ARCADIS Design & Consultancy for natural and built assets

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

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Clifton Park
New York 12065
Tel 518 250 7300
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Subject:
November 2017 Monthly Report
Fort Edward Landfill
NYSDEC Site No. 558001
Contract No. D007618-39

Date:
January 22, 2018

Contact:
Andy Vitolins

Phone:
518.250.7300

Email:
andy.vitolins@arcadis.com

Our ref:
00266434.0000

Dear Mr. Long:

Arcadis CE, 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 November 2017 reporting period.

Leachate Collection and Treatment System Operation and Maintenance

The leachate treatment system shut down on 11 occasions between November 1, 2017 and November 16, 2017 due to discharge pump alarms reported by the program logic controller (PLC). The alarms (first reported in October 2017) indicated that a discharge pump(s) for the clarifier catch tank was being called to run, but the return signal indicating the pump was running, was not being received by the PLC. Field staff attempted repeatedly to identify the cause of the shut-downs; however, since the fault was intermittent, it was difficult to evaluate the issue. Through a process of elimination, the alarms were found to be caused by a faulty PLC input. The PLC interpreted the faulty input as a failure of the discharge pump to run when it was being called to operate. The program logic was changed to ignore the pump input signal and treatment plant operations were restored. Arcadis will evaluate and present options to repair/replace the PLC.

A total of 470,850 gallons of leachate were collected and treated through the system during November 2017. The corresponding average leachate recovery rate for the month was approximately 10.9 gallons per minute (gpm).

The following O&M activities were completed during the November 2017 operating period:

- The pump in leachate collection well EW-4 was cleaned and replaced due to declining flow rates.
- Ice guards were installed on the treatment system building roof to reduce the potential for injuries from falling ice.
- The landfill cap was mowed by NYSDEC Operations.
- The motor starter for the air compressor was replaced after being damaged during the October 23, 2017 power interruption.
- Iron and solids sludge processing was able to be performed after replacement of the air compressor motor starter. In total, three 55-gallon drums of sludge were generated during the remainder of November 2017.
- On November 6, 2017, nine drums of filter sludge were transported for off-site disposal by Veolia Environmental Solutions, Inc. The disposal documents are attached to this report.
- The annual landfill inspection was performed on November 6, 2017. The results of the inspection will be provided to NYSDEC under a separate cover.

System Sampling

The monthly samples were collected on November 27, 2017 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 discharge into the Cell 2/3 bypass pipe);
- Cell 2 Chamber (i.e. treatment cell discharge into the effluent collection chamber); and
- Polishing Pond Effluent.

No samples were collected from extraction wells EW-1, EW-2, EW-3 or leachate collection well EW-4. Samples from these locations are collected on a quarterly basis and will be sampled again in first quarter 2018.

The monthly samples were submitted to Con-Test Analytical for analysis of volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), metals, total dissolved solids (TDS), and total suspended solids (TSS).

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.

Analytical Results

VOCs

As shown in Table 1, VOCs were detected in the Influent, Clarifier Catch Tank, and Cell 3 bypass samples at concentrations that exceeded the corresponding NYSDEC Effluent Limits. The treatment system Influent sample contained cis-1,2-dichloroethene (cDCE) (13 micrograms per liter [µg/L]) and vinyl chloride 14 µg/L. These compounds were also present in the treatment plant discharge (Clarifier Catch). As shown in Table 1, the Clarifier Catch sample concentrations of cDCE and vinyl chloride were 8.9 µg/L

and 8.0 µg/L, respectively. As shown in Table 1, cDCE (5 µg/L), 1,2-dichloroethane (0.74 J µg/L), 1,1,2-trichloroethane (1.1 µg/L), and vinyl chloride (4.2 µg/L) were also detected in the sample collected from the Cell 3 bypass. Table 1 shows that VOCs were detected at estimated concentrations and did not exceed NYSDEC Standards in Cell 2 Effluent sample or the Effluent sample from the Polishing Pond.

PCBs

PCB Aroclor 1232 was detected in the Influent, Clarifier Catch Tank, Cell 3 bypass, and Cell 2 effluent samples at concentrations greater than the respective NYSDEC Effluent Limits. PCBs were not detected in the Polishing Pond Effluent sample during the November 2017 sampling event (Table 1).

