



**WASTE MANAGEMENT**

1550 Balmer Road  
Model City, NY 14107  
716 286 1550  
716 286 0211 Fax

July 12, 2017

Mr. David Denk  
New York State Department of  
Environmental Conservation  
Region 9  
270 Michigan Avenue  
Buffalo, New York 14203-2915

Re: Air State Facility Permit Modification Application – RMU-2  
Response to Second Notice if Incomplete Application

Dear Mr. Denk:

Most recently, on May 23, 2017, CWM Chemical Services, LLC., (CWM) submitted a revised Air State Facility Permit Modification Application Updated Emissions Inventory for the addition of Residuals Management Unit No. 2 (RMU-2) to the Model City, New York facility, prepared by Conestoga-Rovers & Associates, Inc. (CRA, now known as GHD). The application was revised in response to a Notice of Incomplete Application (NOIA) issued by the New York State Department of Environmental Conservation (NYSDEC) on December 7, 2016.

On June 2, 2017, an Air Quality Modeling Report was submitted in support of the application and a NYSDEC required Air Permit Application Form, including CWM's certification and an engineering certification by GHD was submitted on June 7, 2017. The NYSDEC issued a Second Notice of Incomplete Application on June 22, 2017, which included a comment on the Air Permit Application Form and eleven comments on the RMU-2 Air Quality Modeling Report.

Please find attached in Enclosure No. 1 CWM's responses to the NYSDEC's comments and a revised Air Permit Application Form in Enclosure No. 2. The RMU-2 Air Quality Modeling Report has also been revised in response to the NYSDEC comments and is attached as Enclosure No. 3. A Compact Diskette (CD) with the all pertinent modeling input and output files is attached as Enclosure No. 4.

Please call Mr. Jonathan Rizzo at (716) 286-0354 or myself at (716) 286-0246 if you have any questions or comments.

June 7, 2017

Mr. David Denk

NYSDEC

Re: Air State Facility Permit Modification Application – RMU-2

Air Permit Application Form

Page - 2 -

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Sincerely,

CWM CHEMICAL SERVICES, LLC



Jill A. Banaszak

Technical Manager

Model City Facility

JPR/JAB/jpr

Attachment

cc: T. Mucha - NYSDEC/Region 9 (e-copy cover letter & Encl. Nos.1-3, only)  
M. Passuite - NYSDEC/Region 9 (e-copy cover letter & Encl. Nos.1-3, only)  
P. Grasso - NYSDEC/Region 9 (e-copy cover letter & Encl. Nos.1-3, only)  
B. Rostami - NYSDEC/Region 9 (e-copy cover letter & Encl. Nos.1-3, only)  
A. Carlacci - NYSDEC/Region 9 (e-copy cover letter & Encl. Nos.1-3, only)  
J. Kent - NYSDEC/Albany, NY (e-copy cover letter & Encl. Nos.1-3, only)  
M. Cruden - NYSDEC/Albany, NY (e-copy cover letter & Encl. Nos.1-3, only)  
T. Killeen - NYSDEC/Albany, NY (e-copy cover letter & Encl. Nos.1-3, only)  
On-site Monitors - NYSDEC/ Model City, NY (e-copy cover letter & Encl. Nos.1-3, only)  
only)  
A. Park - USEPA/Region II (e-copy cover letter & Encl. Nos.1-3, only)  
N. Azzam - USEPA/Region II (e-copy cover letter & Encl. Nos.1-3, only)  
P. Dicky - NCHD/Lockport, NY (e-copy cover letter & Encl. Nos.1-3, only)  
M. Mahar - CWM/Model City, NY (e-copy cover letter & Encl. Nos.1-3, only)  
J. Rizzo - CWM/Model City, NY (e-copy cover letter & Encl. Nos.1-3, only)  
D. Darragh - Cohen & Grigsby/Pittsburgh, PA (e-copy cover letter & Encl. Nos.1-3, only)  
3, only)  
EMD Subject File  
Q & A

**ENCLOSURE NO. 1**  
**CWM's RESPONSE TO NYSDEC JUNE 22, 2017 SECOND NOIA COMMENTS ON**  
**AIR STATE FACILITY PERMIT MODIFICATION REQUEST**  
**FOR PROPOSED RMU-2**

July 12, 2017

**CWM RESPONSE TO NYSDEC  
JUNE 22, 2017 NOTICE OF INCOMPLETE APPLICATION  
AIR STATE FACILITY PERMIT MODIFICATION  
REQUEST  
RESIDUALS MANAGEMENT UNIT 2  
CWM CHEMICAL SERVICES, LLC  
MODEL CITY, NEW YORK**

The following are CWM Chemical Services, LLC., (CWM's) responses to New York State Department of Environment Conservation (NYSDEC) June 22, 2016 Notice of Incomplete Application (NOIA).

The NYSDEC NOIA comments were based on their review of CWM's Application submittals dated May 23, 2017, June 2, 2017, and June 7, 2017 associated with proposed Residuals Management Unit 2 (RMU-2) at the CWM facility in Model City, New York. The NYSDEC comments are repeated below in *italics* followed by CWM's response.

***NYSDEC Comment Page 1, Paragraph 2 of June 22, 2017 NOIA***

*Specifically, the Application submitted on June 7, 2017 lists 40 CFR 63, Subpart DD (National Emission Standards for Hazardous Air Pollutants from Off-Site Waste and Recovery Operations) as an applicable federal requirement to the proposed RMU-2 landfill. That federal regulation, however, only pertains to Title V facilities and CWM is requesting an Air State Facility Permit. Please clarify this item and submit a revised application with original signature.*

**CWM Response NYSDEC Comment Page 1, Paragraph 2**

Section III, Page 2, of the June 7, 2017 Air State Facility Permit Application Form has been revised in response to the NYSDEC Comment and the reference to Subpart DD removed.

***NYSDEC Comment No. 1***

*1. Modeling inputs in table 1A for non-high toxicity air contaminant (HTAC) compounds from the two baghouses that exhaust from the stabilization facility list emissions at nine pounds per hour for each of the two baghouses, for a total emission rate of 18 pounds per hour from the stabilization facility. The Application, as well as Section 3.1 of the Modeling Report, state that CWM would limit the short-term emission rate from stabilization to 10 pounds per hour and acknowledged that going above that emission rate would subject the process to air controls pursuant to Part 212-2.3 of Title 6 of the New York Codes, Rules and Regulations (6 NYCRR). Please clarify this item and either re-run the model with the correct emission rate or advise if CWM anticipates the need for the Air State Facility Permit to incorporate additional air controls.*

**CWM Response to Comment No. 1**

The modeling for non-HTACs was initially run with emission rates of 5 pounds per hour (lb/hr) for each baghouse for a total of 10 lb/hr for the stabilization facility (see modeling files that were previously



submitted). However NYSDEC Comment 3 is requesting that the emissions should be proportioned according to the respective exhaust flow rates for each baghouse. Therefore, Table 1A of the Air Quality Modeling Report has been revised to reflect emission rates of 6.43 lb/hr for baghouse #1 (reflecting an exhaust flow of 90,000 ACFM) and 3.57 lb/hr for baghouse #2 (reflecting an exhaust flow of 50,000 ACFM). As the total emission rate from the stabilization facility does not exceed 10 lb/hr for any non-HTAC compound, no controls are required.

**NYSDEC Comment No. 2**

2. *There are discrepancies between certain emissions listed in the Modeling Report and those provided in the May 23, 2017 Emissions Inventory Report. For instance, the Emission Inventory Report contains PCB concentrations that should have been used for determining PCB\_1 (Aroclor 1242 and less), and PCB\_2 (Aroclor greater than 1242) emission rates for each of the closed landfills. The values in Table 1A do not reflect those concentrations. Please explain how PCB\_1 and PCB\_2 values were calculated for all sources.*

**CWM Response to Comment No. 2**

Table 1A and 1B of the Air Quality Modeling Report have been revised using individual Aroclors, rather than PCB\_1 and PCB\_2. For each of the closed landfills, the individual Aroclor concentrations was used. For sources with total PCBs, but without Aroclor data, the total PCB emissions are broken down into the three dominant Aroclors at the facility: Aroclor 1242, Aroclor 1254 and Aroclor 1260. Based on the average of the Aroclor types for the existing sources presented in the May 23, 2017 Emission Inventories (SLF 1-6, SLF-7, SLF-10, SLF-11, SLF-12 and RMU-1), total PCB emissions are appropriated as follows:

|                   | TOTAL  | Aroclor<br>1242 | Aroclor<br>1254 | Aroclor<br>1260 |
|-------------------|--------|-----------------|-----------------|-----------------|
| (% of<br>TOTAL) * | 100.00 | 35.85           | 33.64           | 30.51           |

This breakdown was applied for the stabilization facility and the proposed RMU-2 Landfill.

