechanism remains valid and sufficient for its intended purpose established in the		
		YES	NO
	· · · · · · · · · · · · · · · · · · ·		
	IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.		
	A Corrective Measures Work Plan must be submitted along with this form to address the	se issı	ies.
	Signature of Owner, Remedial Party or Designated Representative Date		

IC CERTIFICATIONS SITE NO. 932063

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

	Ococe St., Cleveland TN 37421, nt business address
am certifying as Olm (orporation	(Owner or Remedial Party)
for the Site named in the Site Details Section of this for	n.
Signature of Owner, Remedial Party, or Designated Re Rendering Certification	presentative Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

print name

at 3855 N. Ouce St., Cleveland th 37421

print business address

am certifying as a Professional Engineer for the

Olin Corporation

(Owner or Remedial Party)

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

(Required for PE)

<u>Attachment B</u>

Site Features Map Figure 1



<u>Attachment C</u>

Field Sampling Forms

CHARLES GIBSON SITE NIAGARA FALLS, NEW YORK NYSDEC REGISTRY NO. 9-32-063 GROUNDWATER SAMPLING FIELD PARAMETERS FIELD INSTRUMENTATION CALIBRATION FORM

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ONE WELL VOLUME = .735 (GALS) MAY 12.50 PURGE METHOD: REMAYRALTIC PUMP MW-4 13.76 BOTTOM OF WELLISHIT BUILDUP: NONE MW-5 15.28' PURGE START TIME: 14 10 STOP TIME: 1420 PURGE OBSERVATIONS: WELL WATER LEVEL WAS DROPFING FAST. TWOK 3 READINGS FIELD PARAMETER MEASUREMENTS: SPECIFIC CONDUCTIVITY TEMP. YOUUME PH Umhos/om) (C OR F) NOTES: 1 .541 8.01 7.04 12.1 2 1 541 7.50 810 12.7 3 1.541 7.50 812 12.6 GROUNDWATER OR SEDIMENT SAMPLING DATA: SAMPLE DATE: 9 18 14 5 TOTAL VOLUME PURGED: 1.5 541 GROUNDWATER OR SEDIMENT SAMPLING DATA: SAMPLE TIME: 1420 CREEK SEDIMENT LOCATION: E of RAUER REALIPO HOTEL SAMPLE METHOD: PERASTRITIC RUMP DEDICATED THEMS SAMPLE METHOD: PERASTRITIC RUMP DEDICATED THEMS SAMPLES TAKEN: No. OTHER OBSERVATIONS/COMMENTS: STAMPLS AT 1420 OF 9 15 44 CHAITED VOLUME SC measured					EPTHS:	
PURGE METHOD: REMASHALTIC PUMP PURGE METHOD: REMASHALTIC PUMP BOTTOM OF WELL/SILT BUILDUP: NONE BOTTOM OF WELL/SILT BUILDUP: NONE PURGE START TIME: 1410 STOP TIME: 1420 PURGE OBSERVATIONS: WELL STOP TIME: 1420 PURGE OBSERVATIONS: WELL SPECIFIC CONDUCTIVITY TEMP. (C OR F) NOTES: 1.541 7.54 810 12.7 3 1.541 7.50 4 5 TOTAL VOLUME PURGED: 1.5 541 GROUNDWATER OR SEDIMENT SAMPLING DATA: SAMPLE TIME: 1420 GROUNDWATER OR SEDIMENT LOCATION: E of RUMER REALIPD HOTEL SAMPLE METHOD: PERASTRATIC RUMP DEDICATED TABLES SAMPLES TAKEN: NO. OTHER OBSERVATIONS/COMMENTS: SAMPLED AN FOL PEST APP ON EACH OTHER OBSERVATIONS/COMMENTS: SAMPLED AN 1420 OF 15 ML LIMITED WOLLING SC measured	2" DIA. WELL CONS					
PURGE METHOD: REMASKALTIC PUMP MW-4 13.75' BOTTOM OF WELL/SILT BUILDUP: MONTE MW-5 15.28' PURGE OBSERVATIONS: JAMEL WATER LEVEL LIMS DASPING FAST. TOOK 3 DEADINGS AND PURGE OSSERVATIONS: JAMEL WATER LEVEL LIMS DASPING FAST. TOOK 3 DEADINGS FIELD PARAMETER MEASUREMENTS: SPECIFIC CONDUCTIVITY TEMP. (C OR F) NOTES: 2 154 7.56 810 12.7 3 1.54 7.50 812 12.6 4 5 TOTAL VOLUME PURGED: 1.5 54 GROUNDWATER OR SEDIMENT SAMPLING DATA: SAMPLE DATE: 9 18 14 MEDIA: GROUNDWATER CREEK SEDIMENT LOCATION: E of RUMER BEHAND HOTEL SAMPLE METHOD: PERASTRITIC PUMP DEDICATED THANKS SAMPLE METHOD: PERASTRITIC PUMP DEDICATED THANKS OTHER OBSERVATIONS: WAS ANY ARLE D CARB DNE JAA FOR PEST SAM SAM OTHER OBSERVATIONS/COMMENTS: STAMPLED BY 1420 OF 9 15 44 LIMITED WILLIAM SC measured	ONE WELL VOLUM	E= .35	(GALS)			
BOTTOM OF WELL/SILT BUILDUP: NONE PURGE OBSERVATIONS: JUNE PURGE OBSERVATIONS: JUNE BOTTOM OF WELL/SILT BUILDUP: NONE PURGE OBSERVATIONS: JUNE BOTTOM OF IMEL STOP TIME: 1420 PURGE OBSERVATIONS: JUNE BOTTOM OF IMEL STOP TIME: 1420 SPECIFIC CONDUCTIVITY TEMP. (C OR F) NOTES: SPECIFIC CONDUCTIVITY TEMP. (C OR F) NOTES: 1,541 1,	DUDGE METHOD: TERASTRUTIC PUR	n.P	•			
PURGE START TIME: 1410 PURGE OBSERVATIONS: WELL NATION LEVEL LINES DROPPING FIRST. TOOK 3 READINGS PROPRINGE OBSERVATIONS: WESTERN LEVEL LINES DROPPING SPECIFIC CONDUCTIVITY TEMP. (C OR F) NOTES: 1,54, 7,50 3 1.54, 7,50 4 5 TOTAL VOLUME PURGED: 1,5 54, GROUNDWATER OR SEDIMENT SAMPLING DATA: SAMPLE DATE: 9 18 14 SAMPLE TIME: 1420 SAMPLE METHOD: PERSTRUCT RUMP DEDICATED TABLES SAMPLE METHOD: PERSTRUCT RUMP DEDICATED TABLES SAMPLES TAKEN: NO. OTHER OBSERVATIONS/COMMENTS: SAMPLED NT 1420 OF 9 15 14 LIMITED VOLUME SC measured	BOTTOM OF WELL/SILT BUILDUP: NONE	₹		MW-5 15.28'		
FIELD PARAMETER MEASUREMENTS: SPECIFIC CONDUCTIVITY TEMP. VOLUME PH Umhos/cm) (C OR F) NOTES: 1,54 & 5 TOM 12 L 2 1 4 T.56 \$10 12.7 3 1.54 7.50 \$12 12.6 GROUNDWATER OR SEDIMENT SAMPLING DATA: SAMPLE DATE: 9 18 14 FOR SAMPLE TIME: 1420 SAMPLE TIME: 1420 SAMPLE METHOD: PERASTRICA RUMP DEDICATED TABLED SAMPLE METHOD: PERASTRICA RUMP DEDICATED TABLED SAMPLING OBSERVATIONS: WAS ARMY ABLE TO CARDS ONE JAN FOR PASS OF SAMPLES TAKEN: NOT	PURGE START TIME: 1410	STOP TIME: 142				
SPECIFIC CONDUCTIVITY TEMP. WELL CONDUCTIVITY TEMP. YOLUME PH Umhos/cm) (C OR F) NOTES: 1 ,5 4	PURGE OBSERVATIONS: WELL WATE	EN LEVEL WA	s Drupping	- FIRST. TOOK 3 RE	adin'63	
WELL VOLUME PH UMNOS/CM) (C OR F) NOTES: 1 .5 4	FIELD PARAMETER MEASUREMENTS:	LOTOS SUMPLY				
