

Mr. Payson Long
New York State Department of Environmental Conservation (NYSDEC)
Division of Environmental Remediation
Bureau of Program Management
625 Broadway, 12th Floor
Albany, NY 12233-7012

Arcadis of New York, Inc. 855 Route 146 Suite 210 Clifton Park New York 12065 Tel 518 250 7300 Fax 518 371 2757 www.arcadis.com

Subject

October 2021 Monthly Report Fort Edward Landfill NYSDEC Site No. 558001 Contract No. D009804-7

Date:

November 15, 2021

Contact:

Andy Vitolins, P.G.

Dear Mr. Long:

Arcadis of New York, Inc. (Arcadis) has prepared this letter report to summarize the leachate collection and treatment system operation, maintenance, and monitoring (OM&M) activities completed during the October 2021 reporting period at the above-referenced site.

Phone:

518.250.7300

Email:

andy.vitolins@arcadis.com

Our ref: 30055713

# LEACHATE COLLECTION AND TREATMENT SYSTEM OPERATION AND MAINTENANCE

#### **System Performance**

A total of 481,975 gallons of leachate were collected and treated through the system during October 2021. The monthly average total leachate recovery rate for leachate extraction wells EW-2, EW-3, and leachate collection well EW-4 was approximately 10.8 gallons per minute (gpm).

#### **System Operation Summary**

During each site visit, Arcadis personnel completed a NYSDEC Daily Inspection Report (Attachment A) to summarize site conditions and work performed. An Arcadis Weekly O&M Log (Attachment B) was completed to record system readings and document system performance.

NYSDEC Site No. 558001 Mr. Payson Long November 15, 2021

The following activities were completed during the October 2021 operating period:

- Iron and solids sludge processing was performed throughout the month. One 55-gallon drum of Filter Press Filter sludge was generated during October 2021.
- Completed confined space entry within leachate collection well EW-4 secondary manhole and
  pressure washed/lanced all piping. Pressure washing/lancing resulted in removal of leachate scaling
  blockage and thus higher flow rates at low pressures.
- Removed, cleaned, and reinstalled old sump pump check valve after cleaning sump of excess sediment and sludge.
- On October 12, 2021, hydraulic fluid was discovered leaking from the Filter Press. It was estimated
  that approximately less than ten ounces of hydraulic fluid had leaked immediately below the Filter
  Press and did not discharge to any drains. The hydraulic fluid leak was cleaned promptly, and the
  Filter Press was repaired.
- · Completed annual landfill inspection.
- Collected routine monthly treatment system samples.

Additional details of activities completed in October 2021 are provided in Appendix A.

#### SYSTEM SAMPLING

Monthly water samples were collected by Arcadis on October 19, 2021 from the following treatment system locations:

- Influent (i.e., combined flow from extraction wells EW-1, EW-2, EW-3, and EW-4);
- Clarifier Catch Tank discharge;
- Cell 3 Bypass (i.e., treatment Cell 3 discharge into the Cell 2/3 bypass pipe);
- Cell 2 Effluent (i.e., treatment Cell 2 discharge into the effluent collection chamber); and
- Polishing Pond Effluent (PPE).

No samples were collected from extraction wells EW-1, EW-2, EW-3, leachate collection well EW-4, or Cell 1 Chamber (treatment Cell 1 discharge into the effluent collection chamber). Samples from these locations are collected on a quarterly basis and will be sampled again in the fourth quarter 2021.

The monthly samples were submitted to Eurofins TestAmerica for analysis of Volatile Organic Compounds (VOCs), polychlorinated biphenyls (PCBs), metals, total dissolved solids (TDS), total suspended solids (TSS), and total organic carbon (TOC).

The analytical results are discussed in the sections below and have been summarized in Table 1. The laboratory analytical data will be submitted to NYSDEC's EIMS Administrator in the required EQuIS EDD format.

#### **System Analytical Results**

During the October 2021 sampling event, there were no Fort Edward State Pollutant Discharge Elimination System (SPDES) Equivalency Permit Limit exceedances at the Polishing Pond Effluent for VOCs and conventional chemistry. Iron exceeded the Fort Edward SPDES Permit Limit at the Polishing Pond Effluent sampling location. Additional details of the system analytical results are provided below.

#### **VOCs**

As shown in Table 1, VOCs were detected during the October 2021 sampling event from the Clarifier Catch Tank, Cell 3 Bypass, and Polishing Pond Effluent. Acetone was detected in the Polishing Pond Effluent sample at an estimated concentration of 3.6 micrograms per liter ( $\mu$ g/L) but did not exceed the Fort Edward SPDES Equivalency Permit Limit.

#### **PCBs**

PCB Aroclor 1232 was detected in the Influent (1.9  $\mu$ g/L), Clarifier Catch Tank (2.0  $\mu$ g/L), Cell 3 Bypass (0.89  $\mu$ g/L), and Cell 2 Effluent (0.25  $\mu$ g/L estimated) samples during the October 2021 sampling event. The Fort Edward SPDES Equivalency Permit does not include a limit for PCBs. There were no PCBs detected in the PPE sample during the October 2021 sampling event.

#### **Metals**

Iron concentrations ranged from a maximum of 19.4 milligrams per liter (mg/L) (Influent) to a minimum of 4.57 mg/L (Clarifier Catch Tank). The PPE iron concentration of 5.59 mg/L exceeded the Fort Edward SPDES Equivalency Permit Limit of 0.3 mg/L. There were no other metal concentrations which exceeded the Fort Edward SPDES Equivalency Permit Limits in October 2021. Additional metal concentrations are shown on Table 1.

#### **Conventional Chemistry**

As shown on Table 1, total organic carbon concentrations ranged from 3.5 mg/L (Clarifier Catch Tank) to 19.1 mg/L (Cell 2 Effluent). TDS concentrations ranged from 99 mg/L (Influent) to 656 mg/L (Clarifier Catch Tank), and TSS concentrations ranged from 5.6 mg/L (Cell 2 Effluent) to 65.6 mg/L (Influent). These data are consistent with the results from previous sampling events. Since September 2016, TDS and TSS have ranged from 210 to 4,900 mg/L and non-detect to 274 mg/L, respectively.

#### **NEXT REPORTING PERIOD PLANNED ACTIVITIES**

The following activities are anticipated for November 2021:

- Continuation of iron and solids treatment and processing; and
- · Routine monthly and quarterly treatment system sampling.

If you have any questions, please do not hesitate to contact me or Jeremy Wyckoff.

Sincerely,

Arcadis of New York, Inc.

Vice President

NYSDEC Site No. 558001 Mr. Payson Long November 15, 2021

Copies:

Jeffrey Dyber, NYSDEC Jeremy Wyckoff, P.G., Arcadis Jasmine Mullins, E.I.T., Arcadis Todd Carignan, Arcadis File

Enclosures:

Attachment A - NYSDEC Daily Inspection Reports

**Attachment B** – Arcadis Weekly O&M Logs

Table 1 – October 2021 Treatment System Analytical Data

arcadis.com

# ATTACHMENT A NYSDEC Daily Inspection Reports

Report No. 59 Fort Edward Landfill - NYSDEC Site No. 558001

NYSDEC
Division of Environmental Remediation

NEW YORK
STATE Environmental Conservation



# NYSDEC Contract No. D009804

Superintendent:

NYSDEC PM: Payson Long

Consultant PM: Andy Vitolins, P.G.

Date: 10/05/2021

Consultant Site Inspectors: Colby Churchill, Jasmine Mullins

Site Location: Hudson Falls, New York

Weather Conditions					
<b>General Description</b>	Overcast	AM	Overcast	PM	
Temperature	58 °F	AM	61 °F	PM	
Wind	3 MPH NE	AM	0 MPH	PM	

#### **Health & Safety**

If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

/ 1			
Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

#### **Health & Safety Comments**

None at this time.

 Summary of Work Performed
 Arrived at site:
 0800
 Departed Site:
 1905

- Removed and replaced EW-4 pump end with new pump end.
- Removed EW-4 flow meter and partially dislodged blockage within flow meter inlet piping.
- Cleaned Clarifier Catch Tank (CCT).
- Pumped down Air Compressor (AC) auto drain reservoir.
- Completed Filter Press blowdown and cake discharge.
- Began Filter Press prefill.
- Performed routine housekeeping within Treatment System building.