**NYSDEC Comment No. 3**

3. *For the modeling files entitled "10LbPerHr," the emission rates of Xylene, Toluene, Methylene Chloride, Methyl Ethyl Ketone from "Stabilization Baghouse #1" and "Stabilization Baghouse #2" are 0.63 grams/second but the emission rates on Table 1A are 1.13 grams/second. In addition the air flow rates between the two baghouses are not identical. The emissions from the stabilization process should be allocated to each stabilization baghouse based on the proportion of air flow. Please update the modeling inputs and modeling, or explain why the method used is appropriate.*

**CWM Response to Comment No. 3**

See response to comment 1.

**NYSDEC Comment No. 4**

4. *Please explain why the facility-wide 10 ton per year cap of hazardous air pollutants, including, Xylene, Toluene and Methylene Chloride, which is emitted from multiple sources, is modeled as only emitted from the stabilization baghouses. The gram per second emission rate for the 10 ton per year caps was not included in the modeling report. As these are inputs to the model, incorrect numbers will impact the results of the model.*

**CWM Response to Comment No. 4**

The facility-wide modeling included emissions from the landfills, fac ponds and stabilization. The stabilization facility is the only emission source that contains a vent or appurtenant exhaust system capable of causing emissions of any air contaminant to the outdoor atmosphere from a process operation. The non-HTACs from the stabilization facility were modeled using emission rates of 10 lb/hr, as this is the maximum short-term emission rate that would not require consideration of air controls. The landfill areas and facultative ponds are storage systems that do not contain any vents or exhaust systems. In addition, the landfill areas and facultative ponds also have relatively insignificant emission rates that do not nearly approach the value of 10 lb/hr. Therefore, non-HTACs from the stabilization facility were modeled using emission rates of 10 lb/hr (as discussed in our response to comment #1) to compare with the short-term guidance concentration (SGC) published in DAR-1. For comparison to the annual guidance concentration (AGC), an emission rate of 43.6 tons per year was assumed for methyl ethyl ketone (since it is not a hazardous air pollutant (HAP), while a value of 10 TPY was assumed for toluene, xylene and methylene chloride, since these three pollutants are HAPs. Emissions from the landfill areas and facultative ponds were referenced from the previous emission inventories submitted on May 23, 2017.

**NYSDEC Comment No. 5**

5. *Xylene emissions for cover diffusion and barometric pumping was included in the RMU-1 inventory but not as an input to the model. In addition, emissions from drums leaking/spilling inside a building were not included in the model. Please clarify this item and re-run the model accordingly.*

**CWM Response to Comment No. 5**

The model has been re-run with xylene emissions included for the RMU-1 landfill area. The modeling of leak/spills from drums is difficult to model since they are not planned events, can occur at various locations across the facility, and generally would occur within a building. Tanks and containers are managed in accordance with 373-2.29, to minimize potential for air emissions. Work practices and best management procedures are employed to prevent spills. Therefore, a condition could be added to the permit that requires the facility to employ best practices for the containment/ prevention of leaking containers/ drums at the facility.

**NYSDEC Comment No. 6**

6. *There is a mathematical error regarding the PCB, PCB\_1 and PCB\_2 totals in the RMU-2 Closed Emissions portion of Table 1B. It appears that Fac Ponds 3 and 5 were not included in the summation. Please clarify this item. As these are inputs to the model, incorrect numbers will impact the results of the model.*

### **CWM Response to Comment No. 6**

The facultative ponds and the RMU-2 Landfill are separate area sources. Therefore, emissions are calculated separately for these sources on different lines in Table 1B (and are not summed together).

### **NYSDEC Comment No. 7**

7. *There are inconsistencies in the surface area of some of the landfills entered in the model as compared to Figure 1 and Table 28. Please clarify this item.*

### **CWM Response to Comment No. 7**

The surface areas shown in Figure 1 and Table 2B are based on an AutoCAD drawing created for the facility sources. These values are slightly different from the surface areas that were reported by the modeling output files, since this analysis was conducted by our modeling group. For consistency, Figure 1 and Table 2B of the Air Quality Modeling Report have been revised to reflect the surface areas used in the AERMOD modeling analysis.

### **NYSDEC Comment No. 8**

8. *Please provide the basis to support the position that all emissions from Fac Pond 3 will cease by the time RMU-2 begins operations.*

### **CWM Response to Comment No. 8**

The May 23, 2017 emissions estimates for RMU-2 are based on the full build out of the landfill. That being six (6) cells, 19 acres of operational area (active area and interim cover area), and 19.5 acres of waste area that has received final cover. The June 2, 2017 Air Quality Modeling was performed utilizing the calculations for the full build out of RMU-2. Facultative (Fac) Pond 3 will only operate during the first phase of RMU-2 development/operation. The first phase of RMU-2 development will be the construction/operation of Cell 20, which will have an operational area of 6.32 acres. During the second phase of RMU-2 development (Cell 18), Fac Pond 3 will be closed and Fac Pond 5 will be constructed.

Fac Ponds 3 and 5 will not be used to store effluent from the aqueous waste treatment facility at the same time. The treated effluent in Fac Pond 3 will be discharged or transferred and the pond taken out of service for closure prior to starting the storage of treated effluent in Fac Pond 5. In addition, CWM is willing to accept a permit condition that prohibits the facility from discharging treated effluent to Fac Pond 3 and Fac Pond 5 simultaneously.

### **NYSDEC Comment No. 9**

9. *The Modeling Report does not fully address the potential emissions from the storm water basin used to collect RMU-2 contact stormwater runoff prior to treatment. The model needs to be revised accordingly.*

### **CWM Response to Comment No. 9**

Emissions from the RMU-2 Landfill have already been calculated for diffusion through the cover, evaporation from the leachate standpipes and emissions from the active working face and are assumed to be occurring continuously throughout the year. Stormwater runoff passing over the surface of waste with cover applied, has minimal contact time allowing minimal transfer of constituents. The emissions from these constituents has already been accounted for in the cover diffusion calculation. In addition, collected stormwater above 1 foot depth must be pumped into the leachate collection system and processed at the Aqueous Water Treatment Facility (AWTF).

**NYSDEC Comment No. 10**

*10. CWM modeled the short term guidance concentration on an emission rate of eight hours per day for open emissions plus 16 hours per day for closed emissions, rather than the maximum hourly emission rate 24/7. Please remodel the short term concentration.*

**CWM Response to Comment No. 10**

As the facility is accepting a permit condition that will limit the amount of hours that RMU-2 Landfill is active each day (8 hours per day active Monday through Saturday, 16 hours per day with daily cover Monday through Saturday, closed 24 hours on Sunday), the model was previously run according to these conditions. In order to run the model through all possible daily meteorological conditions for comparison with the short-term guidance concentration (SGC), the model has been re-run assuming that the landfill is active seven days per week rather than six days per week (for compounds that have a published SGC value).

**NYSDEC Comment No. 11**

*11. The RMU-2PCB\_1 modeling input file used a daily cover factor of 0.01368 at 10 a.m. from Monday through Friday. This factor needs to be corrected to an open face factor which is 1.*

**CWM Response to Comment No. 11**

The modeling file has been corrected.