WOLUME PH UMNOS/CM) (CORF) NOTES: 1 ,5 4						
1,54 8.0 704 12.6 2 14 7.56 810 12.7 3 1.54 7.50 812 12.6 4 5 TOTAL VOLUME PURGED: 1.5 34 MEDIA: GROUNDWATER CREEK SEDIMENT CREEK SEDIMENT LOCATION: E of RUEL REHIND HOTEL SAMPLE METHOD: PERASTRIC RUMP DEDICATED TOPING SAMPLE METHOD: Was any acre of Carb dine Jan For PEST and one for Such Such Such Such Such Such Such Such	WELL			NOTES:		
2 SC 7.56 810 12.7 3 Syl 7.50 Siz 12.6 4 5 TOTAL VOLUME PURGED: Syl GROUNDWATER OR SEDIMENT SAMPLING DATA: SAMPLE DATE: 9 18 14 MEDIA: GROUNDWATER				_ NOTES.		
3 1.54 7.50 812 12.6 4 5 TOTAL VOLUME PURGED: 1.5 34 GROUNDWATER OR SEDIMENT SAMPLING DATA: SAMPLE DATE: 9[18]14 MEDIA: GROUNDWATER	3					
TOTAL VOLUME PURGED: 1.5 30) GROUNDWATER OR SEDIMENT SAMPLING DATA: SAMPLE DATE: 9(18/14) MEDIA: GROUNDWATER CREEK SEDIMENT LOCATION: E of RIVER BEHIND HOTEL SAMPLE METHOD: PERASTRITIC PUMP DEDICATED TABING SAMPLING OBSERVATIONS: WAS any acre to CAAB ONE JAA FOR PEST AND ONE OTHER OBSERVATIONS/COMMENTS: SAMPLED AT 1420 ON 9 15 44 LIMITED WILLIAM SC measured						
TOTAL VOLUME PURGED: 1.5 301 GROUNDWATER OR SEDIMENT SAMPLING DATA: SAMPLE DATE: 9(18(14) MEDIA: GROUNDWATER CREEK SEDIMENT SAMPLE TIME: 1420 LOCATION: E of RULEA BEHIND HOTEL SAMPLE METHOD: PERASTRATIC RUMP DEDICATED TABLES SAMPLING OBSERVATIONS: WAS ANY DRUE TO CAAB DNE JAA FOR PEST AND ONE OTHER OBSERVATIONS/COMMENTS: STAMPLED AT 1420 02 9 15 44 CHMITED VOLUME SC measured		815	12.6			
GROUNDWATER OR SEDIMENT SAMPLING DATA: SAMPLE DATE: 9 18 14 MEDIA: GROUNDWATER SAMPLE TIME: 1420 CREEK SEDIMENT LOCATION: E of RULEA BEHIND HOTEL SAMPLE METHOD: PENASTRUTIC RUMP DEDICATED THEN SHOW SAMPLING OBSERVATIONS: WAS any acre to Char one Jan For Past and in E OTHER OBSERVATIONS/COMMENTS: Samples at 1420 or 9 15 14 Limited Willing SC measured						
GROUNDWATER OR SEDIMENT SAMPLING DATA: SAMPLE DATE: 9(18/14 MEDIA: GROUNDWATER CREEK SEDIMENT LOCATION: E of RUEL BEHIND HOTEL SAMPLE METHOD: PERASTRUTC PUMP DEDICATED TURING SAMPLING OBSERVATIONS: WAS ONLY ARE TO CARS ONE JAN FOR PEST AND ONE OTHER OBSERVATIONS/COMMENTS: SAMPLED AT 1420 02 9 18 14 LIMITED VOLUME SC measured	5				0	
GROUNDWATER OR SEDIMENT SAMPLING DATA: SAMPLE DATE: 9(18/14 MEDIA: GROUNDWATER CREEK SEDIMENT LOCATION: E of RUEL BEHIND HOTEL SAMPLE METHOD: PERASTRUTC PUMP DEDICATED TURING SAMPLING OBSERVATIONS: WAS ONLY ARE TO CARS ONE JAN FOR PEST AND ONE OTHER OBSERVATIONS/COMMENTS: SAMPLED AT 1420 02 9 18 14 LIMITED VOLUME SC measured		ĭ				
MEDIA: GROUNDWATER & SAMPLE TIME: 1420 LOCATION: E of RIVER BEHIND HOTEL SAMPLE METHOD: PERASTRITIC PUMP DEDICATED TUBING SAMPLING OBSERVATIONS: WAS any DRIE TO CADE ONE JAN FOR PEST AND ONE OC SAMPLES TAKEN: NO. OTHER OBSERVATIONS/COMMENTS: STAMPLED AT 1420 ON 9/18/14 LIMITED VOLUME SC measured	TOTAL VOLUME PURGED: 1.5 50					
MEDIA: GROUNDWATER & SAMPLE TIME: 1420 LOCATION: E of RIVER BEHIND HOTEL SAMPLE METHOD: PERASTRITIC PUMP DEDICATED TUBING SAMPLING OBSERVATIONS: WAS any DRIE TO CADE ONE JAN FOR PEST AND ONE OC SAMPLES TAKEN: NO. OTHER OBSERVATIONS/COMMENTS: STAMPLED AT 1420 ON 9/18/14 LIMITED VOLUME SC measured						
CREEK SEDIMENT LOCATION: E OF RIVER BEHIND HOTEL SAMPLE METHOD: PERASTRITIC PUMP DEDICATED TOPING SAMPLING OBSERVATIONS: WAS a ruy acce to CAAB DNE JAN FOR PEST AND ONE GC SAMPLES TAKEN: No. OTHER OBSERVATIONS/COMMENTS: STAMPLED AT 1420 or 9 15 44 CIMITED VOLUME SC measured	GROUNDWATER OR SEDIMENT SAMPL	ING DATA:	SAMPLE	DATE: 9 18 14		
CREEK SEDIMENT LOCATION: E OF RIVER BEHIND HOTEL SAMPLE METHOD: PERASTRITIC PUMP DEDICATED TOPING SAMPLING OBSERVATIONS: WAS a ruy acce to CAAB DNE JAN FOR PEST AND ONE GC SAMPLES TAKEN: No. OTHER OBSERVATIONS/COMMENTS: STAMPLED AT 1420 or 9 15 44 CIMITED VOLUME SC measured	d		CAMPLE	TIME: Juza		
LOCATION: E of RIVER BEHIND HOTEL SAMPLE METHOD: PERASTRITIC PUMP DEDICATED TOBING SAMPLING OBSERVATIONS: WAS ONLY ARE D GARB ONE JAN FOR PEST AND ONE QC SAMPLES TAKEN: No. OTHER OBSERVATIONS/COMMENTS: STAMPLED AT 1420 ON 9 18 4 LIMITED VOLUME SC measured	MEDIA. GROUNDWATER	-	SAMPLE	I IIVIE. 1709		
SAMPLE METHOD: PENASTINITIC PUMP DEDICATED TOPING SAMPLING OBSERVATIONS: WAS ONLY DOLE TO GARG ONE JAN FOR PEST AND ONE QC SAMPLES TAKEN: NO. OTHER OBSERVATIONS/COMMENTS: STAMPISD AT 1420 ON 9/18/14 CIMITED VOLUME SC measured	7					
SAMPLING OBSERVATIONS: WAS ONLY DOLE TO GADE DAE JAN FOR PEST AND ONE OTHER OBSERVATIONS/COMMENTS: STAMPLED AT 1420 02 9 18 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LOCATION: E OF RIVER R	EHIND HOTEL			.	
SAMPLING OBSERVATIONS: WAS ONLY DOLE TO GARB ONE JAN FOR PEST AND ONE OTHER OBSERVATIONS/COMMENTS: STAMPLED AT 1420 OF 9/18/4 LIMITED VOLLING SC measured	SAMPLE METHOD: PERASTRATIC	PUMP DEDICA	sied Turin	16		
OC SAMPLES TAKEN: NO. OTHER OBSERVATIONS/COMMENTS: STAMPISD NO 1420 07 9/18/44 CIMITED VOLLING SC measured		1	LANG DNE	JAN FOR PEST	ard on a	
OTHER OBSERVATIONS/COMMENTS: STANFIED NO 1420 02 9 18 4 LIMITED VOLLINE SC measured					Fin	Suc
SC measured	QC SAMPLES TAKEN: No.			1 (-	
SC measured	OTHER OBSERVATIONS/COMMENTS:	STAMPIED AT	1420 04	9/18 4 LIMITED	Volume	
			THE BAY	1		
			SC meas	sured		
Note: specific conductivity formula to 25 degrees Celclus: SC(25)= {{1-25}(0.02)}+1	Note: specific conductivity formula to 25 de	grees Celcius: SC(2				