## **Equipment/Material Tracking**

If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA	
Were there any vehicles which were not tarped?	* Yes	No	NA	X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA	Χ

#### **Personnel and Equipment**

Individual	Company	Trade	Total Hours
Colby Churchill	Arcadis	Jr. Engineer	11.1
Jasmine Mullins	Arcadis	Engineer	11.1

Equipment Description	Contractor/Vendor	Quantity	Used

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
	to one					(10113)

\*On-Site scale for off-site shipment, delivery ticket for material received

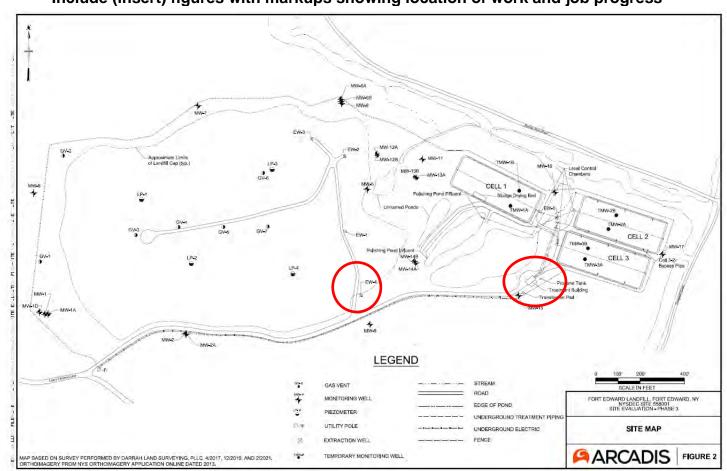
## **Equipment/Material Tracking Comments:**

None at this time.

Fort Edward Landfill - NYSDEC Site No. 558001\_\_\_ Date: \_10/05/2021\_

Visitors to Site					
Name	Re	presenting	Entered Exclusion/CRZ Zo		
			Yes	No	
			Yes	No	
			Yes	No	
			Yes	No	
Site Representatives			<u>.</u>	<u> </u>	
Name		Representing	 ng		
Project Schedule Comments					
None at this time.					
Issues Pending					
None at this time.					
Interaction with Public, Property C	)wners, Media, et	C.			
None at this time.					

## Include (insert) figures with markups showing location of work and job progress



Red outlined area indicates the location of work performed on October 5, 2021.



## Report No. 59 Fort Edward Landfill - NYSDEC Site No. 558001 \_\_ \_ Date: \_10/05/2021\_

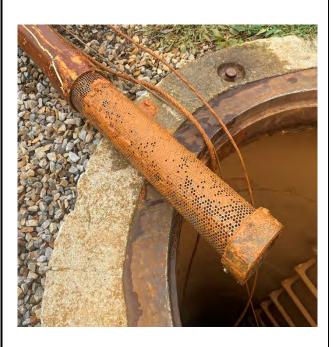
## **Site Photographs (Descriptions Below)**





View of Inclined Plate Clarifier (IPC) mixing chambers.

View of EW-4 high pressure and low flow indicating piping blockage.



View of EW-4 pump screen after one week of use.

#### **Comments**

None at this time.

Site Inspector(s): Colby Churchill, Jasmine Mullins



## **DAILY INSPECTION REPORT**

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Report No. 59 Fort Edward Landfill - NYSDEC Site No. 558001 \_\_ \_ Date: \_10/05/2021\_\_

## DAILY HEALTH CHECKLIST

		T
Is social distancing being practiced?	Yes ⊠	No □
Is the tail gate safety meeting held outdoors?	Yes ⊠	No □
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ⊠	No □
Were personal protective gloves, masks, and eye protection being used?	Yes ⊠	No □
Are sanitizing wipes, wash stations or spray available?	Yes ⊠	No □
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes □	No ⊠
Comments: None at this time.		

## REMEDIAL ACTIVITIES AT PROPERTIES

1.	Have anyone at this location been tested and confirmed to have COVID-19?	Yes □	No ⊠
2.	Is anyone at this location isolated or quarantined for COVID-19?	Yes □	No ⊠
3.	Has anyone at this location had contact with anyone known to have COVID-19 in the past 14 days?	Yes □	No ⊠
4.	Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes □	No ⊠
5.	Does the Department and its contractors have your permission to enter the property at this time?	Yes □	No ⊠
If \	es to any of 1-4 above:		
•	If it is <u>not</u> critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry.	Yes □	No □
•	If it <u>is</u> critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.		
	mments:		
No	one at this time.		

## **NUISANCE CHECKLIST**

Were there any community complaints related to work on this date?	Yes □	No ⊠	N/A□
Were there any odors detected on this date?	Yes □	No ⊠	N/A□
Was noise outside specification and/or above background on this date?	Yes □	No ⊠	N/A□
Were vibration readings outside specification and/or above background on this date?	Yes □	No □	N/A⊠
Any visible dust observed beyond the work perimeter on this date?	Yes □	No ⊠	N/A□
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes □	No □	N/A⊠
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes □	No □	N/A⊠
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes □	No ⊠	N/A□
If yes, has Contractor been notified?	Yes □	No □	N/A⊠
Comments: None at this time.			

Report No. 60 Fort Edward Landfill - NYSDEC Site No. 558001

**NYSDEC** 

Division of Environmental Remediation





# NYSDEC Contract No. D009804

Superintendent:

NYSDEC PM: Payson Long

Consultant PM: Andy Vitolins, P.G.

Date: 10/12/2021

Consultant Site Inspectors: Colby Churchill, Jasmine Mullins, Jeremy

Wyckoff

Site Location: Hudson Falls, New York

Weather Conditions				
General Description Cloudy AM Sunny I				PM
Temperature	52 °F	AM	72 °F	PM
Wind	0 MPH	AM	5 MPH SSE	PM

## **Health & Safety**

If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

#### **Health & Safety Comments**

None at this time.

Summary of Work PerformedArrived at site:0800Departed Site:1915

- Inspected and repaired Filter Press due to leaking hydraulic fluid.
- Removed faulty pressure switch on air compressor and replaced with new pressure switch.
- Completed confined space entry within EW-4 secondary manhole and pressure washed/lanced all piping to remove leachate scaling blockage.
- Batched sludge from Inclined Plate Clarifier (IPC) to Thickener Tank.
- Completed Filter Press onstream process.
- Removed, cleaned, and reinstalled old sump pump check valve after cleaning sump of excess sediment and sludge.
- Tested EW-5 force main gate valves and determined flow rates through bypass piping.
- Performed routine housekeeping within the Treatment System building.

## **Equipment/Material Tracking**

If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?		No X	NA
Were there any vehicles which were not tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

#### Personnel and Equipment

Individual	Company	Trade	Total Hours
Colby Churchill	Arcadis	Jr. Engineer	11.3
Jasmine Mullins	Arcadis	Engineer	11.3
Jeremy Wyckoff	Arcadis	Geologist	11.3

<b>Equipment Description</b>	Contractor/Vendor	Quantity	Used

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*

\*On-Site scale for off-site shipment, delivery ticket for material received

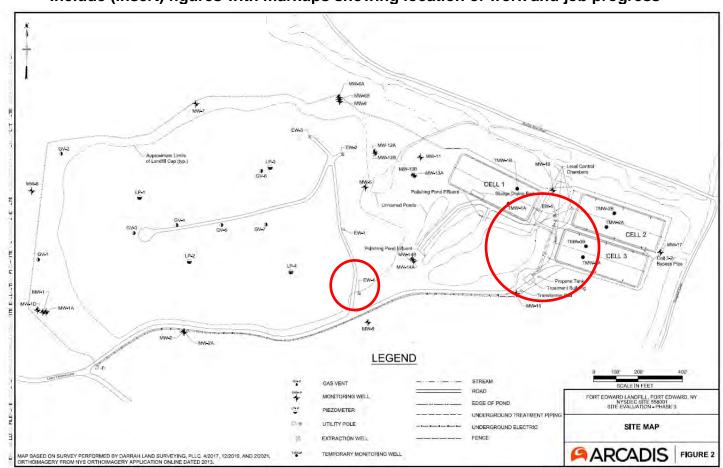
**Equipment/Material Tracking Comments:** 

None at this time.