**ENCLOSURE NO. 2**  
**REVISED AIR PERMIT APPLICATION FORM**

July 12, 2017

**New York State Department of Environmental Conservation**  
**Air Permit Application**



**Department of  
Environmental  
Conservation**

| DEC ID |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|
| 9      | - | 2 | 9 | 3 | 4 | - | 0 | 0 | 2 | 2 |

| Application ID |  |  |  |  |  |  |  |  |   |  |
|----------------|--|--|--|--|--|--|--|--|---|--|
| -              |  |  |  |  |  |  |  |  | / |  |

| Application Type |         |
|------------------|---------|
| * State Facility | Title V |

**Section I - Certification**

| Certification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information required to complete this application, I believe the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations. |                                      |
| Responsible Official <b>Michael Mahar</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Title <b>Senior District Manager</b> |
| Signature <i>[Signature]</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Date <b>7/12/17</b>                  |
| Professional Engineer Certification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |
| I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments as they pertain to the practice of engineering. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.                                                                                                                                                                                                                                 |                                      |
| Professional Engineer <b>Richard Snyder</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NYS License No. <b>066242-1</b>      |
| Signature <i>[Signature]</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Date <b>7-12-17</b>                  |

**Section II - Identification Information**

| Type of Permit Action Requested                                                                                                                                                                                          |                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <input type="checkbox"/> New                                                                                                                                                                                             | <input type="checkbox"/> Renewal                  |
| <input type="checkbox"/> Significant Modification                                                                                                                                                                        | <input type="checkbox"/> Administrative Amendment |
| <input checked="" type="checkbox"/> Minor Modification                                                                                                                                                                   |                                                   |
| Application for the construction of a new facility <input checked="" type="checkbox"/> Application involves the construction of new emission unit(s)                                                                     |                                                   |
| Facility Information                                                                                                                                                                                                     |                                                   |
| Name <b>CWM Model City Facility</b>                                                                                                                                                                                      |                                                   |
| Location Address <b>1550 Balmer Road</b>                                                                                                                                                                                 |                                                   |
| * City / Town / Village <b>Model City</b>                                                                                                                                                                                | Zip <b>14107</b>                                  |
| Owner/Firm Information                                                                                                                                                                                                   |                                                   |
| Name <b>CWM Chemical Services, LLC</b>                                                                                                                                                                                   |                                                   |
| Street Address <b>1550 Balmer Road</b>                                                                                                                                                                                   |                                                   |
| City <b>Model City</b>                                                                                                                                                                                                   | State/Province <b>NY</b>                          |
| Country <b>USA</b>                                                                                                                                                                                                       | Zip <b>14107</b>                                  |
| Owner Classification: <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Municipal <input checked="" type="checkbox"/> Corporation/Partnership <input type="checkbox"/> Individual |                                                   |
| Owner/Firm Contact Information                                                                                                                                                                                           |                                                   |
| Name <b>Banaszak, Jill</b>                                                                                                                                                                                               | Phone <b>(716) 286 - 0246</b>                     |
| E-mail Address <b>Jbanasz@wm.com</b>                                                                                                                                                                                     | Fax <b>(716) 286 - 0224</b>                       |
| Affiliation <b>CWM Chemical Services, LLC</b>                                                                                                                                                                            | Title <b>Technical Manager</b>                    |
| Street Address <b>1550 Balmer Road</b>                                                                                                                                                                                   |                                                   |
| City <b>Model City</b>                                                                                                                                                                                                   | State/Province <b>NY</b>                          |
| Country <b>USA</b>                                                                                                                                                                                                       | Zip <b>14107</b>                                  |
| Facility Contact Information                                                                                                                                                                                             |                                                   |
| Name <b>Banaszak, Jill</b>                                                                                                                                                                                               | Phone <b>(716) 286 - 0246</b>                     |
| E-mail Address <b>Jbanasz@wm.com</b>                                                                                                                                                                                     | Fax <b>(716) 286 - 0224</b>                       |
| Affiliation <b>CWM Chemical Services, LLC</b>                                                                                                                                                                            | Title <b>Technical Manager</b>                    |
| Street Address <b>1550 Balmer Road</b>                                                                                                                                                                                   |                                                   |
| City <b>Model City</b>                                                                                                                                                                                                   | State/Province <b>NY</b>                          |
| Country <b>USA</b>                                                                                                                                                                                                       | Zip <b>14107</b>                                  |

# New York State Department of Environmental Conservation

## Air Permit Application



Department of  
Environmental  
Conservation

| DEC ID |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|
| 9      | - | 2 | 9 | 3 | 4 | - | 0 | 0 | 0 | 2 | 2 |

| Project Description                                                                                                                                                 | <input type="checkbox"/> Continuation Sheet(s) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| CWM Chemical Services, LLC is applying for an Air State Facility Permit Modification to incorporate the RMU-2 Area. The project is considered a minor modification. |                                                |

### Section III - Facility Information

| Facility Classification                     |               |                           |               |                    |         |
|---------------------------------------------|---------------|---------------------------|---------------|--------------------|---------|
| Hospital                                    | Residential   | Educational/Institutional | Commercial    | * Industrial       | Utility |
| Affected States (Title V Applications Only) |               |                           |               |                    |         |
| Vermont                                     | Massachusetts | Rhode Island              | Pennsylvania  | Tribal Land: _____ |         |
| New Hampshire                               | Connecticut   | New Jersey                | Ohio          | Tribal Land: _____ |         |
| SIC Code(s)                                 |               |                           | NAICS Code(s) |                    |         |
| 4953                                        |               |                           | 562211        |                    |         |

| Facility Description                                                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/> Continuation Sheet(s) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| The CWM facility is an existing commercial hazardous waste treatment, storage, and disposal facility (TSDF) in Model City, Niagara County, New York. This TSDF began operation in 1972 as ChemTrol Pollution Services, Inc. Due to corporate acquisitions and name changes, CWM, a subsidiary of Waste Management, Inc., is the present owner and operator of the facility. |                                                |

| Compliance Statements (Title V Applications Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>I certify that as of the date of this application the facility is in compliance with all applicable requirements. Yes   No</p> <p>If one or more emission units at the facility are not in compliance with all applicable requirements at the time of signing this application (the 'NO' box must be checked), the noncomplying units must be identified in the "Compliance Plan" block on page 8 of this form along with the compliance plan information required. For all emission units at the facility that are operating <u>in compliance</u> with all applicable requirements, complete the following:</p> <p><input type="checkbox"/> This facility will continue to be operated and maintained in such a manner as to assure compliance for the duration of the permit, except those emission units referenced in the compliance plan portion of this application.</p> <p>For all emission units subject to any applicable requirements that will become effective during the term of the permit, this facility will meet such requirements on a timely basis.</p> <p>Compliance certification reports will be submitted at least once per year. Each report will certify compliance status with respect to each applicable requirement, and the method used to determine the status.</p> |

| Facility Applicable Federal Requirements |      |      |         |         |             |           |              |        | <input type="checkbox"/> Continuation Sheet(s) |
|------------------------------------------|------|------|---------|---------|-------------|-----------|--------------|--------|------------------------------------------------|
| Title                                    | Type | Part | Subpart | Section | Subdivision | Paragraph | Subparagraph | Clause | Subclause                                      |
| 40                                       | CFR  | 63   | ZZZZ    |         |             |           |              |        |                                                |
|                                          |      |      |         |         |             |           |              |        |                                                |
|                                          |      |      |         |         |             |           |              |        |                                                |
|                                          |      |      |         |         |             |           |              |        |                                                |

| Facility State Only Requirements |       |      |         |         |             |           |              |        | <input type="checkbox"/> Continuation Sheet(s) |
|----------------------------------|-------|------|---------|---------|-------------|-----------|--------------|--------|------------------------------------------------|
| Title                            | Type  | Part | Subpart | Section | Subdivision | Paragraph | Subparagraph | Clause | Subclause                                      |
| 6                                | NYCRR | 200  |         |         |             |           |              |        |                                                |
| 6                                | NYCRR | 201  |         |         |             |           |              |        |                                                |
| 6                                | NYCRR | 211  |         |         |             |           |              |        |                                                |
| 6                                | NYCRR | 212  |         |         |             |           |              |        |                                                |