RECORDED BY: C. JONES			-4-011814
SAMPLED BY: C. JONES	SAMPLIN	IG EVENT/D	ATE: 3rd QUARTER
COMPANY: SEVENSON	MONITO	RING WELL:	MU-4
	CONDITI	ON: Go	> D
GROUNDWATER PURGE DATA	PURGE DATE:		NOTE: ALL GIBSON SITE
DEPTH TO BOTTOM FROM TOP OF RISER		(FT.)	MONITORING WELLS ARE
DEPTH TO WATER FROM TOP OF RISER:		_(FT.)	2-INCH DIAMETER STAIN-
WATER COLUMN:	7.86	(FT.)	LESS STEEL. WELL DEPTHS:
2" DIA. WELL CONST		6	MW 1R 12.10
ONE WELL VOLUME	1.25	(GALS)	MW-2 12.13* MW-A3 11.95'
PURGE METHOD: PERSTALTIC FUMP BOTTOM OF WELL/SILT BUILDUP: NONE PURGE START TIME: 1235 PURGE OBSERVATIONS: HAD TO FLUSH	STOP TIME: 1300	to open	MW-4 13.75° MW-5 15.28'
FIELD PARAMETER MEASUREMENTS:			
	SPECIFIC		
WELL	CONDUCTIVITY	TEMP.	NOTES:
VOLUME -	umhos/cm)	(C OR F)	TIMBID
1 Ogals 7.84	596		ILICISI D
2 156 7.77	680	13.0	
3 2561 7.70	684	13.1	CLEAR
4 3gg 1.68	60	15.0	
TOTAL VOLUME PURGED: 3.5 54		SAMPLE	DATE: OLIVIA
GROUNDWATER OR SEDIMENT SAMPLIN	IG DATA:		
MEDIA: GROUNDWATER CREEK SEDIMENT		SAMPLE	TIME: (300
LOCATION: NE CORNER OF	AUTO ZONE	LIT	2
SAMPLE METHOD: PERASTAUTIC	PUMP DEDICATE	b TUBING	
The state of the s			
	CLEAN		N. 1. 20 20 11
QC SAMPLES TAKEN: Q QUID DU	CLEAN		1W-7-091814" WAS TAKEN
	CLEPAL IPLICATE LABI		(18/14 FOR PEST (BAC)
QC SAMPLES TAKEN: A BUND DU	CLEAN IPLICATE LABI	SC meas	SVOA (ACB)

RECORDED BY: C JONES		1D: MW-5-0-11819
SAMPLED BY: C Jones	SAMPLIN	G EVENT/DATE: 31 QLASTEL
COMPANY: SEVENSON	MONITOR	RING WELL: MW-5
	CONDITIO	ON: Coop
GROUNDWATER PURGE DATA	PURGE DATE:	NOTE: ALL GIBSON SITE
DEPTH TO BOTTOM FROM TOP OF RIS	SER: 15 28	(FT.) MONITORING WELLS ARE
DEPTH TO WATER FROM TOP OF RIS		_(FT.) 2-INCH DIAMETER STAIN-
WATER COLUMN	10,90	(FT.) LESS STEEL. WELL DEPTHS:
2" DIA. WELL COI	NSTANT: 0.16	6 MW 1R 12.16
ONE WELL VOLU PURGE METHOD: FEIRSTMUTIC FUN BOTTOM OF WELL/SILT BUILDUP: 120, PURGE START TIME: (150)	P	(GALS) MW-2 12.13* MW-A3 11.95' MW-4 13.75' MW-5 15.28
PURGE OBSERVATIONS: SCICATO		
FIELD PARAMETER MEASUREMENTS:		
WELL VOLUMEpH	SPECIFIC CONDUCTIVITY umhos/cm)	TEMP. (C OR F) NOTES:
0 91 1 7.84	1110	121 SUGHTLY TENGO
Z gal 2 7.56	989	12.4
4 4 3 7.52	984	12. 9
6 4 749	981	12.5 CLEAR
5		
TOTAL VOLUME PURGED: 6 5allo	ns	ii
GROUNDWATER OR SEDIMENT SAME	PLING DATA:	SAMPLE DATE: 9 (18/14
MEDIA: GROUNDWATER & CREEK SEDIMENT		SAMPLE TIME: 1226
LOCATION: SE OF LANDE	ill	
SAMPLE METHOD: PERASTALT	C PUMP DEDICATE	tubing .
SAMPLING OBSERVATIONS: WAT	EN CLEAR	e e
QC SAMPLES TAKEN: MS MSO	TAKEN HERE	
OTHER OBSERVATIONS/COMMENTS:	SIMPLED AT 12	10 ON 9/18/14 FOR PESTICIDES (BIK
		SC measured (ACB)
Note: specific conductivity formula to 25 of	degrees Celcius: SC(25)=	{{T-25)(0.02)}+1