Date: \_10/12/2021\_

Visitors to Site					
Name	Re	presenting	Entered	Exclusion/CRZ Zone	
			Yes	No	
			Yes	No	
			Yes	No	
			Yes	No	
Site Representatives			<u>.</u>	<u> </u>	
Name	Representing				
Project Schedule Comments					
None at this time.					
Issues Pending					
None at this time.					
Interaction with Public, Property C	)wners, Media, et	C.			
None at this time.					

## Include (insert) figures with markups showing location of work and job progress



Red outlined area indicates the location of work performed on October 12, 2021.





## **Site Photographs (Descriptions Below)**



View of Filter Press hydraulic leak prior to repairs.



View of scaling within EW-4 secondary manhole piping.



View of Old Sump after cleaning.

## Comments

None at this time.

Site Inspector(s): Colby Churchill, Jasmine Mullins, Jeremy Wyckoff Date: 10/12/2021



## **DAILY INSPECTION REPORT**

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Report No. 60 Fort Edward Landfill - NYSDEC Site No. 558001 \_\_ \_ Date: \_10/12/2021\_\_

## DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes ⊠	No □
Is the tail gate safety meeting held outdoors?	Yes ⊠	No □
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ⊠	No □
Were personal protective gloves, masks, and eye protection being used?	Yes ⊠	No □
Are sanitizing wipes, wash stations or spray available?	Yes ⊠	No □
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes □	No ⊠
Comments: None at this time.		•

## REMEDIAL ACTIVITIES AT PROPERTIES

1.	Have anyone at this location been tested and confirmed to have COVID-19?	Yes □	No ⊠
2.	Is anyone at this location isolated or quarantined for COVID-19?	Yes □	No ⊠
3.	Has anyone at this location had contact with anyone known to have COVID-19 in the past 14 days?	Yes □	No ⊠
4.	Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes □	No ⊠
5.	Does the Department and its contractors have your permission to enter the property at this time?	Yes □	No ⊠
If \	Yes to <u>any</u> of 1-4 above:		
•	If it is <u>not</u> critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry.	Yes □	No □
•	If it is critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.		
	omments:		
No	one at this time.		

## **NUISANCE CHECKLIST**

Were there any community complaints related to work on this date?	Yes □	No ⊠	N/A□
Were there any odors detected on this date?	Yes □	No ⊠	N/A□
Was noise outside specification and/or above background on this date?	Yes □	No ⊠	N/A□
Were vibration readings outside specification and/or above background on this date?	Yes □	No □	N/A⊠
Any visible dust observed beyond the work perimeter on this date?	Yes □	No ⊠	N/A□
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes □	No □	N/A⊠
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes □	No □	N/A⊠
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes □	No ⊠	N/A□
If yes, has Contractor been notified?	Yes □	No □	N/A⊠
Comments: None at this time.			



Report No. 61 Fort Edward Landfill - NYSDEC Site No. 558001

NYSDEC
Division of Environmental Remediation

NEW YORK
TOTAL

Department of Environmental Conservation



NYSDEC Contract No. D009804

Site Location: Hudson Falls, New York

 Weather Conditions

 General Description
 Sunny
 AM
 Sunny
 PM

 Temperature
 39 °F
 AM
 60 °F
 PM

 Wind
 4 MPH SW
 AM
 14 MPH W
 PM

Superintendent:

NYSDEC PM: Payson Long

Consultant PM: Andy Vitolins, P.G.

Date: 10/19/2021

Consultant Site Inspectors:

Jasmine Mullins

If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

#### **Health & Safety Comments**

None at this time.

Summary of Work Performed Arrived at site: 0810 Departed Site: 1845

- Collected monthly Treatment System samples.
- Completed Filter Press blowdown, cake discharge, and prefill processes.
- Filled and closed one 55-gallon drum of Filter Press Filter Sludge.
- Completed annual landfill inspection.
- Batched sludge from Inclined Plate Clarifier (IPC) to Thickener Tank.
- Replaced bleach pump transfer tubing.
- Performed routine housekeeping within the Treatment System building.

## **Equipment/Material Tracking**

If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA	
Were there any vehicles which were not tarped?	* Yes	No	NA	Х
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA	Χ

#### **Personnel and Equipment**

Individual	Company	Trade	Total Hours
Jasmine Mullins	Arcadis	Engineer	10.6
Equipment Description	Contractor/Vendor		ity Used
	,		

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
		T				

\*On-Site scale for off-site shipment, delivery ticket for material received

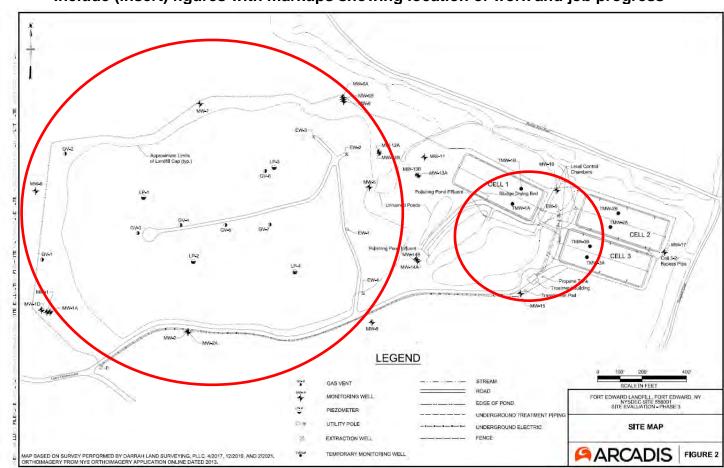
#### **Equipment/Material Tracking Comments:**

None at this time.

\_\_Date: \_\_10/19/2021\_\_

Visitors to Site				
Name	Re	Representing		Exclusion/CRZ Zone
			Yes	No
Site Representatives	·		<u>.</u>	<u> </u>
Name	Representing			
Project Schedule Comments		!		
None at this time.				
Issues Pending				
None at this time.				
Interaction with Public, Property C	)wners, Media, e	tc.		
None at this time.				

## Include (insert) figures with markups showing location of work and job progress



Red outlined area indicates the location of work performed on October 19, 2021.



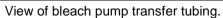
Report No. 61 Fort Edward Landfill - NYSDEC Site No. 558001 \_\_\_ Date: \_10/19/2021\_

## **Site Photographs (Descriptions Below)**





View of Polishing Pond Effluent dock.







View of ponding water in Southern mid-cap swale.

View of landfill drain pouring into Southern mid-cap swale.

## Comments

None at this time.

Site Inspector(s): Jasmine Mullins Date: 10/19/2021



## **DAILY INSPECTION REPORT**

Page 4 of 4

Report No. 61 Fort Edward Landfill - NYSDEC Site No. 558001 \_\_ \_ Date: \_10/19/2021\_

## DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes ⊠	No □
Is the tail gate safety meeting held outdoors?	Yes ⊠	No □
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ⊠	No □
Were personal protective gloves, masks, and eye protection being used?	Yes ⊠	No □
Are sanitizing wipes, wash stations or spray available?	Yes ⊠	No □
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes □	No ⊠
Comments: None at this time.		

## REMEDIAL ACTIVITIES AT PROPERTIES

1 4	11	–	A
1.	Have anyone at this location been tested and confirmed to have COVID-19?	Yes □	No ⊠
2.	Is anyone at this location isolated or quarantined for COVID-19?	Yes □	No ⊠
3.	Has anyone at this location had contact with anyone known to have COVID-19 in the past 14 days?	Yes □	No ⊠
4.	Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes □	No ⊠
5.	Does the Department and its contractors have your permission to enter the property at this time?	Yes □	No ⊠
If \	es to any of 1-4 above:		
•	If it is <u>not</u> critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry.	Yes □	No □
•	If it <u>is</u> critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.		
	mments:		•
No	ne at this time.		