# New York State Department of Environmental Conservation

## Air Permit Application



Department of  
Environmental  
Conservation

| DEC ID |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|
| 9      | - | 2 | 9 | 3 | 4 | - | 0 | 0 | 0 |
| 2      | 2 |   |   |   |   |   |   |   |   |

| Facility Compliance Certification                                                                                                                                                                                                                                                                                                                                                               |                                  |                     |                      |                        |             |                                  |                              |                                         |           | x Continuation Sheet(s) |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------|----------------------|------------------------|-------------|----------------------------------|------------------------------|-----------------------------------------|-----------|-------------------------|--|
| Rule Citation                                                                                                                                                                                                                                                                                                                                                                                   |                                  |                     |                      |                        |             |                                  |                              |                                         |           |                         |  |
| Title                                                                                                                                                                                                                                                                                                                                                                                           | Type                             | Part                | Subpart              | Section                | Subdivision | Paragraph                        | Subparagraph                 | Clause                                  | Subclause |                         |  |
| 6                                                                                                                                                                                                                                                                                                                                                                                               | NYCRR                            | 201                 | 7                    |                        |             |                                  |                              |                                         |           |                         |  |
| * Applicable Federal Requirement                                                                                                                                                                                                                                                                                                                                                                |                                  |                     | Capping              |                        | CAS Number  |                                  | Contaminant Name             |                                         |           |                         |  |
| State Only Requirement                                                                                                                                                                                                                                                                                                                                                                          |                                  |                     |                      |                        | NY998-00-0  |                                  | Volatile Organic Compounds   |                                         |           |                         |  |
| Monitoring Information                                                                                                                                                                                                                                                                                                                                                                          |                                  |                     |                      |                        |             |                                  |                              |                                         |           |                         |  |
| Work Practice Involving Specific Operations                                                                                                                                                                                                                                                                                                                                                     |                                  |                     |                      | Ambient Air Monitoring |             |                                  |                              | x Record Keeping/Maintenance Procedures |           |                         |  |
| Compliance Activity Description                                                                                                                                                                                                                                                                                                                                                                 |                                  |                     |                      |                        |             |                                  |                              |                                         |           |                         |  |
| Total potential VOC emissions from the facility are less than 50 tons per year. The facility will calculate total VOC emissions for VOCs reported to be present in waste management operations and other site operations on a 12-month rolling basis in order to demonstrate that emissions of VOCs are less than 50 tons per year. Records will be kept at the Site and provided upon request. |                                  |                     |                      |                        |             |                                  |                              |                                         |           |                         |  |
| Work Practice Type Code                                                                                                                                                                                                                                                                                                                                                                         |                                  | Process Material    |                      |                        |             | Reference Test Method            |                              |                                         |           |                         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                 |                                  | Code                | Description          |                        |             |                                  |                              |                                         |           |                         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                 |                                  |                     |                      |                        |             |                                  |                              |                                         |           |                         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                 |                                  | Monitored Parameter |                      |                        |             | Manufacturer's Name/Model Number |                              |                                         |           |                         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                 |                                  | Code                | Description          |                        |             |                                  |                              |                                         |           |                         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                 |                                  |                     |                      |                        |             |                                  |                              |                                         |           |                         |  |
| Limit                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                     | Limit Units          |                        |             |                                  |                              |                                         |           |                         |  |
| Upper                                                                                                                                                                                                                                                                                                                                                                                           | Lower                            |                     | Code                 | Description            |             |                                  |                              |                                         |           |                         |  |
| 50                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                     | 38                   | Tons per year          |             |                                  |                              |                                         |           |                         |  |
| Averaging Method                                                                                                                                                                                                                                                                                                                                                                                |                                  |                     | Monitoring Frequency |                        |             |                                  | Reporting Requirements       |                                         |           |                         |  |
| Code                                                                                                                                                                                                                                                                                                                                                                                            | Description                      |                     | Code                 | Description            |             | Code                             | Description                  |                                         |           |                         |  |
| 17                                                                                                                                                                                                                                                                                                                                                                                              | 12-Month Rolling Total           |                     | 05                   | Monthly                |             | 10                               | Upon request                 |                                         |           |                         |  |
| Facility Emissions Summary                                                                                                                                                                                                                                                                                                                                                                      |                                  |                     |                      |                        |             |                                  |                              |                                         |           | Continuation Sheet(s)   |  |
| CAS Number                                                                                                                                                                                                                                                                                                                                                                                      | Contaminant Name                 |                     |                      |                        |             | Potential to Emit (tons/yr)      | Actual Emissions (pounds/yr) |                                         |           |                         |  |
| 0NY075 - 00 - 5                                                                                                                                                                                                                                                                                                                                                                                 | PM-10                            |                     |                      |                        |             | 12.0                             |                              |                                         |           |                         |  |
| 0NY750 - 02 - 5                                                                                                                                                                                                                                                                                                                                                                                 | PM-2.5                           |                     |                      |                        |             | 6.8                              |                              |                                         |           |                         |  |
| 007446 - 09 - 5                                                                                                                                                                                                                                                                                                                                                                                 | Sulfur Dioxide                   |                     |                      |                        |             | 0.01                             |                              |                                         |           |                         |  |
| 0NY210 - 00 - 0                                                                                                                                                                                                                                                                                                                                                                                 | Oxides of Nitrogen               |                     |                      |                        |             | 4.6                              |                              |                                         |           |                         |  |
| 000630 - 08 - 0                                                                                                                                                                                                                                                                                                                                                                                 | Carbon Monoxide                  |                     |                      |                        |             | 2.6                              |                              |                                         |           |                         |  |
| 007439 - 92 - 1                                                                                                                                                                                                                                                                                                                                                                                 | Lead (elemental)                 |                     |                      |                        |             | 0.002                            |                              |                                         |           |                         |  |
| 0NY998 - 00 - 0                                                                                                                                                                                                                                                                                                                                                                                 | Total Volatile Organic Compounds |                     |                      |                        |             | < 50                             |                              |                                         |           |                         |  |
| 0NY100 - 00 - 0                                                                                                                                                                                                                                                                                                                                                                                 | Total Hazardous Air Pollutants   |                     |                      |                        |             | < 25                             |                              |                                         |           |                         |  |
| 0NY750 - 00 - 0                                                                                                                                                                                                                                                                                                                                                                                 | Carbon Dioxide Equivalents       |                     |                      |                        |             | 4,472                            |                              |                                         |           |                         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                 | All Individual Speciated HAPs    |                     |                      |                        |             | < 10                             |                              |                                         |           |                         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                 |                                  |                     |                      |                        |             |                                  |                              |                                         |           |                         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                 |                                  |                     |                      |                        |             |                                  |                              |                                         |           |                         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                 |                                  |                     |                      |                        |             |                                  |                              |                                         |           |                         |  |



# New York State Department of Environmental Conservation

## Air Permit Application Form



| DEC ID |   |   |   |   |   |   |   |   |   |   |   |
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### Section III - Facility Information

| Facility Compliance Certification (continuation)                                                                                                                                                                                                                                                                                                                                                       |                        |                  |                                  |             |                                                                                                                                                                                                                                                 |                             |              |        |           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------|----------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------|--------|-----------|
| Rule Citation                                                                                                                                                                                                                                                                                                                                                                                          |                        |                  |                                  |             |                                                                                                                                                                                                                                                 |                             |              |        |           |
| Title                                                                                                                                                                                                                                                                                                                                                                                                  | Type                   | Part             | Subpart                          | Section     | Subdivision                                                                                                                                                                                                                                     | Paragraph                   | Subparagraph | Clause | Subclause |
| 6                                                                                                                                                                                                                                                                                                                                                                                                      | NYCRR                  | 201              | 7                                |             |                                                                                                                                                                                                                                                 |                             |              |        |           |
| <input checked="" type="checkbox"/> Applicable Federal Requirement<br><input type="checkbox"/> State Only Requirement                                                                                                                                                                                                                                                                                  |                        |                  | <input type="checkbox"/> Capping | CAS No.     |                                                                                                                                                                                                                                                 | Contaminant Name            |              |        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                        |                        |                  |                                  | NY100-00-0  |                                                                                                                                                                                                                                                 | Total HAPs                  |              |        |           |
| Monitoring Information                                                                                                                                                                                                                                                                                                                                                                                 |                        |                  |                                  |             |                                                                                                                                                                                                                                                 |                             |              |        |           |
| <input type="checkbox"/> Continuous Emission Monitoring<br><input type="checkbox"/> Intermittent Emission Testing<br><input type="checkbox"/> Ambient Air Monitoring                                                                                                                                                                                                                                   |                        |                  |                                  |             | <input type="checkbox"/> Monitoring of Process or Control Device Parameters as a Surrogate<br><input type="checkbox"/> Work Practice Involving Specific Operations<br><input checked="" type="checkbox"/> Record Keeping/Maintenance Procedures |                             |              |        |           |
| Description                                                                                                                                                                                                                                                                                                                                                                                            |                        |                  |                                  |             |                                                                                                                                                                                                                                                 |                             |              |        |           |
| <p>Total potential HAP emissions from the facility are less than 25 tons per year. The facility will calculate total HAP emissions for HAPs reported to be present in waste management operations and other site operations on a 12-month rolling basis in order to demonstrate that emissions of HAPs are less than 25 tons per year. Records will be kept at the Site and provided upon request.</p> |                        |                  |                                  |             |                                                                                                                                                                                                                                                 |                             |              |        |           |
| Work Practice                                                                                                                                                                                                                                                                                                                                                                                          |                        | Process Material |                                  |             |                                                                                                                                                                                                                                                 | Reference Test Method       |              |        |           |
| Type                                                                                                                                                                                                                                                                                                                                                                                                   | Code                   | Description      |                                  |             |                                                                                                                                                                                                                                                 |                             |              |        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                        |                        |                  |                                  |             |                                                                                                                                                                                                                                                 |                             |              |        |           |
| Parameter                                                                                                                                                                                                                                                                                                                                                                                              |                        |                  |                                  |             |                                                                                                                                                                                                                                                 | Manufacturer Name/Model No. |              |        |           |
| Code                                                                                                                                                                                                                                                                                                                                                                                                   | Description            |                  |                                  |             |                                                                                                                                                                                                                                                 |                             |              |        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                        |                        |                  |                                  |             |                                                                                                                                                                                                                                                 |                             |              |        |           |
| Limit                                                                                                                                                                                                                                                                                                                                                                                                  |                        |                  |                                  |             | Limit Units                                                                                                                                                                                                                                     |                             |              |        |           |
| Upper                                                                                                                                                                                                                                                                                                                                                                                                  |                        | Lower            |                                  | Code        | Description                                                                                                                                                                                                                                     |                             |              |        |           |
| 25                                                                                                                                                                                                                                                                                                                                                                                                     |                        |                  |                                  | 38          | Tons per year                                                                                                                                                                                                                                   |                             |              |        |           |
| Averaging Method                                                                                                                                                                                                                                                                                                                                                                                       |                        |                  | Monitoring Frequency             |             |                                                                                                                                                                                                                                                 | Reporting Requirements      |              |        |           |
| Code                                                                                                                                                                                                                                                                                                                                                                                                   | Description            |                  | Code                             | Description |                                                                                                                                                                                                                                                 | Code                        | Description  |        |           |
| 17                                                                                                                                                                                                                                                                                                                                                                                                     | 12-Month Rolling Total |                  | 05                               | Monthly     |                                                                                                                                                                                                                                                 | 10                          | Upon Request |        |           |