Metals

Iron and manganese were detected in all of the treatment system samples at concentrations greater than the corresponding NYSDEC Standards of 0.3 mg/L and 0.6 mg/L, respectively. Iron concentration ranged from a maximum 28 mg/L (Influent) to 1.5 mg/L (Polishing Pond Effluent). This corresponds to a 95 percent reduction in iron through the treatment system. Manganese concentrations ranged from a maximum of 1.8 mg/L (Influent and Clarifier Catch) to 0.85 mg/L (Polishing Pond Effluent).

TDS and TSS

The concentrations of TDS and TSS continue to fluctuate between sampling events. During the November sampling event, TDS concentrations ranged between 470 mg/L and 590 mg/L; TSS concentrations ranged from non-detect and 36 mg/L. These data are consistent with the results from previous sampling events. Since September 2016, TDS and TSS have ranged from 210 to 1,300 mg/L and non-detect to 120 mg/L, respectively.

Next Reporting Period Planned Activities

The following activities are anticipated for December 2017:

- Inspection and high-pressure jetting of leachate collection lines;
- Extraction well EW-4 pump optimization; and
- Continuation of iron and solids treatment and processing;

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

Sincerely,

Arcadis CE, Inc.

Andy Vitolins, P.G.
Associate Vice President

Copies:
Jeremy Wyckoff, Arcadis
File

Enclosures:
Table 1 - November Treatment System Analytical Data
Waste Disposal Documents

Table 1. November Treatment System Analytical Data, Fort Edward Landfill
Fort Edward, New York. NYSDEC Site No. 558001

Chemical Name	NYSDEC Class GA GW Standard	NYSDEC Effluent Limitation	Influent	Clarifier Catch Tank	CELL 3 Bypass	CELL 2 Chamber	Polishing Pond Effluent
			11/27/2017	11/27/2017	11/27/2017	11/27/2017	11/27/2017
Volatile Organic Compounds (ug/L)							
ACETONE	50	50	50 U	50 U	50 U	50 U	50 U
BENZENE	1	1	0.48 J	0.37 J	0.14 J	1.0 U	1.0 U
BROMOCHLOROMETHANE	5	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMODICHLOROMETHANE	50	50	0.5 U	0.5 U	1.0	0.5 U	0.5 U
BROMOFORM	50	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOMETHANE	5	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-BUTANONE (MEK)	50	50	20 U	20 U	20 U	20 U	20 U
CARBON DISULFIDE	60	60	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CARBON TETRACHLORIDE	5	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
CHLOROBENZENE	5	5	0.58 J	0.5 J	1.0 U	1.0 U	1.0 U
CHLORODIBROMOMETHANE	50	--	0.5 U	0.5 U	0.16 J	0.5 U	0.5 U
CHLOROETHANE	5	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
CYCLOHEXANE	--	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-DIBROMO-3-CHLOROPROPANE	0.04	0.04	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.0006	0.0006	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-DICHLOROBENZENE	3	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROBENZENE	3	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROBENZENE	3	3	0.16 J	0.19 J	1.0 U	1.0 U	1.0 U
DICHLORODIFLUOROMETHANE	5	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1-DICHLOROETHANE	5	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,2-DICHLOROETHYLENE	5	5	**13**	**8.9**	**5.0**	1.5	0.17 J
TRANS-1,2-DICHLOROETHYLENE	5	5	0.25 J	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	0.6	0.6	1.0 U	1.0 U	**0.74 J**	1.0 U	1.0 U
1,1-DICHLOROETHYLENE	5	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROPROPANE	1	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,3-DICHLOROPROPENE	0.4	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRANS-1,3-DICHLOROPROPENE	0.4	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-DIOXANE	--	--	50 U	50 U	50 U	50 U	50 U
ETHYLBENZENE	5	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-HEXANONE	50	50	10 U	10 U	10 U	10 U	10 U
ISOPROPYLBENZENE (CUMENE)	5	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
METHYL ACETATE	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
METHYL TERT-BUTYL ETHER (MTBE)	10	10	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	5	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	--	--	10 U	10 U	10 U	10 U	10 U
STYRENE	5	930	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1,2-TETRACHLOROETHANE	5	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TETRACHLOROETHYLENE (PCE)	5	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOLUENE	5	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-TRICHLOROBENZENE	5	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-TRICHLOROBENZENE	5	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-TRICHLOROETHANE	5	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	1	1	1.0 U	1.0 U	**1.1**	1.0 U	1.0 U
TRICHLOROETHYLENE (TCE)	5	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROFLUOROMETHANE	5	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
VINYL CHLORIDE	2	2	**14**	**8.0**	**4.2**	0.39 J	2.0 U
M,P-XYLENES	5	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
O-XYLENE (1,2-DIMETHYLBENZENE)	5	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
XYLENES, TOTAL	5	5	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U

Notes:
Constitutents detected above the NYSDEC Class GA GW Standard are in **bold**.
Constitutents detected above the NYSDEC Class GA GW Effluent Limitation are highlighted in yellow.