## **NUISANCE CHECKLIST**

Were there any community complaints related to work on this date?	Yes □	No ⊠	N/A□
Were there any odors detected on this date?	Yes □	No ⊠	N/A□
Was noise outside specification and/or above background on this date?	Yes □	No ⊠	N/A□
Were vibration readings outside specification and/or above background on this date?	Yes □	No □	N/A⊠
Any visible dust observed beyond the work perimeter on this date?	Yes □	No ⊠	N/A□
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes □	No □	N/A⊠
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes □	No □	N/A⊠
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes □	No ⊠	N/A□
If yes, has Contractor been notified?	Yes □	No □	N/A⊠
Comments: None at this time.			

Report No. 62 Fort Edward Landfill - NYSDEC Site No. 558001

NYSDEC
Division of Environmental Remediation





# NYSDEC Contract No. D009804

Superintendent:

NYSDEC PM: Payson Long

Consultant PM: Andy Vitolins, P.G.

Date: 10/26/2021

Consultant Site Inspectors: Colby

Churchill

Site Location: Hudson Falls, New York

Weather Conditions							
General Description Rain AM		Rain	PM				
Temperature	39 °F	AM	52 °F	PM			
Wind	10 MPH NNE	AM	14 MPH NNE	PM			

## **Health & Safety**

If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

## **Health & Safety Comments**

None at this time.

Summary of Work Performed Arrived at site: 0815 Departed Site: 1715

- Completed winterization inspection of unit heaters within the Treatment System building.
- Batched sludge from Inclined Plate Clarifier (IPC) to Thickener Tank repeatedly.
- Completed Filter Press onstream, blowdown, cake discharge, and prefill processes.
- Performed chemical inspection and routine housekeeping within the Treatment System building.

## **Equipment/Material Tracking**

If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

#### **Personnel and Equipment**

individual	Company			lotal Hours
Colby Churchill	Arcadis Jr. Engineer			9.0
<b>Equipment Description</b>	Contractor/Vend	dor	Quantity	Used

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*

\*On-Site scale for off-site shipment, delivery ticket for material received

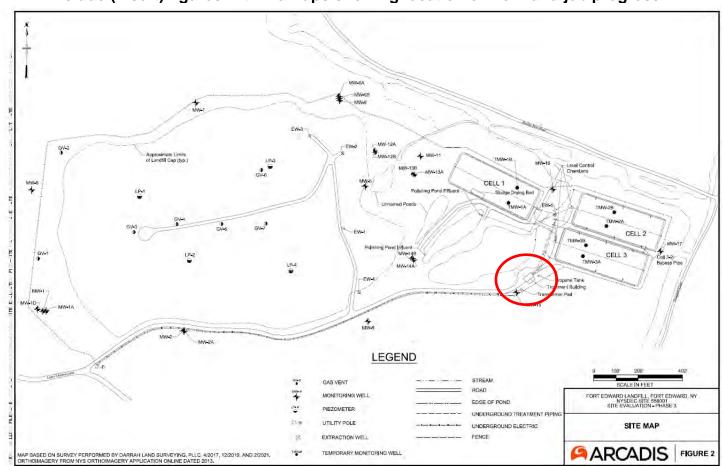
**Equipment/Material Tracking Comments:** 

None at this time.

Date: \_10/26/2021\_

Visitors to Site				
Name	Re	presenting	Entered Exclusion/CRZ	
			Yes	No
Site Representatives			•	
Name	Representing			
Project Schedule Comments		<del>'</del>		
None at this time.				
Issues Pending				
None at this time.				
Interaction with Public, Property Ov	wners, Media, e	tc.		
None at this time.				

## Include (insert) figures with markups showing location of work and job progress



Red outlined area indicates the location of work performed on October 26, 2021.





## **Site Photographs (Descriptions Below)**





View of Filter Press sludge following cake discharge.

View of IPC plates prior to spray down.



View of IPC discharge ports.

## **Comments**

None at this time.

Site Inspector(s): Colby Churchill

Date: 10/26/2021



## **DAILY INSPECTION REPORT**

Page 4 of 4

Report No. 62 Fort Edward Landfill - NYSDEC Site No. 558001 \_\_ \_ Date: \_10/26/2021\_

## DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes ⊠	No □
Is the tail gate safety meeting held outdoors?	Yes ⊠	No □
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ⊠	No □
Were personal protective gloves, masks, and eye protection being used?	Yes ⊠	No □
Are sanitizing wipes, wash stations or spray available?	Yes ⊠	No □
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes □	No ⊠
Comments: None at this time.		

## REMEDIAL ACTIVITIES AT PROPERTIES

1 4	11	–	A
1.	Have anyone at this location been tested and confirmed to have COVID-19?	Yes □	No ⊠
2.	Is anyone at this location isolated or quarantined for COVID-19?	Yes □	No ⊠
3.	Has anyone at this location had contact with anyone known to have COVID-19 in the past 14 days?	Yes □	No ⊠
4.	Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes □	No ⊠
5.	Does the Department and its contractors have your permission to enter the property at this time?	Yes □	No ⊠
If \	es to any of 1-4 above:		
•	If it is <u>not</u> critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry.	Yes □	No □
•	If it <u>is</u> critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.		
	mments:		•
No	ne at this time.		

## **NUISANCE CHECKLIST**

Were there any community complaints related to work on this date?	Yes □	No ⊠	N/A□
Were there any odors detected on this date?	Yes □	No ⊠	N/A□
Was noise outside specification and/or above background on this date?	Yes □	No ⊠	N/A□
Were vibration readings outside specification and/or above background on this date?	Yes □	No □	N/A⊠
Any visible dust observed beyond the work perimeter on this date?	Yes □	No ⊠	N/A□
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes □	No □	N/A⊠
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes □	No □	N/A⊠
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes □	No ⊠	N/A□
If yes, has Contractor been notified?	Yes □	No □	N/A⊠
Comments: None at this time.			

# **ATTACHMENT B**

Arcadis Weekly O&M Logs

## Fort Edward Landfill - Weekly Operation and Maintenance Checklist

Staff: JM + CC . Date: 10/5/2/



Check status and compare to normal conditions. See Reverse side for typical operating parameters.