Continuation Sheet 1 of 5

# New York State Department of Environmental Conservation

## Air Permit Application Form



| DEC ID |   |   |   |   |   |   |   |   |   |   |   |
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### Section III - Facility Information

| Facility Compliance Certification (continuation)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                  |                                  |             |                                                                                                                                                                                                                                                 |                           |              |        |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------|----------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------|--------|-----------|
| Rule Citation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                  |                                  |             |                                                                                                                                                                                                                                                 |                           |              |        |           |
| Title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Type                   | Part             | Subpart                          | Section     | Subdivision                                                                                                                                                                                                                                     | Paragraph                 | Subparagraph | Clause | Subclause |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | NYCRR                  | 201              | 7                                |             |                                                                                                                                                                                                                                                 |                           |              |        |           |
| <input checked="" type="checkbox"/> Applicable Federal Requirement<br><input type="checkbox"/> State Only Requirement                                                                                                                                                                                                                                                                                                                                                                                                     |                        |                  | <input type="checkbox"/> Capping | CAS No.     |                                                                                                                                                                                                                                                 | Contaminant Name          |              |        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |                  |                                  | Various     |                                                                                                                                                                                                                                                 | Individual Speciated HAPs |              |        |           |
| Monitoring Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                  |                                  |             |                                                                                                                                                                                                                                                 |                           |              |        |           |
| <input type="checkbox"/> Continuous Emission Monitoring<br><input type="checkbox"/> Intermittent Emission Testing<br><input type="checkbox"/> Ambient Air Monitoring                                                                                                                                                                                                                                                                                                                                                      |                        |                  |                                  |             | <input type="checkbox"/> Monitoring of Process or Control Device Parameters as a Surrogate<br><input type="checkbox"/> Work Practice Involving Specific Operations<br><input checked="" type="checkbox"/> Record Keeping/Maintenance Procedures |                           |              |        |           |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |                  |                                  |             |                                                                                                                                                                                                                                                 |                           |              |        |           |
| <p>Total emissions of all individual speciated HAPs from the facility is less than 10 tons per year. The facility will calculate individual speciated HAP emissions for HAPS reported to be present in waste management and other site operations on a 12-month rolling basis in order to demonstrate that total emissions of all individual speciated HAPs is less than 10 tons per year, therefore, no individual HAP is greater than 10 tons per year. Records will be kept at the Site and provided upon request.</p> |                        |                  |                                  |             |                                                                                                                                                                                                                                                 |                           |              |        |           |
| Work Practice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        | Process Material |                                  |             |                                                                                                                                                                                                                                                 | Reference Test Method     |              |        |           |
| Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Code                   | Description      |                                  |             |                                                                                                                                                                                                                                                 |                           |              |        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |                  |                                  |             |                                                                                                                                                                                                                                                 |                           |              |        |           |
| Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                  |                                  |             | Manufacturer Name/Model No.                                                                                                                                                                                                                     |                           |              |        |           |
| Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Description            |                  |                                  |             |                                                                                                                                                                                                                                                 |                           |              |        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |                  |                                  |             |                                                                                                                                                                                                                                                 |                           |              |        |           |
| Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |                  |                                  | Limit Units |                                                                                                                                                                                                                                                 |                           |              |        |           |
| Upper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        | Lower            |                                  | Code        | Description                                                                                                                                                                                                                                     |                           |              |        |           |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |                  |                                  | 38          | Tons per year                                                                                                                                                                                                                                   |                           |              |        |           |
| Averaging Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                  | Monitoring Frequency             |             |                                                                                                                                                                                                                                                 | Reporting Requirements    |              |        |           |
| Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Description            |                  | Code                             | Description |                                                                                                                                                                                                                                                 | Code                      | Description  |        |           |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 12-Month Rolling Total |                  | 05                               | Monthly     |                                                                                                                                                                                                                                                 | 10                        | Upon Request |        |           |

Continuation Sheet 2 of 5

# New York State Department of Environmental Conservation Air Permit Application Form



Department of  
Environmental  
Conservation

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## Section III - Facility Information

| Facility Compliance Certification (continuation)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                  |                                  |             |                                                                                                                                                                                                                                                 |                                      |              |        |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------|----------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------|--------|-----------|
| Rule Citation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                  |                                  |             |                                                                                                                                                                                                                                                 |                                      |              |        |           |
| Title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Type                   | Part             | Subpart                          | Section     | Subdivision                                                                                                                                                                                                                                     | Paragraph                            | Subparagraph | Clause | Subclause |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | NYCRR                  | 212              | 2.2                              |             |                                                                                                                                                                                                                                                 |                                      |              |        |           |
| <input type="checkbox"/> Applicable Federal Requirement<br><input checked="" type="checkbox"/> State Only Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |                  | <input type="checkbox"/> Capping | CAS No.     |                                                                                                                                                                                                                                                 | Contaminant Name                     |              |        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |                  |                                  | Various     |                                                                                                                                                                                                                                                 | HTAC Compounds (excluding PCB & POM) |              |        |           |
| Monitoring Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                  |                                  |             |                                                                                                                                                                                                                                                 |                                      |              |        |           |
| <input type="checkbox"/> Continuous Emission Monitoring<br><input type="checkbox"/> Intermittent Emission Testing<br><input type="checkbox"/> Ambient Air Monitoring                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |                  |                                  |             | <input type="checkbox"/> Monitoring of Process or Control Device Parameters as a Surrogate<br><input type="checkbox"/> Work Practice Involving Specific Operations<br><input checked="" type="checkbox"/> Record Keeping/Maintenance Procedures |                                      |              |        |           |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |                  |                                  |             |                                                                                                                                                                                                                                                 |                                      |              |        |           |
| <p>Emissions of HTACs reported to be present in waste management operations and other site operations (excluding PCB and POM) from the facility are less than the values specified in Table 2 of 6 NYCRR Part 212-2.2. The facility will calculate HTAC emissions for HTACs reported to be present in waste management operations and other site operations (excluding PCB and POM) on a 12-month rolling basis in order to demonstrate that emissions are under the values specified in Table 2 of 6 NYCRR Part 212-2.2. Records will be kept at the Site and provided upon request.</p> |                        |                  |                                  |             |                                                                                                                                                                                                                                                 |                                      |              |        |           |
| Work Practice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        | Process Material |                                  |             |                                                                                                                                                                                                                                                 | Reference Test Method                |              |        |           |
| Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Code                   | Description      |                                  |             |                                                                                                                                                                                                                                                 |                                      |              |        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |                  |                                  |             |                                                                                                                                                                                                                                                 |                                      |              |        |           |
| Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                  |                                  |             |                                                                                                                                                                                                                                                 | Manufacturer Name/Model No.          |              |        |           |
| Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Description            |                  |                                  |             |                                                                                                                                                                                                                                                 |                                      |              |        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |                  |                                  |             |                                                                                                                                                                                                                                                 |                                      |              |        |           |
| Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |                  |                                  | Limit Units |                                                                                                                                                                                                                                                 |                                      |              |        |           |
| Upper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        | Lower            |                                  | Code        | Description                                                                                                                                                                                                                                     |                                      |              |        |           |
| 6 NYCRR 212-2.2, Table 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |                  |                                  | 1           | lb per year                                                                                                                                                                                                                                     |                                      |              |        |           |
| Averaging Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                  | Monitoring Frequency             |             |                                                                                                                                                                                                                                                 | Reporting Requirements               |              |        |           |
| Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Description            |                  | Code                             | Description |                                                                                                                                                                                                                                                 | Code                                 | Description  |        |           |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 12-Month Rolling Total |                  | 05                               | Monthly     |                                                                                                                                                                                                                                                 | 10                                   | Upon Request |        |           |