RECORDED BY: M. Waiter	SAMPLE ID: US	-1-091814
SAMPLED BY: CJONES / M. WALKER	SAMPLING EVENT/	DATE: 9-18-14
COMPANY: SEVENSON	MONITORING WEL	L: <u>Creekbed Sediment</u>
	CONDITION:	
GROUNDWATER PURGE DATA PURGE I	DATE:	NOTE: ALL GIBSON SITE
TO BOTTOM FROM TOP OF DISER.	(FT.)	MONITORING WELLS ARE
DEPTH TO BOTTOM FROM TOP OF RISER:	(FT.)	2-INCH DIAMETER STAIN-
DEPTH TO WATER FROM TOP OF RISER:	(FT.)	LESS STEEL. WELL DEPTHS
WATER COLUMN: 8" DIA. WELL CONSTANT:	0.16	MW 1R 12.10
	(GALS)	MW 2 12/3
ONE WELL VOLUME=	(GALS)	MW-A3 1.95'
PURGE METHOD:		MW-4 13.75'
BOTTOM OF WELL/SILT BUILDUP: BURGE START TIME: STOP TI	ME-	MW-5 15.28'
PURGE START TIME: STOP TIPURGE OBSERVATIONS:		
PERSONAL PROPERTY OF THE PERSON OF THE PERSO		
FIELD PARAMETER MEASUREMENTS:	. \/	
WELL SPECIFICATION CONDUCTION CON		
VOLUME pH umhos/c		NOTES:
1		
2		
3		
3 4	,	
4	,	
4		
4 5	,	
4 5	: SAMPL	E DATE: 9-18-14
4 5 TOTAL VOLUME PURGED: GROUNDWATER OR SEDIMENT SAMPLING DATA	: SAMPL	0000
4 5 TOTAL VOLUME PURGED: GROUNDWATER OR SEDIMENT SAMPLING DATA MEDIA: GROUNDWATER CREEK SEDIMENT	SAMPL	E TIME: 0900
TOTAL VOLUME PURGED: GROUNDWATER OR SEDIMENT SAMPLING DATA MEDIA: GROUNDWATER CREEK SEDIMENT LOCATION: TAMOLE FARE FROM THE SEDIMEN	SAMPL wil TALLO IN CAYUSA	e time: 0900 Papel upstrang the Ca
TOTAL VOLUME PURGED: GROUNDWATER OR SEDIMENT SAMPLING DATA MEDIA: GROUNDWATER CREEK SEDIMENT LOCATION: TAMOLE FARE FROM THE SEDIMEN	SAMPL WITHAN IN CAYURA GATE POSTS IN THE	e time: 0900 Papel upstrang the Ca
TOTAL VOLUME PURGED: GROUNDWATER OR SEDIMENT SAMPLING DATA MEDIA: GROUNDWATER CREEK SEDIMENT LOCATION: JAM OLE FALED FROM THE STEEL PARRA NET TO THE STEEL	SAMPL will Than in Cayural Cote Posts in the EDINENT TRAP	e time: 0900 Papel upstrang the Ca
TOTAL VOLUME PURGED: GROUNDWATER OR SEDIMENT SAMPLING DATA MEDIA: GROUNDWATER CREEK SEDIMENT LOCATION: JAMPIE TOLEN FROM THE STEEL PARRA VET TO THE STEEL SAMPLE METHOD: Composite Simple From S	SAMPL will Than in Cayural Cote Posts in the EDINENT TRAP	ETIME: 0900 Capple upstrang the Ca
TOTAL VOLUME PURGED: GROUNDWATER OR SEDIMENT SAMPLING DATA MEDIA: GROUNDWATER CREEK SEDIMENT LOCATION: JAMPIE TOLED FROM THE SETENTE SAMPLE METHOD: COMPOSITE SAMPLE FROM S SAMPLING OBSERVATIONS: Brown S. Ily S QC SAMPLES TAKEN: NO	SAMPL will Than in Cayural Cote Posts in the EDINENT TRAP	ETIME: 0900 Capple upstrang the Ca
TOTAL VOLUME PURGED: GROUNDWATER OR SEDIMENT SAMPLING DATA MEDIA: GROUNDWATER CREEK SEDIMENT LOCATION: SAMPLE TOLED FROM THE SETENCE SAMPLE METHOD: COMPOSITE SAMPLE FROM S SAMPLING OBSERVATIONS: Brown S. Ily S QC SAMPLES TAKEN: NO	SAMPL will Thep in Cayoga Gote Posts in the Edinent trap	ETIME: 0900 Papel upstrang the Car feout believery. Lot in the teap sed the trap and

RECORDED BY: W. WALKEN	SAMPLE	ID: D2	-1-091814	L) 1415-11-1071
SAMPLED BY: C. Jones /M. Warke	M SAMPLIN	NG EVENT/D	ATE: 9-18-14	
COMPANY: SENENSON			CREEKSEDIM	ENÍ
	CONDIT	ION:		
GROUNDWATER PURGE DATA	PURGE DATE:		NOTE: ALL GIBSON	SITE
DEPTH TO BOTTOM FROM TOP OF RISE	ER:	(FT.)	MONITORING WELL	
DEPTH TOWATER FROM TOP OF RISER	R:	(FT.)	2-INCH DIAMETER	STAIN-
WATER COLUMN:		(FT.)	LESS STEEL. WELL	DEPTHS:
2" DIA. WELL CONS	STANT: 0.	<u>16</u>	MW 12.10	
ONE WELL VOLUME	E=	(GALS)	12.13°	
PURGE METHOD: BOTTOM OF WELL/SILT BUILDUR PURGE START TIME: PURGE OBSERVATIONS:	STOP TIME:		MW-A3 11.95' MW-4 13.75' MW-5 15.28'	
FIELD PARAMETER MEASUREMENTS:				
WELL VOLUME pH	SPECIFIC CONDUCTIVITY umhos/cm)	TEMP. (C OR F)	NOTES:	
2				
3				
4	3			_
5				_
				1
TOTAL OLUME PURGED:				
ADOLINDWATER OF SEDIMENT SAMPL	ING DATA:	SAMPLE	DATE: 9-17-	14
GROUNDWATER OR SEDIMENT SAMPL	ING DATA:		DATE: 9-18-	14
GROUNDWATER OR SEDIMENT SAMPL MEDIA: GROUNDWATER CREEK SEDIMENT	ING DATA:	SAMPLE SAMPLE	000	14
MEDIA: GROUNDWATER CREEK SEDIMENT X LOCATION: Samples taken From the	sediment traje		Cayuga Cerl De	ensteem ence post from
MEDIA: GROUNDWATER CREEK SEDIMENT	SEDIMENT FRAIP	SAMPLE	Cayuga Creek De	emsterm Ence post from The Corner
MEDIA: GROUNDWATER CREEK SEDIMENT LOCATION: Sangles taken from the	SEDIMENT FRANCE LOCATED THIS SEDIMEN	SAMPLE Located in M. Panaalle SEDUNCE	Cayuna Creek De to Uther 2 mod F	who steems
MEDIA: GROUNDWATER CREEK SEDIMENT LOCATION: Samples taken from the OF the Cap.	SEDIMENT FRANK LOCATED MIDSTREA TAKEN FROM THE	SAMPLE Located in M. Panaalle SEDUNCE	Cayun Cerl De Cayun Cerl De Chap	who steems
MEDIA: GROUNDWATER CREEK SEDIMENT LOCATION: Samples taken from the OF the Cap. SAMPLE METHOD: Composite T SAMPLING OBSERVATIONS: Brown	SEDIMENT FRANCE LOCATED THIS SEDIMEN	SAMPLE Located in M. Panaalle SEDUNCE	Cayuna Creek De to Uther 2 mod F	who steems
MEDIA: GROUNDWATER CREEK SEDIMENT LOCATION: Samples taken from the OF the Cap. SAMPLE METHOD: Composite T SAMPLING OBSERVATIONS: Brown QC SAMPLES TAKEN: Doplicate Samples	SEDIMENT FRANCE LOCATED THIS SEDIMEN	SAMPLE Located in M. Panaalle SEDUNCE	Cayuga Cerl De La Cayuga Cerl	ensteem ence post from