HMI SCREENS							~	
Extraction Wells		77.00	Online (Y/N)	Auto	Manual	Flow (gpm)	Level (ft)	(psi)
Pump Status/Flow		EW-1	11	-	_	_	13.91	0.0
Run pumps in "Manual" to confirm flow, if ne	eded.	EW-2	4	Y	N	21.68	7.72	€.80
Confirm pumps are operating between setpo		EW-3	- A	N	- N	11.03	9.69	NA
Confirm pressure with pump cycling & not high		EW-4	- <del>V</del>	Y	- 1	13.12		42.06
If pumps on, is water flowing into IPC (Y/N)?		EW-5	V	V	- <del>-1/2</del>	NA NA	9.07	NA NA
Process - (Check if OK or fill in values)	-		-	-				
Chlorine Alarm status (on/off) A1	11.	A2			Auto rotate o	n/off		-
If on - record chlorine concentration (ppm)	No	AZ	N:					on
[발생이다] [10] 전시민은 시마 [10] [10] 전시민은 사람들이 되었다. [10] [10] [10] [10] [10] [10] [10] [10]						ump operating		_
Operate exhaust fan manually	-					imp pressure	normal	
FT-801 reading (GPM)	10.31				Building tem			62
Chemical rates normal for flow?	V				Mixers opera	iting?		
Catch tank display level=actual?	1				Other Alarms	s (Y/N)		N
Filtration (Check if OK)								
Air compressor pressure in range					Solenoid star	tus correct for	operation	1/
Data (Check if OK)						-		
Do Daily & Yesterday Starts make sense	V							
Alarms								-
All Alarms Enabled (Y/N)	V							
List any disabled and indicate why	143	flow se	new faile	110 00	9/29			
BUILDING/GROUNDS								
Air Compressor (Check if OK)		-						
Cycle times normal for load	V				Check auto	drain operat	ion	1
Check oil level at least monthly	_					er - alarms? C		
Belt tension	. /					erates with co		
Unit Heaters (Check if OK)					rist fair opt	oratoo with oo	inpressor.	
Thermostats set correctly (50-55 F)					Propage to	ink level great	er than 20%	-
Heaters working					r ropane te	ilik level great	er man 2076	
IPC (Y/N)								
IPC discharge clear?	V				Chack slur	ige ports (Slu	dae V/NI)	. /
Floatables? (take photos if yes)	1/10	Ishut	clark					16
Coag visibly dosing?	× //10	13900	10610		Indicate 9	% of sludge	Upper	18-20%
Floc visibly dosing?	Y				at ea	ch port	Mid	100%
	4						Lower	100.1
Chemical Feed (Fill in values) 305 Bleach Height (in)	-11 "	mA Cianal	<i>**</i> .	# - F T. III	Danis Onelle	3		
일이 성급의 경영하게 하는 경영하다 보다.	24.0"	mA Signal	5.3		Drums Onsite	_2		
2130 Coagulant Height (in)	11,5"	Stroke Rate			Drums Onsite			
1668 Flocculant Volume (gal)	770	Stroke Rate	33		Bags Onsite	3		
Dosing pumps at normal rate?	<del></del>			Chemica	ls needed?	None		
Floor Sumps (Y/N)	,				- District	and a Part of the		
Sump levels normal?	<u> </u>		ava.			but not empt		
High-High level switches operate freely?	- 4	(check mor	ithly)		Back flowing	ng after pump	cycle?	_//
Excessive sludge/sediment?	N							
	Thick Feed	Press Feed	Floc Feed					
Proper operation/flow	•	V						
Regulators working properly	-	//						
Exhaust mufflers			_					
Filter Press (Check if OK)								
Hydraulic ram operating normally						Sorbent pads	s replaced?	N
Hydraulic pressure normal	V			- F	low many total	filled Haz dru	ims onsite?	3
Significant leaks?	N			How	many Haz dru	ms filled & clo	sed today?	
General/Housekeeping			San					
Wipe down dirty equipment/piping	1		Any leaks?	N		Waste drun	ns needed?	N
Sweep and/or wash floors	V		ts working?	Y	-		Is needed?	N
Fire extinguisher inspection (monthly)	-		ns working?	V	-		oved trash?	7
Sludge in Clarifier Catch Tank?	N		-		7	1.0011		
Grounds								
Mow/trim around building, structures, wells, t	bollards, co	ntrol panels	and cleanouts	s	Clear woo	dy vegetation	from swales	and cap
Shovel doorways, apply ice melt						amage fencing		4.7
Confirm gates and doorways locked						orage contain		



<b>Extraction Well</b>	Flow (gpm)	Pressure (psi)	Low-Low	Level (off)	Level (on)	High-High
EW-1	20	4.5	2	3	10	20
EW-2	14	11	1	3	10	25
EW-3	20	NA	1	3	10	20
EW-4	30	20	0	7	10	36
EW-5	NA	NA	1	3	10	20
			Low-Low	Level (off)	Level (on)	High-High
Clarifier Catch Tank			0.5	1	2	3.25

#### **Chlorine Alarm**

A1 means chlorine concentration greater than 0.5 ppm

A1 and A2 means concentration greater than 1.0 ppm

If both on, the following will occur: Stop bleach pump, open intake louver, turn on exhaust fan and outside warning light .

<b>Chemical Dosing Rates</b>	HMI Setpoint	Stroke SP	Hand SP	Pump Screen
305 Bleach	0.10%	100	0.16 gph	5.4 - 6.5
2130 Coagulant	0.10%	96	0.16 gph	12.5 - 12.7
1668 Flocculant	0.20%	100	2.47 aph	72 - 75

#### **Discharge Pumps**

Typical speed 30-100% Typical pressure 22 psi @ 100%

#### Air compressor

operating range

90-175 psi

regulator setpoint

90 psi

Auto drain Dryer

On 5 seconds every 5 minutes Display shows "ESA/ON" with dew point level shown on bar scale.

Auto drain operates 5 seconds every minute

Heat exchanger fan should operate with compressor

Regulators

Thickener feed pump Filter press feed pump **PSI** Range 40 psi max 90 psi max 40 psi

Floc feed pump Filter press hyd pump

Blowdown

90 psi max

Notes:	- [	Drained	2.5	991	of water	g fom	Condo	sat	digin
		Pouled	inh	Sump	Br	treatme	+ Cno	sheen 1	digin, loil plesent

# Fort Edward Landfill - Weekly Operation and Maintenance Checklist

Staff: CC + JM + JW Da

Date: 10-12-21



Check status and compare to normal conditions. See Reverse side for typical operating parameters.

HMI SCREENS Extraction Wells				721.7					
Pump Status/Flow	300 64 300 6			Online (Y/N)	Auto	Manual	Flow (gpm)	Level (ft)	(psi)
Run pumps in "Manual" to o	anders for a		EW-1	0#		_	_	14.01	2.08
Confirm pumps are operatir	online now , if	needed.	EW-2	res	Ves	N	21.66	10.63	8.35
Confirm pressure with pump	ig between set	tpoints	EW-3	Xes	Ves	N	18.83	9.98	NA
If pumps on, is water flowing	a into IDC (V/A	nign/low.	EW-4	yes	yes	V	30.70	9.58	6,55
Process - (Check if OK or	g into IPC (Y/N	V)?	_ EW-5	yes	VES	N	NA	8.62	NA
Chloring Alarm status (and	mi in values)	the state of the s							
Chlorine Alarm status (on/o	п) А	1_0+	A2	off		Auto rotate	on/off		On
If on - record chlorine conce	intration (ppm)					Discharge p	ump operating		V
Operate exhaust fan manua	lly	res					ump pressure		V
FT-801 reading (GPM)		42.0	X			Building tem	p accurate		-
Chemical rates normal for fl						Mixers opera			14
Catch tank display level=act	tual?					Other Alarm			-1/
Filtration (Check if OK)			LUBER OF	21 14	S			STREET, STREET,	
Air compressor pressure in Data (Check if OK)	Consideration of the Constant	V				Solenoid sta	tus correct for	operation	
Do Daily & Yesterday Starts	make sense	1							
Alarms	F-120 100	2,111	1000			- C	3 - 3 - 3		
All Alarms Enabled (Y/N)	11000	Y		and the same			9 - 10	-	-
List any disabled and indicate	te why								
BUILDING/GROUNDS	Popular								
Air Compressor (Check if	OK)	ENEW S					10000		-
Cycle times normal for load						Check auto	drain operation	on	
Check oil level at least mont	hly	_				Check drye	er - alarms? Cy	veling?	
Belt tension		~				HX fan ope	erates with con	onressor?	
Unit Heaters (Check if OK)			DE MANAGER	1000000	OF STREET		1700	ipressor:	- THE REAL PROPERTY.
Thermostats set correctly (5	0-55 F)					Propane ta	nk level greate	er than 20%	V 710
Heaters working		V				3.3.5	io roi giodic	" triair 20 /0	105 70%
IPC (Y/N)	7 7/4	19 TO		1831	()(202)(6)	- 0 to - 10		TOTAL STR	
IPC discharge clear?		Y				Check sluc	lge ports (Slud	ge Y/N)	V
Floatables? (take photos if y	es)							Upper	25%
Coag visibly dosing?							of sludge	Mid	100%
Floc visibly dosing?						at eac	ch port	Lower	160%
Chemical Feed (Fill in value	The state of the s		The second	The same	100000		150		(00).
305 Bleach	Height (in)	22.5	mA Signal	8.2	# of Full Dr	ums Onsite	2		
2130 Coagulant	Height (in)	14.5	Stroke Rate	26.4	# of Full Dr	ums Onsite	1		
1668 Flocculant	Volume (gal		Stroke Rate		# of Full Ba		à		
Dosing pumps at normal rate	17	Yes			Chemicals		none		
Floor Sumps (Y/N)	5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1					THE RESERVE		- 13 2	18 50
Sump levels normal?		Ves					but not emptyi		Aca
High-High level switches ope	rate freely?	YCS	(check mont	hly)		Back flowing	g after pump o	ycle?	Char Vos
Excessive sludge/sediment?		No.							4
Diaphragm pumps (Check   Proper operation/flow	TOK)	Thick Feed	Press Feed	Floc Feed			PARTY OF THE PARTY	-Farer a	
Regulators working properly Exhaust mufflers				V					
Filter Press (Check if OK)									
Hydraulic rom operating pos-	- N								1000
Hydraulic ram operating nom Hydraulic pressure normal	ially					London 7	Sorbent pads i	replaced?	N
Significant leaks?			1		Hov	w many total	filled Haz drum	ns onsite?	2
General/Housekeeping		Yes 50	eents		How ma	any Haz drun	ns filled & close	ed today?	0
Wipe down dirty equipment/p	ining.				0		BA COLON		U.S. RET
Sweep and/or wash floors	iping			ny leaks?	titer A	155	Waste drums	needed?	11
Fire extinguisher incoorts	month!			working?	~	120	Drum labels	needed?	A
Fire extinguisher inspection (i Sludge in Clarifier Catch Tanl	nontniy)	1	Exit signs	working?	V			ed trash?	N
Grounds	(1							2.	
	uotuvo	A PERSONAL PROPERTY AND ADDRESS OF THE PARTY A	Section	diam'r.			all and	4000	570-030
Mow/trim around building, stro Shovel doorways, apply ice m	uctures, Wells,	nollards, co	ntrol panels ar	nd cleanouts		Clear wood	vegetation fro	m swales a	nd cap
Confirm gates and doorways						Look for dar	nage fencing/g	gates	
Similing gates and doorways	locked					Confirm stor	rage container	locked	