Continuation Sheet 3 of 5

# New York State Department of Environmental Conservation

## Air Permit Application Form



| DEC ID |   |   |   |   |   |   |   |   |   |   |   |
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### Section III - Facility Information

| Facility Compliance Certification (continuation)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |                  |                                  |                                                                                                                                                                                                                                                            |             |                             |              |        |           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------|--------------|--------|-----------|
| Rule Citation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |                  |                                  |                                                                                                                                                                                                                                                            |             |                             |              |        |           |
| Title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Type                   | Part             | Subpart                          | Section                                                                                                                                                                                                                                                    | Subdivision | Paragraph                   | Subparagraph | Clause | Subclause |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NYCRR                  | 212              | 2.2                              |                                                                                                                                                                                                                                                            |             |                             |              |        |           |
| <input type="checkbox"/> Applicable Federal Requirement<br><input checked="" type="checkbox"/> State Only Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |                  | <input type="checkbox"/> Capping | CAS No.                                                                                                                                                                                                                                                    |             | Contaminant Name            |              |        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                  |                                  | 1336-36-3                                                                                                                                                                                                                                                  |             | PCB                         |              |        |           |
| Monitoring Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                  |                                  |                                                                                                                                                                                                                                                            |             |                             |              |        |           |
| <input type="checkbox"/> Continuous Emission Monitoring<br><input type="checkbox"/> Intermittent Emission Testing<br><input type="checkbox"/> Ambient Air Monitoring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |                  |                                  | <input type="checkbox"/> Monitoring of Process or Control Device Parameters as a Surrogate<br><input checked="" type="checkbox"/> Work Practice Involving Specific Operations<br><input checked="" type="checkbox"/> Record Keeping/Maintenance Procedures |             |                             |              |        |           |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |                  |                                  |                                                                                                                                                                                                                                                            |             |                             |              |        |           |
| <p>Emissions of PCBs from the facility are greater than the value specified in Table 2 of 6 NYCRR Part 212-2.2. CWM has identified the following measures as TBACT:</p> <ul style="list-style-type: none"> <li>◦ Operation of stabilization facility baghouses in accordance with Operations &amp; Maintenance Manual.</li> <li>◦ Daily inspection (see Attachment F of Part 373 Sitewide RCRA permit) for visual verification that no dust is being emitted from the stabilization facility baghouse stacks or building doors.</li> <li>◦ Implementation of a 140,000 TPY permit cap limit for the maximum amount of waste material that can be stabilized at the facility in a given year. CWM will track total waste processed and estimated emissions from the stabilization facility .</li> <li>◦ Maintain the hours of operation at eight hours per day from Monday through Saturday (the landfill and stabilization facility will not operate on Sundays).</li> <li>◦ The facility will only stabilize waste materials that are less than 500 ppm VOCs according to 6 NYCRR Part 373-2.29.</li> <li>◦ Maintain the daily working face region to a maximum of 1.7 acres.</li> <li>◦ Application of Daily Cover of the landfill in accordance with the Part 373 Permit over the working face region daily and continuously maintained over the active/non-working face waste region (i.e. Interim Area).</li> <li>◦ Installation a synthetic liner as part of the final cover system in accordance with the Part 373 Permit after areas reach final waste grades.</li> <li>◦ Implementation of a facility perimeter monitoring program for PCBs (when RMU-2 is operational).</li> <li>◦ Stack testing demonstration requirement for the stabilization facility within the permit (when RMU-2 is operational).</li> </ul> <p>A modeling analysis for PCB confirmed that the maximum ground-level concentration will not exceed the annual guidance concentration (AGC) published under DAR-1. The facility will calculate PCB emissions (for PCBs reported to be present in waste management and other site operations) on a 12-month rolling basis in order to demonstrate that emissions are less than 28.9 pounds per year. Records will be kept at the Site and provided upon request.</p> |                        |                  |                                  |                                                                                                                                                                                                                                                            |             |                             |              |        |           |
| Work Practice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        | Process Material |                                  |                                                                                                                                                                                                                                                            |             | Reference Test Method       |              |        |           |
| Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Code                   | Description      |                                  |                                                                                                                                                                                                                                                            |             |                             |              |        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                  |                                  |                                                                                                                                                                                                                                                            |             |                             |              |        |           |
| Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                  |                                  |                                                                                                                                                                                                                                                            |             | Manufacturer Name/Model No. |              |        |           |
| Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Description            |                  |                                  |                                                                                                                                                                                                                                                            |             |                             |              |        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                  |                                  |                                                                                                                                                                                                                                                            |             |                             |              |        |           |
| Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |                  |                                  | Limit Units                                                                                                                                                                                                                                                |             |                             |              |        |           |
| Upper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        | Lower            |                                  | Code                                                                                                                                                                                                                                                       | Description |                             |              |        |           |
| 28.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |                  |                                  | 1                                                                                                                                                                                                                                                          | lb per year |                             |              |        |           |
| Averaging Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |                  | Monitoring Frequency             |                                                                                                                                                                                                                                                            |             | Reporting Requirements      |              |        |           |
| Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Description            |                  | Code                             | Description                                                                                                                                                                                                                                                |             | Code                        | Description  |        |           |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12-Month Rolling Total |                  | 05                               | Monthly                                                                                                                                                                                                                                                    |             | 10                          | Upon Request |        |           |

Continuation Sheet 4 of 5

# New York State Department of Environmental Conservation

## Air Permit Application Form



| DEC ID |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|
| 9      | - | 2 | 9 | 3 | 4 | - | 0 | 0 | 0 | 2 | 2 |