Definitions:
NYSDEC Class GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard and Guidance Value.
NYSDEC Class GA GW Effluent Limitation - New York State Department of Environmental Conservation Effluent Limitation.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
J - The concentration is an approximate value.
mg/L - milligrams per liter
ug/L - micrograms per liter
NS - Not Sampled

Table 1. November Treatment System Analytical Data, Fort Edward Landfill
Fort Edward, New York. NYSDEC Site No. 558001

ARCADIS Design & Consultancy for natural and built assets

Chemical Name	NYSDEC Class GA GW Standard	NYSDEC Effluent Limitation	Influent	Clarifier Catch Tank	CELL 3 Bypass	CELL 2 Chamber	Polishing Pond Effluent
			11/27/2017	11/27/2017	11/27/2017	11/27/2017	11/27/2017
Polychlorinated Biphenyls (ug/L)							
PCB-1016 (AROCLOR 1016)	*	*	1.9 U	3.9 U	0.19 U	0.19 U	0.2 U
PCB-1221 (AROCLOR 1221)	*	*	1.9 U	3.9 U	0.19 U	0.19 U	0.2 U
PCB-1232 (AROCLOR 1232)	*	*	**17**	**23**	**0.97**	**0.39**	0.2 U
PCB-1242 (AROCLOR 1242)	*	*	1.9 U	3.9 U	0.19 U	0.19 U	0.2 U
PCB-1248 (AROCLOR 1248)	*	*	1.9 U	3.9 U	0.19 U	0.19 U	0.2 U
PCB-1254 (AROCLOR 1254)	*	*	1.9 U	3.9 U	0.19 U	0.19 U	0.2 U
PCB-1260 (AROCLOR 1260)	*	*	1.9 U	3.9 U	0.19 U	0.19 U	0.2 U
PCB-1262 (AROCLOR 1262)	*	*	1.9 U	3.9 U	0.19 U	0.19 U	0.2 U
PCB-1268 (AROCLOR 1268)	*	*	1.9 U	3.9 U	0.19 U	0.19 U	0.2 U
Metals (mg/L)							
ALUMINUM	--	2	0.05 U	0.39	0.05 U	0.05 U	0.05 U
ANTIMONY	0.003	0.006	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ARSENIC	0.025	0.05	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
BARIUM	1	2	0.068	0.07	0.066	0.062	0.05 U
BERYLLIUM	0.003	0.003	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
CADMIUM	0.005	0.01	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
CALCIUM	--	--	99	100	110	100	99
CHROMIUM, TOTAL	0.05	0.1	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
COBALT	--	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
COPPER	0.2	1	0.01 U	0.013	0.01 U	0.01 U	0.01 U
IRON	0.3	0.6	**28**	**12**	**1.7**	**6.6**	**1.5**
LEAD	0.025	0.05	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
MAGNESIUM	35	35	23	23	24	20	23
MANGANESE	0.3	0.6	**1.8**	**1.8**	**0.61**	**0.92**	**0.85**
MERCURY	0.0007	0.0014	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
NICKEL	0.1	0.2	0.01 U	0.016	0.01 U	0.01 U	0.01 U
POTASSIUM	--	--	4.1	5.1	5.3	2.9	3.1
SELENIUM	0.01	0.02	0.05 U	0.05 U	0.05 U	0.034 U	0.05 U
SILVER	0.05	0.1	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
SODIUM	20	--	**47**	**55**	**63**	**54**	**49**
THALLIUM	0.0005	0.0005	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
VANADIUM	--	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
ZINC	2	5	0.02 U	0.27	0.02 U	0.02 U	0.02 U
Conventional Chemistry (mg/L)							
TOTAL DISSOLVED SOLIDS	--	--	470	540	590	510	520
TOTAL SUSPENDED SOLIDS	--	--	36	11	8	5	5 U

Notes:
Constitutents detected above the NYSDEC Class GA GW Standard are in **bold**.
Constitutents detected above the NYSDEC Effluent Limitation are highlighted in yellow.
* The NYSDEC Class GA GW Standard and Effluent Limitation for PCBs is 0.09 ug/L.