	Extraction Well	Flow (gpm)	Pressure (psi)	Low-Low	Level (off)	Level (on)	High-High
	EW-1	20	4.5	2	3	10	20
	EW-2	14	11	1	3	10	25
	EW-3	20	NA	1	3	10	20
	EW-4	30	20	0	7	10	36
	EW-5	NA	NA	1	3	10	20
				Low-Low	Level (off)	Level (on)	High-High
(	Clarifier Catch Tank			0.5	1	2	3.25

#### **Chlorine Alarm**

A1 means chlorine concentration greater than 0.5 ppm

A1 and A2 means concentration greater than 1.0 ppm

If both on, the following will occur: Stop bleach pump, open intake louver, turn on exhaust fan and outside warning light .

Chemical Dosing Rates	<b>HMI Setpoint</b>	Stroke SP	Hand SP	Pump Screen
305 Bleach	0.10%	100	0.16 gph	5.4 - 6.5
2130 Coagulant	0.10%	96	0.16 gph	12.5 - 12.7
1668 Flocculant	0.20%	100	2.47 gph	72 - 75

**Discharge Pumps** 

Typical speed 30-100% Typical pressure 22 psi @ 100%

Air compressor

operating range regulator setpoint

90-175 psi 90 psi

Auto drain

On 5 seconds every 5 minutes

Dryer

Display shows "ESA/ON" with dew point level shown on bar scale.

Auto drain operates 5 seconds every minute

Heat exchanger fan should operate with compressor

Regulators

Thickener feed pump Filter press feed pump PSI Range 40 psi max 90 psi max

Floc feed pump

Filter press hyd pump

Blowdown

40 psi

90 psi max

Notes:

	Removed ball check valve removed obstruction
	and leinstalled to fit back flow issue
-	Dirined & cleaned sedinat tran old sump
_	Filter press has small hydralic link Needs
	futher diagnosis,

## Fort Edward Landfill - Weekly Operation and Maintenance Checklist

Staff: 10 19/2021



Check status and compare to normal conditions. See Reverse side for typical operating parameters.

HMI SCREENS			
Extraction Wells		Online	(Y/N) Auto Manual, Flow (gpm) Level (ft) (psi)
Pump Status/Flow		EW-1	NA 14.00 MA
Run pumps in "Manual" to confirm flow , if		EW-2	N 2167 9.35 8.31
Confirm pumps are operating between sets		EW-3	N 19.33 6.51 NA
Confirm pressure with pump cycling & not	high/low	EW-4	N 30.75 9.48 7.60
If pumps on, is water flowing into IPC (Y/N)	)?	EW-5	NA 9.05 NA
Process - (Check if OK or fill in values)			1103
Chlorine Alarm status (on/off) A	086	A2 08	Auto rotate on/off
If on - record chlorine concentration (ppm)	198		Discharge pump operating
Operate exhaust fan manually	-NIA		
FT-801 reading (GPM)	1111 (00		Discharge pump pressure normal
Chemical rates normal for flow?	44.00		Building temp accurate
	1/165		Mixers operating?
Catch tank display level=actual?	yes		Other Alarms (Y/N)
Filtration (Check if OK)	VI.		
Air compressor pressure in range	yes.		Solenoid status correct for operation
Data (Check if OK)			
Do Daily & Yesterday Starts make sense	yes		
Alarms	3, 50		
All Alarms Enabled (Y/N)	Yes		
List any disabled and indicate why	NIA	<u> </u>	
BUILDING/GROUNDS			
Air Compressor (Check if OK)	A.		
Cycle times normal for load	yes_		Check auto drain operation
Check oil level at least monthly			Check dryer - alarms? Cycling?
Belt tension	912		HX fan operates with compressor?
Unit Heaters (Check if OK)			
Thermostats set correctly (50-55 F)			Propane tank level greater than 20%
Heaters working	425		
IPC (Y/N)			
IPC discharge clear?	yes		Check sludge ports (Sludge Y/N)
Floatables? (take photos if yes)	NO		Indicate % of sludge Upper 090
Coag visibly dosing?	Yes		Mid ( - 0/
Floc visibly dosing?	Mas		
			LOWER THE PARTY
Chemical Feed (Fill in values)			
305 Bleach Height (in)	15.0"	mA Signal 8.1	# of Full Drums Onsite
305 Bleach Height (in) 2130 Coagulant Height (in)	11.0"	Stroke Rate 26.	
305 Bleach Height (in) 2130 Coagulant Height (in) 1668 Flocculant Volume (gal	11.0"		# of Full Drums Onsite 2
305 Bleach Height (in) 2130 Coagulant Height (in) 1668 Flocculant Volume (gal Dosing pumps at normal rate?	11.0"	Stroke Rate 26.	# of Full Drums Onsite 2 4 of Full Drums Onsite 1
305 Bleach Height (in) 2130 Coagulant Height (in) 1668 Flocculant Volume (gal Dosing pumps at normal rate? Floor Sumps (Y/N)	11.0"	Stroke Rate 26.	# of Full Drums Onsite # of Full Drums Onsite # of Full Bags Onsite
305 Bleach Height (in) 2130 Coagulant Height (in) 1668 Flocculant Volume (gal Dosing pumps at normal rate? Floor Sumps (Y/N) Sump levels normal?	11.0"	Stroke Rate 26.	# of Full Drums Onsite # of Full Drums Onsite # of Full Bags Onsite Chemicals needed?
305 Bleach Height (in) 2130 Coagulant Height (in) 1668 Flocculant Volume (gal Dosing pumps at normal rate?  Floor Sumps (Y/N) Sump levels normal? High-High level switches operate freely?	11.0"	Stroke Rate 26.	# of Full Drums Onsite # of Full Drums Onsite # of Full Drums Onsite # of Full Bags Onsite Chemicals needed?  Pump runs but not emptying sump?
305 Bleach Height (in) 2130 Coagulant Height (in) 1668 Flocculant Volume (gal Dosing pumps at normal rate?  Floor Sumps (Y/N) Sump levels normal? High-High level switches operate freely? Excessive sludge/sediment?	11.0"	Stroke Rate 26. Stroke Rate (check monthly)	# of Full Drums Onsite # of Full Drums Onsite # of Full Bags Onsite Chemicals needed?
305 Bleach Height (in) 2130 Coagulant Height (in) 1668 Flocculant Volume (gal Dosing pumps at normal rate? Floor Sumps (Y/N) Sump levels normal? High-High level switches operate freely? Excessive sludge/sediment? Diaphragm pumps (Check if OK)	10"	Stroke Rate 26.0 Stroke Rate 15.0 (check monthly)	# of Full Drums Onsite # of Full Drums Onsite # of Full Drums Onsite # of Full Bags Onsite Chemicals needed?  Pump runs but not emptying sump? Back flowing after pump cycle?
305 Bleach Height (in) 2130 Coagulant Height (in) 1668 Flocculant Volume (gal Dosing pumps at normal rate?  Floor Sumps (Y/N) Sump levels normal? High-High level switches operate freely? Excessive sludge/sediment?  Diaphragm pumps (Check if OK) Proper operation/flow	11.0" ) 415 125 125 125 125	Stroke Rate 26. Stroke Rate (check monthly)	# of Full Drums Onsite # of Full Drums Onsite # of Full Drums Onsite # of Full Bags Onsite Chemicals needed?  Pump runs but not emptying sump? Back flowing after pump cycle?
305 Bleach Height (in) 2130 Coagulant Height (in) 1668 Flocculant Volume (gal Dosing pumps at normal rate?  Floor Sumps (Y/N) Sump levels normal? High-High level switches operate freely? Excessive sludge/sediment?  Diaphragm pumps (Check if OK) Proper operation/flow Regulators working properly	U.O" ) 415 Ves Ves Thick Feed	Stroke Rate Stroke Rate (check monthly)  Press Feed Floc Fee	# of Full Drums Onsite # of Full Drums Onsite # of Full Drums Onsite # of Full Bags Onsite Chemicals needed?  Pump runs but not emptying sump? Back flowing after pump cycle?
305 Bleach Height (in) 2130 Coagulant Height (in) 1668 Flocculant Volume (gal Dosing pumps at normal rate?  Floor Sumps (Y/N) Sump levels normal? High-High level switches operate freely? Excessive sludge/sediment?  Diaphragm pumps (Check if OK) Proper operation/flow Regulators working properly Exhaust mufflers	Ves Ves Ves No Thick Feed	Stroke Rate Stroke Rate  (check monthly)  Press Feed  OV  OV  OV	# of Full Drums Onsite # of Full Drums Onsite # of Full Bags Onsite Chemicals needed?  Pump runs but not emptying sump? Back flowing after pump cycle?  NO  ed
305 Bleach Height (in) 2130 Coagulant Height (in) 1668 Flocculant Volume (gal Dosing pumps at normal rate? Floor Sumps (Y/N) Sump levels normal? High-High level switches operate freely? Excessive sludge/sediment? Diaphragm pumps (Check if OK) Proper operation/flow Regulators working properly Exhaust mufflers Filter Press (Check if OK)	Ves Ves Ves Ves Thick Feed OX OX	Stroke Rate Stroke Rate  (check monthly)  Press Feed  OV  OV  OV	# of Full Drums Onsite # of Full Drums Onsite # of Full Bags Onsite Chemicals needed?  Pump runs but not emptying sump? Back flowing after pump cycle?  NO  ed
305 Bleach Height (in) 2130 Coagulant Height (in) 1668 Flocculant Volume (gal Dosing pumps at normal rate? Floor Sumps (Y/N) Sump levels normal? High-High level switches operate freely? Excessive sludge/sediment? Diaphragm pumps (Check if OK) Proper operation/flow Regulators working properly Exhaust mufflers Filter Press (Check if OK) Hydraulic ram operating normally	Ves Ves Ves Ves Ves Ves Ves Ves Ves Ves	Stroke Rate Stroke Rate  (check monthly)  Press Feed  OV  OV  OV	# of Full Drums Onsite # of Full Drums Onsite # of Full Bags Onsite Chemicals needed?  Pump runs but not emptying sump? Back flowing after pump cycle?  NO  ed
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Extraction Well         Flow (gpm)         Pressure           EW-1         20         4.5           EW-2         14         11           EW-3         20         NA           EW-4         30         20           EW-5         NA         NA	2 1 1 0	Level (off) 3 3 7 3 Level (off)	Level (on) 10 10 10 10 10 10 Level (on)	High-High 20 25 20 36 20 High-High 3.25
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#### **Chiorine Alarm**