### Section III - Facility Information

| Facility Compliance Certification (continuation)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                  |                                  |             |                                                                                                                                                                                                                                                            |                             |              |        |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------|----------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------|--------|-----------|
| Rule Citation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |                  |                                  |             |                                                                                                                                                                                                                                                            |                             |              |        |           |
| Title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Type                   | Part             | Subpart                          | Section     | Subdivision                                                                                                                                                                                                                                                | Paragraph                   | Subparagraph | Clause | Subclause |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NYCRR                  | 212              | 2.2                              |             |                                                                                                                                                                                                                                                            |                             |              |        |           |
| <input type="checkbox"/> Applicable Federal Requirement<br><input checked="" type="checkbox"/> State Only Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |                  | <input type="checkbox"/> Capping | CAS No.     |                                                                                                                                                                                                                                                            | Contaminant Name            |              |        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                  |                                  | 50-32-8     |                                                                                                                                                                                                                                                            | POM                         |              |        |           |
| Monitoring Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                  |                                  |             |                                                                                                                                                                                                                                                            |                             |              |        |           |
| <input type="checkbox"/> Continuous Emission Monitoring<br><input type="checkbox"/> Intermittent Emission Testing<br><input type="checkbox"/> Ambient Air Monitoring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |                  |                                  |             | <input type="checkbox"/> Monitoring of Process or Control Device Parameters as a Surrogate<br><input checked="" type="checkbox"/> Work Practice Involving Specific Operations<br><input checked="" type="checkbox"/> Record Keeping/Maintenance Procedures |                             |              |        |           |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |                  |                                  |             |                                                                                                                                                                                                                                                            |                             |              |        |           |
| <p>Emissions of POM from the facility are greater than the value specified in Table 2 of 6 NYCRR Part 212-2.2. CWM has identified the following measures as TBACT:</p> <ul style="list-style-type: none"> <li>◦ Operation of stabilization facility baghouses in accordance with Operations &amp; Maintenance Manual</li> <li>◦ Daily inspection (see Attachment F of Part 373 Sitewide RCRA permit) for visual verification that no dust is being emitted from the stabilization facility baghouse stacks or building doors.</li> <li>◦ Implementation of a 140,000 TPY permit cap limit for the maximum amount of waste material that can be stabilized at the facility in a given year. CWM will track total waste processed and estimated emissions from the stabilization facility.</li> <li>◦ Maintain the hours of operation at eight hours per day from Monday through Saturday (the landfill and stabilization facility will not operate on Sundays).</li> <li>◦ The facility will only stabilize waste materials that are less than 500 ppm VOCs according to 6 NYCRR Part 373-2.29.</li> <li>◦ Maintain the daily working face region to a maximum of 1.7 acres.</li> <li>◦ Application of Daily Cover of the landfill in accordance with the Part 373 Permit over the working face region daily and continuously maintained over the active/non-working face waste region (i.e. Interim Area).</li> <li>◦ Installation a synthetic liner as part of the final cover system in accordance with the Part 373 Permit after areas reach final waste grades.</li> <li>◦ Implementation of a facility perimeter monitoring program for PCBs (when RMU-2 is operational).</li> <li>◦ Stack testing demonstration requirement for the stabilization facility within the permit (when RMU-2 is operational).</li> </ul> <p>A modeling analysis for POM confirmed that the maximum ground-level concentration will not exceed the annual guidance concentration (AGC) published under DAR-1. The facility will calculate POM emissions (for POM reported to be present in waste management and other site operations) on a 12-month rolling basis in order to demonstrate that emissions are less than 146.4 pounds per year. Records will be kept at the Site and provided upon request.</p> |                        |                  |                                  |             |                                                                                                                                                                                                                                                            |                             |              |        |           |
| Work Practice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        | Process Material |                                  |             |                                                                                                                                                                                                                                                            | Reference Test Method       |              |        |           |
| Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Code                   | Description      |                                  |             |                                                                                                                                                                                                                                                            |                             |              |        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                  |                                  |             |                                                                                                                                                                                                                                                            |                             |              |        |           |
| Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |                  |                                  |             |                                                                                                                                                                                                                                                            | Manufacturer Name/Model No. |              |        |           |
| Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Description            |                  |                                  |             |                                                                                                                                                                                                                                                            |                             |              |        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                  |                                  |             |                                                                                                                                                                                                                                                            |                             |              |        |           |
| Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |                  |                                  |             | Limit Units                                                                                                                                                                                                                                                |                             |              |        |           |
| Upper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        | Lower            |                                  | Code        | Description                                                                                                                                                                                                                                                |                             |              |        |           |
| 146.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |                  |                                  | 1           | lb per year                                                                                                                                                                                                                                                |                             |              |        |           |
| Averaging Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                  | Monitoring Frequency             |             |                                                                                                                                                                                                                                                            | Reporting Requirements      |              |        |           |
| Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Description            |                  | Code                             | Description |                                                                                                                                                                                                                                                            | Code                        | Description  |        |           |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12-Month Rolling Total |                  | 05                               | Monthly     |                                                                                                                                                                                                                                                            | 10                          | Upon Request |        |           |

Continuation Sheet 5 of 5

# New York State Department of Environmental Conservation

## Air Permit Application



Department of  
Environmental  
Conservation

| DEC ID |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|
| 9      | - | 2 | 9 | 3 | 4 | - | 0 | 0 | 0 |
| 2      | 2 |   |   |   |   |   |   |   |   |

### Section IV - Emission Unit Information

| Emission Unit Description                                                                                                                                                                                                                                                                                                                      |   |   |   |   |   |   |   |  |  | <input type="checkbox"/> Continuation Sheet(s) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|--|--|------------------------------------------------|
| Emission Unit                                                                                                                                                                                                                                                                                                                                  | 2 | - | L | A | N | D | F |  |  |                                                |
| <p>Emission Unit 2-LANDF consists of landfill area RMU-2. This modification includes construction and operation of the RMU-2 Landfill. Emissions occur from paved/ unpaved roads, waste unloading and compacting, landfill cell construction and capping, cover diffusion, barometric pumping, and emissions from the active working face.</p> |   |   |   |   |   |   |   |  |  |                                                |

| Building Information |               |  |  |             | <input type="checkbox"/> Continuation Sheet(s) |             |
|----------------------|---------------|--|--|-------------|------------------------------------------------|-------------|
| Building ID          | Building Name |  |  | Length (ft) | Width (ft)                                     | Orientation |
|                      |               |  |  |             |                                                |             |
|                      |               |  |  |             |                                                |             |
|                      |               |  |  |             |                                                |             |
|                      |               |  |  |             |                                                |             |

| Emission Unit | Emission Unit Emissions Summary |          |                  |          | <input type="checkbox"/> Continuation Sheet(s) |
|---------------|---------------------------------|----------|------------------|----------|------------------------------------------------|
| -             |                                 |          |                  |          |                                                |
| CAS Number    | Contaminant Name                |          |                  |          |                                                |
|               |                                 |          |                  |          |                                                |
| ERP (lbs/yr)  | Potential to Emit               |          | Actual Emissions |          |                                                |
|               | (lbs/hr)                        | (lbs/yr) | (lbs/hr)         | (lbs/yr) |                                                |
|               |                                 |          |                  |          |                                                |
| CAS Number    | Contaminant Name                |          |                  |          |                                                |
|               |                                 |          |                  |          |                                                |
| ERP (lbs/yr)  | Potential to Emit               |          | Actual Emissions |          |                                                |
|               | (lbs/hr)                        | (lbs/yr) | (lbs/hr)         | (lbs/yr) |                                                |
|               |                                 |          |                  |          |                                                |
| CAS Number    | Contaminant Name                |          |                  |          |                                                |
|               |                                 |          |                  |          |                                                |
| ERP (lbs/yr)  | Potential to Emit               |          | Actual Emissions |          |                                                |
|               | (lbs/hr)                        | (lbs/yr) | (lbs/hr)         | (lbs/yr) |                                                |
|               |                                 |          |                  |          |                                                |
| CAS Number    | Contaminant Name                |          |                  |          |                                                |
|               |                                 |          |                  |          |                                                |
| ERP (lbs/yr)  | Potential to Emit               |          | Actual Emissions |          |                                                |
|               | (lbs/hr)                        | (lbs/yr) | (lbs/hr)         | (lbs/yr) |                                                |
|               |                                 |          |                  |          |                                                |

# New York State Department of Environmental Conservation

## Air Permit Application



Department of  
Environmental  
Conservation

| DEC ID |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|
| 9      | - | 2 | 9 | 3 | 4 | - | 0 | 0 | 0 | 2 |

| Emission Point Information |                  |                             |                      |                 |                                |                 | <input type="checkbox"/> Continuation Sheet(s) |
|----------------------------|------------------|-----------------------------|----------------------|-----------------|--------------------------------|-----------------|------------------------------------------------|
| Emission Point             |                  |                             |                      |                 |                                |                 |                                                |
| Ground Elevation (ft)      | Height (ft)      | Height Above Structure (ft) | Inside Diameter (in) | Exit Temp. (°F) | Cross Section                  |                 |                                                |
|                            |                  |                             |                      |                 | Length (in)                    | Width (in)      |                                                |
| Exit Velocity (FPS)        | Exit Flow (ACFM) | NYTM (E) (KM)               | NYTM (N) (KM)        | Building        | Distance to Property Line (ft) | Date of Removal |                                                |
|                            |                  |                             |                      |                 |                                |                 |                                                |
| Emission Point             |                  |                             |                      |                 |                                |                 |                                                |
| Ground Elevation (ft)      | Height (ft)      | Height Above Structure (ft) | Inside Diameter (in) | Exit Temp. (°F) | Cross Section                  |                 |                                                |
|                            |                  |                             |                      |                 | Length (in)                    | Width (in)      |                                                |
| Exit Velocity (FPS)        | Exit Flow (ACFM) | NYTM (E) (KM)               | NYTM (N) (KM)        | Building        | Distance to Property Line (ft) | Date of Removal |                                                |
|                            |                  |                             |                      |                 |                                |                 |                                                |
| Emission Point             |                  |                             |                      |                 |                                |                 |                                                |
| Ground Elevation (ft)      | Height (ft)      | Height Above Structure (ft) | Inside Diameter (in) | Exit Temp. (°F) | Cross Section                  |                 |                                                |
|                            |                  |                             |                      |                 | Length (in)                    | Width (in)      |                                                |
| Exit Velocity (FPS)        | Exit Flow (ACFM) | NYTM (E) (KM)               | NYTM (N) (KM)        | Building        | Distance to Property Line (ft) | Date of Removal |                                                |
|                            |                  |                             |                      |                 |                                |                 |                                                |