. 1565 Jefferson Road, Building 300, Suite 360. • Rochester, NY 14623 ±1 585 288 5380 ±1 585 288 8475 (fax) PAGE

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		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	

<u>Attachment D</u>

Site Inspection Forms

THIS FORM TO BE USED FOR	QUARTERL	Y AND ALL O	THER SITE INSPECTIONS	
DATE: 3/18/19	_TIME:	1215		
INSPECTOR: C. JONES		COMPANY:	SEVENSON	
WEATHER: 40° SVHM				
REASON FOR INSPECTION (QU	JARTERLY	OR OTHER <u>):</u>	QUARTERNY	
			DTABLE AVACCEDTABLE	
subsidence (sinking), and rodent burrows.	ponded wa For site sec	s note existence ter, stressed ve curity, note abse	PTABLE A=ACCEPTABLE e of bare areas (number,size), cracks, egetation, soil discoloration or seeps, ence of locks, gates open or damaged, ny other unusual occurences.)	T to must shadown too
		С	OMMENTS	
ACCESS ROAD	A	4 =	SHOW/ICE COVER	
COVER VEGETATION	A	_	1/2 SNOW COVER	
TREES	A			
LITTER	A		PICKED UP MINIMUM TRASH ALONG	fen Ce
EROSION (CAP)	A			
EROSION (BANK)	A			
SECURITY:				
FENCE/LOCKS	A	_ <	SOME GRAPHITTI ON WEST SIDE OF FE	NCE
PIEZOMETERS/LOCKS	A			
MONITORING WELLS/LOCKS	F	_		
MANHOLES/LIDS/LOCKS	A	_		
ELECTRICAL PANEL	A			
ADDITIONAL COMMENTS:				is a second of the second of t
	——————————————————————————————————————	La Control Control	<u> </u>	
				•
W. C.				

TO THE PARTY OF TH
THIS FORM TO BE USED FOR QUARTERLY AND ALL OTHER SITE INSPECTIONS
DATE: <u>5-9-14</u> TIME: <u>0800</u>
INSPECTOR: WALKER / JONES COMPANY: SEVENSON
WEATHER:
, , , ,
REASON FOR INSPECTION (QUARTERLY OR OTHER): Butterly 1250
GENERAL SITE CONDITIONS: U=UNACCEPTABLE A=ACCEPTABLE (Note: For general site conditions note existence of bare areas (number, size), cracks, subsidence (sinking), ponded water, stressed vegetation, soil discoloration or seeps, and rodent burrows. For site security, note absence of locks, gates open or damaged, missing signs or evidence of vandalism. Note any other unusual occurences.)
COMMENTS
ACCESS ROAD A
COVER VEGETATION U BARE SOUTS, MOSS Choking out gass Cover
TREES 1) 3 days on front BORN
LITTER A
EROSION (CAP)
EROSION (BANK)
SECURITY:
FENCE/LOCKSA
PIEZOMETERS/LOCKS
MONITORING WELLS/LOCKS A
MANHOLES/LIDS/LOCKS
ELECTRICAL PANEL
ADDITIONAL COMMENTS: Some of the casings over the Riczonetons
have sucken into their footings, consing the well cours to press
Against the prezonetse caps. This makes it bifficult to colose them
proposely. I believe us can exprise then with a should a sone backfull
unitarial (top soil may work). There was now of the cap cover where a
LAIRE Amount of Green Moss is growing And chaking out the grass. Also some spots where there are buts in the Laure. 3 Pine trees in the centre of the front been have died.
Also some spots where there are buts in the cause.
3 Pine feets in the centre of the feout been view.
Let Stall
CDA 9142 (DA pup Directions)

THIS FORM TO BE USED FOR	QUARTER	LY AND AL	L OTHER S	SITE INSPECTIONS	
DATE: 7-10,11-14	TIME:	both days			
INSPECTOR: Walker, Jo	nes	COMPANY	<i>(</i> :	Sevenson	
	71103	-			
WEATHER:					
		COR OTHE	-D\:	Panair the Parimeter Fence	
REASON FOR INSPECTION (Q	UARTERL	YOROTHE	R).	Repair the Perimeter Fence	
GENERAL SITE CONDITIONS:				A=ACCEPTABLE	
(Note: For general sit	e conditions	s note exist	ence of bar	e areas (number,size), cracks, n, soil discoloration or seeps,	
and rodent burrows.	For site sec	curity, note	absence of	locks, gates open or damaged,	
missing signs or evid	ence of van	idalism. Not	te any othe	unusual occurences.)	
			COMMEN	TS	
ACCESS ROAD	Α	- 2			
COVER VEGETATION	<u>A</u>	- g			
TREES	<u>A</u>	- 9			
LITTER	<u>A</u> A	_			
EROSION (CAP) EROSION (BANK)	A	-	<u> </u>		
	•			Ÿ.	
SECURITY:					
FENCE/LOCKS	U		Wooden f	ence near SE corner was damage	d by wind, rot
PIEZOMETERS/LOCKS	<u>A</u>	_			
MONITORING WELLS/LOCKS	<u>A</u>	=			
MANHOLES/LIDS/LOCKS	<u>A</u>	_			
ELECTRICAL PANEL	AT 5	_			
ADDITIONAL COMMENTS:	Sevensor	on site wit	h Fox Fenc	e to repair fencing and posts dama	iged
earlier this season. All repairs c	omplete and	d site is nov	v secure.		į.
					9
				,	št.
11					
					,