A1 means chlorine concentration greater than 0.5 ppm

A1 and A2 means concentration greater than 1.0 ppm

If both on, the following will occur: Stop bleach pump, open intake louver, turn on exhaust fan and outside warning light .

305 Bleach 0 2130 Coagulant 0	Setpoint         Stroke SP           .10%         100           .10%         96           .20%         100	Hand SP Pump Screer 0.16 gph 5.4 - 6.5 0.16 gph 12.5 - 12.7 2.47 gph 72 - 75
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Discharge Pumps

30-100% Typical speed 22 psi @ 100% Typical pressure

Air compressor

operating range regulator setpoint 90-175 psi 90 psi

Auto drain

On 5 seconds every 5 minutes

Dryer

Display shows "ESA/ON" with dew point level shown on bar scale.

Auto drain operates 5 seconds every minute

Heat exchanger fan should operate with compressor

Regulators

Thickener feed pump Filter press feed pump 40 psi max 90 psi max

Floc feed pump

40 psi

**PSI Range** 

Filter press hyd pump

Blowdown

90 psi max

-Monthly same	inspection completed today	

## Fort Edward Landfill - Weekly Operation and Maintenance Checklist

Staff: ColbyChurchi'll Date: 10-26-21



Check status and compare to normal conditions. See Reverse side for typical operating parameters.

Pump Status/Flow With pump cycling on Manual* to confirm flow , if needed.  EW-2 Y Y W 19,33 3,97 5,55  Confirm pressure with pump cycling do to highly to with pump cycling do to with pump cycling to with pump cycling to with pump cycling do to with pump cycling	HMI SCREENS					
Pump Status/Flow With Jampus in Manual* to confirm flow, if needed.  EW-2 Y Y V 19.33 3.97.5 5.55  Confirm pumps are operating between setpoints  EW-3 Y Y V 19.33 3.97.6 NA  Solfirm pressure with pump ocining and highly of the Status of the	Extraction Wells		Online (Y/N)	Auto Manual	Flow (gpm) Level (ft)	(psi)
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Check sludge ports (Sludge Y/N)   Indicate % of sludge   Upper   Upp				1000000		
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Stroke Rate   17			Stroke Pote 3.5		1	
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			And the second disputer of the second	Look for d		c-2/
	Confirm gates and doorways locked					



Extraction Well EW-1	Flow (gpm) 20	Pressure (psi) 4.5	Low-Low 2	Level (off) 3	Level (on) 10	High-High 20
EW-2	14	11	1	3	10	25
EW-3	20	NA	1	3	10	20
EW-4	30	20	0	7	10	36
EW-5	NA	NA	1	3	10	20
			Low-Low	Level (off)	Level (on)	High-High
Clarifier Catch Tank	-		0.5	1	2	3.25

#### **Chlorine Alarm**

A1 means chlorine concentration greater than 0.5 ppm

A1 and A2 means concentration greater than 1.0 ppm

If both on, the following will occur: Stop bleach pump, open intake louver, turn on exhaust fan and outside warning light .

Chemical Dosing Rates	HMI Setpoint	Stroke SP	Hand SP	Pump Screen
305 Bleach	0.10%	100	0.16 gph	5.4 - 6.5
2130 Coagulant	0.10%	96	0.16 gph	12.5 - 12.7
1668 Flocculant	0.20%	100	2.47 gph	72 - 75

**Discharge Pumps** 

Typical speed 30-100%
Typical pressure 22 psi @ 100%

Air compressor

operating range regulator setpoint

90-175 psi 90 psi

regulator setpoint Auto drain

On 5 seconds every 5 minutes

Dryer

Display shows "ESA/ON" with dew point level shown on bar scale.