Definitions:
NYSDEC Class GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard and Guidance Value.
NYSDEC Class GA GW Effluent Limitation - New York State Department of Environmental Conservation Effluent Limitation.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
J - The concentration is an approximate value.
mg/L - milligrams per liter
ug/L - micrograms per liter
NS - Not Sampled

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NOT REQ	1	877 818-0083	001121960 VES

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC DEPT OF ENV REMEDIATION
NYSDEC FORT EDWARD LANDFILL
625 BRDWAY
ALBANY, NY 12207-2942
Generator's Phone: 518 250-7308

Generator's Site Address (if different than mailing address)
LEAVY HOLLOW LANE
FORT EDWARD, NY 12829

6. Transporter 1 Company Name
VEOLIA ES TECHNICAL SOLUTIONS
U.S. EPA ID Number: NJD980631369

7. Transporter 2 Company Name
FREEHOLD CARTAGE INC
U.S. EPA ID Number: NJD054126164

8. Designated Facility Name and Site Address
VEOLIA ES TECHNICAL SOLUTIONS L.L.C.
1 EDEN LANE
FLANDERS, NJ 07836
Facility's Phone: 973 347-7111
U.S. EPA ID Number: NJD980536594

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, n.o.s., (POLYCHLORINATED BIPHENYLS, METHYL ACETATE), 9, III	9	DM	1,638	K	M PCB2 / D007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
ADDENDUM ATTACHED FOR ADDITIONAL TSCA INFORMATION - ER Service Contracted by VESTS # 1) ERO 171 W (39560 A PTA139560

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name | Signature | Month 11 | Day 06 | Year 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: CRAIG HINCHMAN | Signature | Month 11 | Day 06 | Year 17

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name | Signature | Month | Day | Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

LDR NOTIFICATION OR CERTIFICATION FORM FOR NEW YORK STATE REGULATED PCB WASTE

1) GENERATOR NAME: NYSDEC
2) MANIFEST # 001121960UES 3) VES APPROVAL # PTA139560

4) Please check all boxes that apply. NY PCB Waste Codes:

[ ] B001: Concentrated PCB OIL [ ] B002: Oil/ Liquid 50-499 PPM PCB's
[ ] B003: Oil/ Liquid 500 PPM or greater PCB's [ ] B004: Manufactured PCB Articles 50-499 ppm:
[ ] transformers [ ] motors [ ] switches [ ] cable [ ] pumps [ ] pipe [ ] large capacitors [ ] bushings
[ ] other (specify) : _____
[ ] B005: Manufactured PCB Articles (other than transformers) 500 PPM or greater:
[ ] motors [ ] switches [ ] cable [ ] pumps [ ] pipe [ ] large capacitors [ ] bushings
[ ] other (specify): _____
[ ] B006: PCB Transformers 500 PPM or greater [X] B007: Other PCB Wastes: [ ] soil [X] sludge
[ ] clothing [ ] rags [ ] wood [ ] other (specify): _____

5) Check ONE box as appropriate:
Certification – Waste Meets Land Disposal Treatment Standards:

[X] I am the generator of the waste as identified above, that is restricted under 6NYCRR Parts 376. I have determined that this waste meets all applicable treatment standards set forth in 6NYCRR376 and, therefore, it can be land disposed without further treatment.
Waste does not include solidified B002 material (Liquid with PCB'S 50-500 PPM).

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that waste complies with the treatment standards specified in Part 376, Section 376.4 and all applicable prohibitions set forth in subdivision 376.3(b) of Part 376 or RCRA Section 3004 (d).I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification including the possibility of a fine or imprisonment.

Notification – Waste Does Not Meet Land Disposal Treatment Standards:

[ ] I am the generator of a waste restricted under 6 NYCRR Part 376 as identified above. I notify that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this notification that the waste does not comply with the treatment standards specified in 6 NYCRR Part 376.4(f). This waste must be treated to the applicable standard set forth in 6 NYCRR Part 376.4(f) prior to land disposal.

6) SIGNATURE: [signature] on behalf of NYSDEC
7) TITLE: ENVIRONMENTAL ENGINEER II 8) DATE: 11/6/17

Note: This form is required for wastes containing 50 ppm PCB or greater. The profiled waste on the manifest number indicated above is listed hazardous waste (B-Coded) in NY State. Note: 50-500 ppm PCB drained articles and small capacitors (as defined in 40CFR761.3) are "not" regulated by NY State. Please complete items # 1-8 above & send with first shipment of waste/ profile .....