THIS FORM TO BE USED FOR Q	UARTERLY AND ALL C	OTHER SITE INSPECTIONS	*
DATE.	COMPANY:	SEVENSON	ea ea
INSPECTOR: JONES	COMPANY	30,0,0,0	
WEATHER: 65° CLOLO)		
REASON FOR INSPECTION (QU	ARTERLY OR OTHER	3 ed QUARTER	e 3)
	120 E S		
subsidence (sinking), p	conditions note existen- conded water, stressed or site security, note ab	EPTABLE A=ACCEPTABLE ce of bare areas (number,size), cracks, vegetation, soil discoloration or seeps, sence of locks, gates open or damaged, any other unusual occurences.)	The contracts are companied to a sequential service of the contract of the con
	g.	COMMENTS	
ACCESS ROAD	_A		
COVER VEGETATION	A		
TREES	_A	A CAPLE TREES WOF LANDFILL MAYER	e dead
LITTER		FILLED CARBALE BAG	
EROSION (CAP)	A		* #1.4 (1.4 (1.1)
EROSION (BANK)	4		
SECURITY:	V (4) 2 (4) (5)		
FENCE/LOCKS PIEZOMETERS/LOCKS MONITORING WELLS/LOCKS MANHOLES/LIDS/LOCKS ELECTRICAL PANEL	A A A A	Counte Piez may need work as Disc	ussed Before
ADDITIONAL COMMENTS:		GET INSIDED THE FEBRUAR	
	s cut down.	Most wees 2' and under in	
dismeter.			
-			
	* * * * * * * * * * * * * * * * * * *		#7 W

THIS FORM TO BE USED FOR (QUARTERLY	AND ALL	OTHER SITE INSPEC	CTIONS		-	-
DATE: 12/8/14	TIME:	0900					
	-	OOMBANK	(-1=) (an)				
INSPECTOR: C. JONES		COMPANY:	SEVENSON	provided	week		
WEATHER: 360 PERTU	CLOUDY						
,	3					en graphic en	ru er dist
REASON FOR INSPECTION (QU	JARTERLY (OR OTHER	: 4th Quarter	n		COMMON SIGNATURE OF THE SAME PROPERTY OF THE SAME	
2							
GENERAL SITE CONDITIONS:			EPTABLE A=ACCEF		a) cracke	As a	the attribute.
(Note: For general site subsidence (sinking),	e conditions i ponded wate	er, stressed	vegetation, soil discol	oration o	or seeps,		
and rodent burrows.	For site secu	rity, note ab	sence of locks, gates	open or	damaged,	120	
MSPEC Cimissing signs or evide	ence of vanda	alism. Note	any other unusual occ	curences	S.)		
WHILE IT I		0	COMMENTS			*	
ACCESS ROAD	_A_	-				REMOVED FROM A	LOAT
COVER VEGETATION	A	7	LEGETATION LOOKES	(200D)	No 516	ins of moss	114 (0.00 10)
TREES	A	-					
LITTER	_A	€	PICKED UP MINIMAL	- GARI	SAGE ON	ISIDE SITE	
EROSION (CAP)	A						photographic
EROSION (BANK)	4		, persone				
SECURITY:							
WARE TO A PRESENT OF THE	Sant.						
FENCE/LOCKS	_A_						
PIEZOMETERS/LOCKS	A	. 9	TOTAL TOTAL CONTROL OF THE CONTROL O				
MONITORING WELLS/LOCKS						NT 2.	- %/ E/
MANHOLES/LIDS/LOCKS ELECTRICAL PANEL	A_						*)
		-0 A 9	WO WING				
ADDITIONAL COMMENTS:						a or terromore end	ç ç
<u> </u>							
SEC.19			-				
					M		
FENCELL OKS						4	
PREZONE TERRITOR						• i	
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M. C.						8 8 8 8 8	1 3 3

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NAMES OF THE PARTY OF THE PARTY

TABLE 1 **CHARLES GIBSON SITE** NIAGARA FALLS, NEW YORK

ANALYTICAL SUMMARY **GROUND WATER SAMPLING 2004-2014**

MONITOR WELL: MW-A3

	2	2004	20	005	2	2007	2	2008	2	009		2010	2	011		2012	2	013	2	2014
Parameter	April	September	May	September	April	September														
Alpha-BHC	.048U	.047U	.047U	.048U	.048U	-	048U	.048U	.049U	NR	ŇR	.034J	.053U	NR	NR	0.050U	0.047U	NR	NR	0.047U
Beta-BHC	.048U	.047U	.047U	.048U	.048U	-	.048U	.048U	.049U	NR	NR	.050U	.053U	NR	NR	0.050U	0.047U	NR	NR	0.047U
Gamma-BHC	.048U	.047U	.047U	.048U	.048U	180	.048U	.048U	.049U	NR	NR	.029J	.053U	NR	NR	0.050U	0.047U	NR	NR	0.047U
Delta-BHC	.048U	.047U	.047U	.048U	.048U	-	.048U	.048U	.049U	NR	NR	.050U	.053U	NR	NR	0.050U	0.047U	NR	NR	0.047U
Hexachlorobenzene	10U	NR	NR	NR	NR	NR	5U	NR	NR	NR	NR	NR	NR	NR	NR	20U	NR	NR	NR	9.4U

MONITOR WELL: MW-4

	2	2004	20	005		2007	2	2008	2	2009		2010	2	011		2012	2	013	2	2014
Parameter	April	September	April	September	April	September	May	September	April	September										
Alpha-BHC	.048U	.048U	.047U	.047U	.042J	.025J	.03J	.048U	.047U	NR	NR	.49U	0.076	NR	NR	0.047U	0.047U	NR	NR	0.047U
Beta-BHC	.048U	.037J	.047U	.036J	.033J	.047U	.037J	.048U	.047U	NR	NR	.49U	.048U	NR	NR	0.047U	0.047U	NR	NR	0.047U
Gamma-BHC	.048U	.048U	.047U	.047U	.048U	.047U	.05U	.048U	.047U	NR	NR	.49U	.0247J	NR	NR	0.047U	0.047U	NR	NR	0.047U
Delta-BHC	.048U	.048U	.047U	.047U	.048U	.047U	.024J	.048U	.047U	NR	NR	.49U	.048U	NR	NR	0.047U	0.047U	NR	NR	0.047U
Hexachlorobenzene	NR	9U	NR	NR	NR	NR	5U	NR	NR	NR	NR	4.9U	NR	NR	NR	9.4U	NR	NR	NR	9.4U

MONITOR WELL: MW-5

	2	2004	20	005		2007	2	2008	2	2009		2010	2	011		2012	2	013	2	2014
Parameter	April	September	May	September	April	September														
Alpha-BHC	.048U	.048U	.047U	.047UJ	.041J	.026J	.035J	.017J	.048U	NR	NR	.030J	.047U	NR	NR	0.047U	0.047U	NR	NR	0.050U
Beta-BHC	.048U	.048U	.047U	.047UJ	.025J	.048U	.052U	.047U	.048U	NR	NR	.049U	.047U	NR	NR	0.047U	0.047U	NR	NR	0.050U
Gamma-BHC	.048U	.048U	.047U	.047UJ	.047U	.048U	.027J	.018J	.048U	NR	NR	.025J	.017J	NR	NR	0.047U	0.047U	NR	NR	0.050U
Delta-BHC	.048U	.048U	.047U	.047UJ	.047U	.048U	.031J	.0094J	.048U	NR	NR	.049U	.047U	NR	NR	0.047U	0.047U	NR	NR	0.050U
Hexachlorobenzene	10U	NR	NR	NR	NR	NR	5U	NR	NR	NR	NR	4.7U	NR	NR	NR	9.4U	NR	NR	NR	9.4U