Auto drain operates 5 seconds every minute

Heat exchanger fan should operate with compressor

Regulators

Thickener feed pump Filter press feed pump Floc feed pump PSI Range 40 psi max 90 psi max 40 psi

Filter press hyd pump

Blowdown

90 psi max

Notes:

- New b	transfer	~ )" of	bleach	from	ok
down	next	week			
					-

# **TABLES**



Location	Influent	Clarifier Catch	Cell 3 Bypass	Cell 2 Effluent	Fort Edward SPDES Equivalency	Polishing Pond Effluent
Date	10/19/2021	10/19/2021	10/19/2021	10/19/2021	Permit Limit	10/19/2021
Volatile Organic Compounds (μg/L)						
ACETONE	10 U	3.2 J	10 U	10 U		3.6 J
BENZENE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
BROMODICHLOROMETHANE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
BROMOFORM	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
BROMOMETHANE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
2-BUTANONE (MEK)	10 U	10 U	10 U	10 U		10 U
CARBON DISULFIDE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
CARBON TETRACHLORIDE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
CHLOROBENZENE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
CHLORODIBROMOMETHANE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
CHLOROETHANE	1.0 U	1.0 U	1.0 U	1.0 U	20	1.0 U
CHLOROFORM	1.0 U	0.93 J	1.0 U	1.0 U	150	1.0 U
CHLOROMETHANE	1.0 U	0.6 J	0.67 J	1.0 U		1.0 U
CYCLOHEXANE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
1,2-DIBROMO-3-CHLOROPROPANE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
1,2-DICHLOROBENZENE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
1,3-DICHLOROBENZENE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
1,4-DICHLOROBENZENE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
DICHLOROBROMOMETHANE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
DICHLORODIFLUOROMETHANE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
1,1-DICHLOROETHANE	1.0 U	1.0 U	1.0 U	1.0 U	30	1.0 U
1,2-DICHLOROETHANE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
1,1-DICHLOROETHENE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
CIS-1,2-DICHLOROETHENE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
TRANS-1,2-DICHLOROETHENE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
1,2-DICHLOROETHENE (TOTAL)	1.0 U	1.0 U	1.0 U	1.0 U	30	1.0 U
1,2-DICHLOROPROPANE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
CIS-1,3-DICHLOROPROPENE	1.0 U	1.0 U	1.0 U			1.0 U
,				1.0 U		
TRANS-1,3-DICHLOROPROPENE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
ETHYLBENZENE	1.0 U 5.0 U	1.0 U	1.0 U 5.0 U	1.0 U		1.0 U
2-HEXANONE		5.0 U	1.0 U	5.0 U 1.0 U		5.0 U
ISOPROPYLBENZENE (CUMENE)	1.0 U	1.0 U				1.0 U
METHYL ACETATE	2.5 U	2.5 U	2.5 U	2.5 U		2.5 U
METHYL TERT-BUTYL ETHER (MTBE)	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
METHYL CYCLOHEXANE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
METHYLENE CHLORIDE	1.0 U	1.0 U	1.0 U	1.0 U	50	1.0 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	5.0 U	5.0 U	5.0 U	5.0 U		5.0 U
STYRENE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
1,1,1,2-TETRACHLOROETHANE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
TETRACHLOROETHENE (PCE)	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
TOLUENE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
1,2,4-TRICHLOROBENZENE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
1,1,1-TRICHLOROETHANE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
1,1,2-TRICHLOROETHANE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
TRICHLOROETHENE (TCE)	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
TRICHLOROFLUOROMETHANE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U
VINYL CHLORIDE	1.0 U	1.0 U	1.0 U	1.0 U	50	1.0 U
XYLENES, TOTAL	2.0 U	2.0 U	2.0 U	2.0 U		2.0 U
TOTAL VOCs	ND	4.73	0.67	ND		3.6

## Notes:

Constitutents detected above the Fort Edward State Pollution Discharge Elimination System (SPDES) Equivalency Permit at the Polishing Pond Effluent are highlighted in yellow.

1,2-dichloroethene (total) is the sum of cis-1,2,-dichloroethene and trans-1,2-dichloroethene.

#### **Definitions:**

J - The concentration is an approximate value.

μg/L - micrograms per liter.

ND - Non-detect.

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

<sup>&</sup>quot;--" - Value does not exist for analyte.



Location	Influent	Clarifier Catch	Cell 3 Bypass	Cell 2 Effluent	Fort Edward SPDES Equivalency	Polishing Pond Effluent
Date Control Birth and Control	10/19/2021	10/19/2021	10/19/2021	10/19/2021	Permit Limit	10/19/2021
Polychlorinated Biphenyls (μg/L)						
PCB-1016 (AROCLOR 1016)	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
PCB-1221 (AROCLOR 1221)	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
PCB-1232 (AROCLOR 1232)	1.9	2.0	0.89	0.25 J		0.5 U
PCB-1242 (AROCLOR 1242)	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
PCB-1248 (AROCLOR 1248)	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
PCB-1254 (AROCLOR 1254)	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
PCB-1260 (AROCLOR 1260)	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
PCB-1262 (AROCLOR 1262)	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
PCB-1268 (AROCLOR 1268)	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U
Metals (mg/L)						
ALUMINUM	0.2 U	0.85	0.2 U	0.0972 J		0.104 J
ANTIMONY	0.02 U	0.02 U	0.02 U	0.02 U		0.02 U
ARSENIC	0.015 U	0.015 U	0.015 U	0.015 U	0.15	0.015 U
BARIUM	0.0442	0.035	0.0551	0.513	3.5	0.0495
BERYLLIUM	0.002 U	0.002 U	0.002 U	0.002 U		0.002 U
CADMIUM	0.00083 J	0.002 U	0.002 U	0.002 U	0.001	0.002 U
CALCIUM	73.2	72	101	88.5		84.1
CHROMIUM, TOTAL	0.004 U	0.004 U	0.004 U	0.004 U	0.21	0.004 U
COBALT	0.0023 J	0.0023 J	0.0015 J	0.001 J	0.005	0.0011 J
COPPER	0.01 U	0.0024 J	0.01 U	0.01 U	0.024	0.002 J
IRON	19.4	4.57	5.09	8.19	0.3	5.59
LEAD	0.004 J	0.01 U	0.01 U	0.01 U	0.0032	0.003 J
MAGNESIUM	18.7	18.7	19.5	16.6		17.2
MANGANESE	1.47	1.25	1.33	1.12		1.2
MERCURY	0.0002 U	0.00005 JB	0.0002 U	0.0002 U	0.0008	0.0002 U
NICKEL	0.01 U	0.0055 J	0.0018 J	0.0027 J	0.0096	0.0024 J
POTASSIUM	2.41	2.45	2.93	3.43		2.59
SELENIUM	0.025 U	0.025 U	0.025 U	0.025 U		0.025 U
SILVER	0.006 U	0.006 U	0.006 U	0.006 U		0.006 U
SODIUM	45.7	53.5	48	38		32.1
THALLIUM	0.02 U	0.02 U	0.02 U	0.02 U		0.02 U
VANADIUM	0.005 U	0.005 U	0.005 U	0.0016 J	0.014	0.005 U
ZINC	0.0282 B	0.012 B	0.0044 JB	0.0010 J 0.0027 JB	0.17	0.0042 JB
Conventional Chemistry (mg/L)	0.0202 D	0.012 B	0.00 FF 0D	0.0027 00	3.17	0.00 FZ 0D
TOTAL ORGANIC CARBON	3.6	3.5	10.4	19.1		18
TOTAL DISSOLVED SOLIDS	99	656	473	443	500	404
TOTAL SUSPENDED SOLIDS	65.6	27.6	38	5.6	50	32.4

## Notes:

Constitutents detected above the Fort Edward State Pollution Discharge Elimination System (SPDES) Equivalency Permit at the Polishing Pond Effluent are highlighted in yellow.

"--" - Value does not exist for analyte.

#### **Definitions:**

B - Compound was found in the blank and sample.

J - The concentration is an approximate value.

mg/L - milligrams per liter.

 $\mu$ g/L - micrograms per liter.

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.



## Arcadis of New York, Inc.

855 Route 146

Suite 210

Clifton Park, New York 12065

Tel 518 250 7300

Fax 518 371 2757

www.arcadis.com