PACKING SUMMARY

Generator Number: 637437
NYSDEC FORT EDWARD LANDFILL
LEAVY HOLLOW LANE
FORT EDWARD, NY 12828
Attn: Jasmine Mullins
EPA ID: NOT REQ

Manifest Number: 001121960VES
Field System ID: KN
Work Order Number: 2939002000
Date Shipped: 11/06/2017

Container#: KN-2939002000-001 Waste Area: Manifest Page/Line: 01 / 1

WIP: 139560 DisposalCode: PTA139560 PHY State: M

Date Accumulated: 11/06/2017 Gen Drum ID:

Shipping Name: UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, n.o.s., (POLYCHLORINATED BIPHENYLS, METHYL ACETATE), 9, III

No. of Commons: 15 Outer Container: 551A2-DM Inner Container:

Primary Waste Codes: B,B007,PCB2 PCB Serial #: KN2939002000001010 OOS Date: 11/06/2017

Total Cmns Wt: 2730 SIC: 9999 Source: G13 Form: W310 System: H040 Cubic Ft.: 7.50

Individual Common Weights: 182, 182, 182, 182, 182, 182, 182, 182, 182, 182, 182, 182, 182, 182, 182 (KILOGRAMS)

Units	Container Size	Net Weight	Chemical Name	EPA/State Codes
1	55 GAL		ARSENIC [0.01-0.02M] BARIUM (ELEMENT) [0.05-1.1M] CHROMIUM [0.01M] METHYL ACETATE [4.4-4.85B] SELENIUM (ELEMENT) [0.6M] POLYCHLORINATED BIPHENYLS (SHIPMENT BY HIGHWAY) [85-87M] FILTER SLUDGE (ANALYTICAL ATTACHED) [99-100%]	B, B007, PCB2

Activity Report

JOB NO: 2939002000 WO NO: 2939002000
BILL DOC NO KN70100704 EPA ID: NOT REQ
GENERATOR NO 637437

BILL TO: ARCADIS OF NEW YORK INC
855 ROUTE 146 SUITE 210
CLIFTON PARK, NY 12065
(518) 555-5555

JOB SITE: NYSDEC FORT EDWARD LANDFILL
LEAVY HOLLOW LANE
FORT EDWARD, NY 12828
(518) 250-7308

CONTACT: JEREMY WYCRAFT

CONTACT: Jasmine Mullins

MANIFEST NUMBER(S):
001121960VES

CUSTOMER P.O. NUMBER	PROJECT NUMBER	SHIP DATE	TERR.
		11/06/2017	NY1

DESCRIPTION	# CONT.	CONT./CODE	QTY	UOM	PG/LN	WASTE AREA
Manifest # 001121960VES WIP 139560 / Approval PTA139560 HAZ FILTER SLUDGE	9	551A2-DM	1,638	K	1 / 1	

Total Hours: 0

Veolia Environmental Solutions is permitted for and has capacity to accept waste listed above in container quantities.

Veolia ES, Technical Solutions L.L.C.

ADDENDUM TO MANIFEST TRACKING NUMBER:

001121960VES

GENERATOR : 637437 - NYSDEC FORT EDWARD LANDFILL EPA ID : NOT REQ GEN DOC NUM : DATE SHIPPED: 11/06/2017

Manifest Pg/Ln		WP #	WP Description	Approval #	Physical State / Hazard Codes	Waste Codes	Container count & size	Generator Drum ID	Veolia Drum #	PCB Container No	OOSD
1	1	139560	HAZ FILTER SLUDGE	PTA139560	M/-	B, B007, PCB2	15x55 GAL		1	KN2939002000001010	11/06/2017
										KN2939002000001020	11/06/2017
										KN2939002000001030	11/06/2017
										KN2939002000001040	11/06/2017
										KN2939002000001050	11/06/2017
										KN2939002000001060	11/06/2017
										KN2939002000001070	11/06/2017
										KN2939002000001080	11/06/2017
										KN2939002000001090	11/06/2017
										KN2939002000001100	11/06/2017
										KN2939002000001110	11/06/2017
										KN2939002000001120	11/06/2017
										KN2939002000001130	11/06/2017
										KN2939002000001140	11/06/2017
										KN2939002000001150	11/06/2017