Notes: Concentration in ug/I
- insufficient sample
U Undetected

J Estimated value NR Not required

THIS FORM TO BE US			AND MANHOLE GF	ROUND-	
DATE: 5-9	1-14	TIME: 0800)		
INSPECTOR: O ARIS	LONG/M. WINK	ACOMPANY: 52	ven som		
WEATHER: 500	NY 75 F			W.	page, as
				#F	
PIEZOMETER	RISER ELEVATION (INSIDE CASING)	DEPTH TO WATER (FT.)	WATER . ELEVATION	COMMENTS	
P-1	572.72	6.82	565.5	E DES VOI GENERALE &	a statement of the
P-2	574.89	9.39	565.5	well carry sunk	
P-3 .	574.16	5.72	568.44	WELL CASING SUNK	
P-4	576.14	10.79	565.35	WELL CASING SUNK	
P-5	575.05	5.69	569.36	Well Casing Shifted	* W
P-6	578.28	10.46	567.82		
MANHOLE A	575.22	11.39	563.83	-	
MANHOLE B	577.34	13.43	563.91		
Niagara Tuscarora Ro in Manhole B (and by water distance from the	ad sanitary sewer line extension Manhole A) e manhole rim should	by a float controlled subblow an elevation of 5	imp pump which ma 565 ft. above mean s ft. at Manhole B and	itomatically to the Town of intains groundwater elevation sea level. Therefore, Depth to d 10.22 ft. at Manhole A.	S
ADDITIONAL COMME	ENTS/OBSERVATION	S: Sons of the	well easings	have souken	
Enough to CAU	sedifficulty w	, weshalling the	9,	et based to	
bé dug out +	Lifted they b	nekfilled. I b	ve lieve this c	ian he done	
by kind w/o	disturbing this	Actual PUC PLEZ	onelecs,		
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*				142 H	
	Congression County	×	3		

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OATE: 1	(18/14	TIME:03	30		
NSPECTOR: C.	ک ۱۹۶۶	COMPANY: 5	SEVENSUN	2	ti i i i i i i i i i i i i i i i i i i
VEATHER: 50	2 BANTLY CI	DUDY	•		
24 - CO 4	,		20mm/rej) (Au rigidada) (Carrier 1984)		
PIEZOMETER	RISER ELEVATION (INSIDE CASING		ER WATER ELEVATION	COMMENTS	
2-1	572.72	7.18	565.54	(<u>-</u>	2 IS S September 1970
P-2	574.89	8,01	566.88		8 19
p-3	574.16	8,79	565.37	g	
D-4	576.14	7.59	568.55		e p Ēlum
P-5	575.05	7.29	567.76		
P-6	578.28	<u> 11.11</u>	567.17		
MANHOLE A	575.22	11.95	563.27	S	e e e e e e e e e e e e e e e e e e e
No.			and the state of		. 3
MANHOLE B	577.34	B by gravity feed and M	S63.32 Vanhole B is pumped a	automatically to the	Town of
Note: Manhole A em Niagara Tuscarora R n Manhole B (and by water distance from to Note: riser elevation	npties into Manhole Road sanitary sewer y extension Manhol the manhole rim sh is (re)surveyed Sep	B by gravity feed and Nor line by a float controlle e A) below an elevation would not be less than 12 btember, 1999 by Wend	Manhole B is pumped and sump pump which no of 565 ft. above mear 2.41 ft. at Manhole B a	naintains groundwa n sea level. Therel	ater elevations fore, Depth to
Note: Manhole A em Niagara Tuscarora R n Manhole B (and by water distance from	npties into Manhole Road sanitary sewer y extension Manhol the manhole rim sh is (re)surveyed Sep	B by gravity feed and Nor line by a float controlle e A) below an elevation would not be less than 12 btember, 1999 by Wend	Manhole B is pumped and sump pump which no of 565 ft. above mear 2.41 ft. at Manhole B a	naintains groundwa n sea level. Therel	ater elevations fore, Depth to
Note: Manhole A em Niagara Tuscarora R n Manhole B (and by water distance from Note: riser elevation	npties into Manhole Road sanitary sewer y extension Manhol the manhole rim sh is (re)surveyed Sep	B by gravity feed and Nor line by a float controlle e A) below an elevation would not be less than 12 btember, 1999 by Wend	Manhole B is pumped and sump pump which no of 565 ft. above mear 2.41 ft. at Manhole B a	naintains groundwa n sea level. Therel	ater elevations fore, Depth to
Note: Manhole A em Niagara Tuscarora R n Manhole B (and by water distance from to Note: riser elevation	npties into Manhole Road sanitary sewer y extension Manhol the manhole rim sh is (re)surveyed Sep	B by gravity feed and Nor line by a float controlle e A) below an elevation would not be less than 12 btember, 1999 by Wend	Manhole B is pumped and sump pump which no of 565 ft. above mear 2.41 ft. at Manhole B a	naintains groundwa n sea level. Therel	ater elevations fore, Depth to
Note: Manhole A em Niagara Tuscarora R n Manhole B (and by water distance from Note: riser elevation	npties into Manhole Road sanitary sewer y extension Manhol the manhole rim sh is (re)surveyed Sep	B by gravity feed and Nor line by a float controlle e A) below an elevation would not be less than 12 btember, 1999 by Wend	Manhole B is pumped and sump pump which no of 565 ft. above mear 2.41 ft. at Manhole B a	naintains groundwa n sea level. Therel	ater elevations fore, Depth to
Note: Manhole A em Niagara Tuscarora R n Manhole B (and by water distance from to Note: riser elevation	npties into Manhole Road sanitary sewer y extension Manhol the manhole rim sh is (re)surveyed Sep	B by gravity feed and Nor line by a float controlle e A) below an elevation would not be less than 12 btember, 1999 by Wend	Manhole B is pumped and sump pump which no of 565 ft. above mear 2.41 ft. at Manhole B a	naintains groundwa n sea level. Therel	ater elevations fore, Depth to

THIS FORM TO BE U WATER ELEVATION	HIS FORM TO BE USED FOR ALL QUARTERLY PIEZOMETER AND MANHOLE GROUND- VATER ELEVATION MEASURING EVENTS ATE: 12/8/14 TIME: 090							
DATE: 12/8	14	TIME: 0900	<u> </u>	-				
INSPECTOR: C.	JONES	COMPANY: SEVE	EM SON					
WEATHER: 36	PAINTLY CLOSLOY	3						
	, , , , , , , , , , , , , , , , , , ,	DEDTH TO WATER	WATER	COMMENTS				
PIEZOMETER	RISER ELEVATION (INSIDE CASING)	DEPTH TO WATER (FT.)	ELEVATION	COMMENTS				
Paris	572.72	6.07	566.65		er er og og og i er er en en en en er er en			
P-2	574.89	9.81	565.08					
P-3	574.16	6.01	568.15					
P-4	576.14	10.99	565.15					
P-5	575.05	6.91	568.14					
P-6	578.28	11.42	566.86					
MANHOLE A	575.22	11.72	563.50		an in the second of the second			
MANHOLE B	577.34	13.78	563.56		· · · · · · · · · · · · · · · · · · ·			
Niagara Tuscarora Ro in Manhole B (and by water distance from the (Note: riser elevations)	pties into Manhole B by oad sanitary sewer line extension Manhole A) he manhole rim should s (re)surveyed Septemb	by a float controlled so below an elevation of not be less than 12.4	ump pump which n 565 ft. above meai 1 ft. at Manhole B a	naintains groundwa n sea level. Therei	ater elevations fore, Depth to			
P-1"	ENTS/OBSERVATION							
P_6	previous répos	•	P-4 P-5	are showing				
Signs of MP	1	4 well cases.	J		100 t 100 t			
17: 3		,						
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Table 5 Olin Corp. Gibson Site Discharge Volumes

Summary of Yearly Discharge Volumes

Date	Volume (gallons)
2004	65,082
2005	51,115
2006	52,891
2007	22,958
2008	40,223
2009	40,187
2010	28,118
2011	40,625
2012	29,623
2013	46,766
2014	33,564
TOTALS	451,152

Monthly Discharge Volumes 2014

Month	Volume (gallons)
Jan	5,046
Feb	0
Mar	6,682
Apr	6,275
May	7,607
Jun	4,910
Jul	0
Aug	3,044
Sep	0
Oct	0
Nov	0
Dec	0
Total	33,564

Table 2 **Annual Manhole B Sampling**

CHARLES GIBSON SITE NIAGARA FALLS, NEW YORK

ANALYTICAL RESULTS SUMMARY ANNUAL LEACHATE SAMPLING

September 18, 2014

	MANHOLE B (MHB)
PARAMETER	
alpha-BHC	0.050U
beta-BHC	0.050U
delta-BHC	0.053J
gamma-BHC	0.050U
Hexachlorobenzene	NR

Notes:

U

Undetected

J

Estimated value

Not Required

NR

Concentration in ug/l

Field blank was non-detect for all parameters of interest. Data has been validated and judged acceptable as qualified.

Next hexachlorobenzene (HCB) sampling scheduled for Fall 2015

Niagara Falls, New York TABLE 3 Charles Gibson Site

ANALYTICAL SUMMARY

Annual Cayuga Creek Sediment Sampling 2004 - 2014

UPSTREAM

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Parameter	September										
Alpha- BHC	800/863	23J	13	40	77	240	94	2007	17	1707	120
Beta- BHC	20J/190	36	34	4.8	69	260	97	120J	48	1907	280
Gamma- BHC	233/563	15J	13	4.6	17.1	18J	33J	1900	5.5U	28U	490
Delta- BHC	80U/38J	26U	3.9J	3.7	26U	391	52J	1407	23	28U	490

DOWNSTREAM

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Parameter	September										
Alpha- BHC	800/863	23J	8.3	NS	5200	210	53J	230J	9.8	29U	55
Beta- BHC	20J/190	36	22	NS	1000	73	62J	130J	37	89	100
Gamma- BHC	233/563	15J	7	NS	66J	009	630	220U	5.9U	29U	52U
Delta- BHC	800/38	26U	3.7J	NS	82J	32	56J	170J	18	29U	52U

Notes:

Concentration in microgram per kilogram (ug/kg)

- Not Detected Estimated value No sample in trap

Table 4

2014 Quarterly Groundwater Elevations Summary

Piezometer Pair	3/18/2014	Inward gradient	5/09/2014	Inward	9/18/2014	Inward gradient	12/08/2014	Inward gradient
P1 outside P2 inside	565.34 565.49	Outward	565.50 565.50	Even	565.54 566.88	Outward	566.65 565.08	Inward
P3 outside P4 inside	569.24 565.19	Inward	568.44 565.35	Inward	565.37 568.55	Outward	568.15 565.15	Inward
P5 outside P6 inside	569.35	Inward	569.36 567.82	Inward	567.76	Inward	568.14 566.86	Inward
		Below 565 ft msl		Below 565 ft msl		Below 565 ft msl		Below 565 ft msl
Manhole A Manhole B	563.86	Yes	563.83 563.91	Yes	563.27 563.32	Yes	563.50 563.56	Yes

Measurement units are in feet above MSL. Notes:

Piezometers P1, P3, P5 are outside the slurry wall.
Piezometers P2, P4, P6 are located within the containment area.
NA – Not Available
Manhole monitoring:

Maintain water level below 565 feet to prevent hydrostatic pressure buildup under concrete slab.

Pump Manhole B as required to maintain an inward gradient.

ATE: 3/18	M	TIME: 1215			
SPECTOR: C , _	SUNES	COMPANY: S€V	ENSUN		
VEATHER: 40°	SUNHY				
(
IEZOMETER	RISER ELEVATION (INSIDE CASING)	DEPTH TO WATER (FT.)	WATER ELEVATION	COMMENTS	
-1	572.72	7.38	565,34	- 10 PM	
-2	574.89	9.40	565,49		
-3	574.16	4,92	569,24		
-4	576.14	10.95	565,19		
-5	575.05	5.70	269, 35	-	
-6	578.28	10.52	567.76		
IANHOLE A	575.22	11.36	563.86		
MALIOLE			-	**************************************	
MANHOLE B	577.34	13.45	563.89	automatically to the Tow	n of
MANHOLE B Note: Manhole A en liagara Tuscarora F n Manhole B (and by vater distance from Note: riser elevation	577.34 npties into Manhole B by Road sanitary sewer line	y gravity feed and Manie by a float controlled subelow an elevation of the less than 12.41 ber, 1999 by Wendel S	hole B is pumped ump pump which refer to a the street of t	automatically to the Tow naintains groundwater e n sea level. Therefore, I and 10.22 ft. at Manhole	evations Depth to
ANHOLE B Note: Manhole A en iagara Tuscarora F Manhole B (and by ater distance from Note: riser elevation	577.34 Inpties into Manhole B by Road sanitary sewer line y extension Manhole A) the manhole rim should is (re)surveyed Septem	y gravity feed and Manie by a float controlled subelow an elevation of the less than 12.41 ber, 1999 by Wendel S	hole B is pumped ump pump which refer to a the street of t	naintains groundwater e n sea level. Therefore, I	evations Depth to
ANHOLE B Note: Manhole A en iagara Tuscarora F Manhole B (and by ater distance from Note: riser elevation	577.34 Inpties into Manhole B by Road sanitary sewer line y extension Manhole A) the manhole rim should is (re)surveyed Septem	y gravity feed and Manie by a float controlled subelow an elevation of the less than 12.41 ber, 1999 by Wendel S	hole B is pumped ump pump which refer to a the street of t	naintains groundwater e n sea level. Therefore, I	evations Depth to