| Emission Source/Control Information |                       |                      |                   |                 |              |             |                                  | <input type="checkbox"/> Continuation Sheet(s) |
|-------------------------------------|-----------------------|----------------------|-------------------|-----------------|--------------|-------------|----------------------------------|------------------------------------------------|
| Emission Source                     |                       | Date of Construction | Date of Operation | Date of Removal | Control Type |             | Manufacturer's Name/Model Number |                                                |
| ID                                  | Type                  |                      |                   |                 | Code         | Description |                                  |                                                |
| R M U 0 2                           | I                     | TBD                  | TBD               |                 |              |             | RMU-2 Landfill                   |                                                |
| Design Capacity                     | Design Capacity Units |                      |                   | Waste Feed      |              | Waste Type  |                                  |                                                |
|                                     | Code                  | Description          |                   |                 | Code         | Description |                                  |                                                |
| 4,030,700                           | 93                    | Cubic Yards          |                   |                 |              |             |                                  |                                                |
| Emission Source                     |                       | Date of Construction | Date of Operation | Date of Removal | Control Type |             | Manufacturer's Name/Model Number |                                                |
| ID                                  | Type                  |                      |                   |                 | Code         | Description |                                  |                                                |
| F A C 0 5                           | I                     | TBD                  | TBD               |                 |              |             | Facultative Pond 5               |                                                |
| Design Capacity                     | Design Capacity Units |                      |                   | Waste Feed      |              | Waste Type  |                                  |                                                |
|                                     | Code                  | Description          |                   |                 | Code         | Description |                                  |                                                |
| 20,703,000                          | 18                    | Gallons per year     |                   |                 |              |             |                                  |                                                |
| Emission Source                     |                       | Date of Construction | Date of Operation | Date of Removal | Control Type |             | Manufacturer's Name/Model Number |                                                |
| ID                                  | Type                  |                      |                   |                 | Code         | Description |                                  |                                                |
|                                     |                       |                      |                   |                 |              |             |                                  |                                                |
| Design Capacity                     | Design Capacity Units |                      |                   | Waste Feed      |              | Waste Type  |                                  |                                                |
|                                     | Code                  | Description          |                   |                 | Code         | Description |                                  |                                                |
|                                     |                       |                      |                   |                 |              |             |                                  |                                                |

# New York State Department of Environmental Conservation

## Air Permit Application



Department of  
Environmental  
Conservation

| DEC ID                                                                                                                                                                                                                               |   |       |   |                    |   |             |   |                           |   |                |   |   |   |   |   |   |         |  |   |   |   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------|---|--------------------|---|-------------|---|---------------------------|---|----------------|---|---|---|---|---|---|---------|--|---|---|---|
| 9                                                                                                                                                                                                                                    | - | 2     | 9 | 3                  | 4 | -           | 0 | 0                         | 0 | 2              | 2 |   |   |   |   |   |         |  |   |   |   |
| Process Information                                                                                                                                                                                                                  |   |       |   |                    |   |             |   |                           |   |                |   |   |   |   |   |   |         |  |   |   |   |
| Emission Unit                                                                                                                                                                                                                        |   |       |   |                    |   |             |   |                           |   | 2              | - | L | A | N | D | F | Process |  | F | U | G |
| Process Description                                                                                                                                                                                                                  |   |       |   |                    |   |             |   |                           |   |                |   |   |   |   |   |   |         |  |   |   |   |
| Emissions occur from paved/ unpaved roads, waste unloading and compacting, landfill cell construction and capping, cover diffusion, barometric pumping, and emissions from the active working face.                                  |   |       |   |                    |   |             |   |                           |   |                |   |   |   |   |   |   |         |  |   |   |   |
| Source Classification Code (SCC)                                                                                                                                                                                                     |   |       |   | Total Throughput   |   |             |   | Throughput Quantity Units |   |                |   |   |   |   |   |   |         |  |   |   |   |
|                                                                                                                                                                                                                                      |   |       |   | Quantity/Hr        |   | Quantity/Yr |   | Code                      |   | Description    |   |   |   |   |   |   |         |  |   |   |   |
|                                                                                                                                                                                                                                      |   |       |   |                    |   | 500,000     |   | 38                        |   | Tons per year  |   |   |   |   |   |   |         |  |   |   |   |
| Confidential<br>Operating at Maximum Capacity                                                                                                                                                                                        |   |       |   | Operating Schedule |   |             |   | Building                  |   | Floor/Location |   |   |   |   |   |   |         |  |   |   |   |
|                                                                                                                                                                                                                                      |   |       |   | Hours/Day          |   | Days/Year   |   |                           |   |                |   |   |   |   |   |   |         |  |   |   |   |
|                                                                                                                                                                                                                                      |   |       |   | 8                  |   | 312         |   |                           |   |                |   |   |   |   |   |   |         |  |   |   |   |
| Emission Point Identifier(s)                                                                                                                                                                                                         |   |       |   |                    |   |             |   |                           |   |                |   |   |   |   |   |   |         |  |   |   |   |
|                                                                                                                                                                                                                                      |   |       |   |                    |   |             |   |                           |   |                |   |   |   |   |   |   |         |  |   |   |   |
| Emission Source/Control Identifier(s)                                                                                                                                                                                                |   |       |   |                    |   |             |   |                           |   |                |   |   |   |   |   |   |         |  |   |   |   |
| RMU02                                                                                                                                                                                                                                |   |       |   |                    |   |             |   |                           |   |                |   |   |   |   |   |   |         |  |   |   |   |
|                                                                                                                                                                                                                                      |   |       |   |                    |   |             |   |                           |   |                |   |   |   |   |   |   |         |  |   |   |   |
| Emission Unit                                                                                                                                                                                                                        |   |       |   |                    |   |             |   |                           |   | 2              | - | L | E | A | C | H | Process |  | L | E | 2 |
| Process Description                                                                                                                                                                                                                  |   |       |   |                    |   |             |   |                           |   |                |   |   |   |   |   |   |         |  |   |   |   |
| Process LE2 includes emissions from the collection, handling and storage of leachate from the newer landfills: SLF 12, RMU-1 and RMU-2. These units have lower levels of organics; no carbon canisters are present on storage tanks. |   |       |   |                    |   |             |   |                           |   |                |   |   |   |   |   |   |         |  |   |   |   |
| Source Classification Code (SCC)                                                                                                                                                                                                     |   |       |   | Total Throughput   |   |             |   | Throughput Quantity Units |   |                |   |   |   |   |   |   |         |  |   |   |   |
|                                                                                                                                                                                                                                      |   |       |   | Quantity/Hr        |   | Quantity/Yr |   | Code                      |   | Description    |   |   |   |   |   |   |         |  |   |   |   |
|                                                                                                                                                                                                                                      |   |       |   |                    |   |             |   |                           |   |                |   |   |   |   |   |   |         |  |   |   |   |
| Confidential<br>Operating at Maximum Capacity                                                                                                                                                                                        |   |       |   | Operating Schedule |   |             |   | Building                  |   | Floor/Location |   |   |   |   |   |   |         |  |   |   |   |
|                                                                                                                                                                                                                                      |   |       |   | Hours/Day          |   | Days/Year   |   |                           |   |                |   |   |   |   |   |   |         |  |   |   |   |
|                                                                                                                                                                                                                                      |   |       |   |                    |   |             |   |                           |   |                |   |   |   |   |   |   |         |  |   |   |   |
| Emission Point Identifier(s)                                                                                                                                                                                                         |   |       |   |                    |   |             |   |                           |   |                |   |   |   |   |   |   |         |  |   |   |   |
|                                                                                                                                                                                                                                      |   |       |   |                    |   |             |   |                           |   |                |   |   |   |   |   |   |         |  |   |   |   |
| Emission Source/Control Identifier(s)                                                                                                                                                                                                |   |       |   |                    |   |             |   |                           |   |                |   |   |   |   |   |   |         |  |   |   |   |
| SPIP2                                                                                                                                                                                                                                |   | LTNK2 |   |                    |   |             |   |                           |   |                |   |   |   |   |   |   |         |  |   |   |   |
|                                                                                                                                                                                                                                      |   |       |   |                    |   |             |   |                           |   |                |   |   |   |   |   |   |         |  |   |   |   |



# New York State Department of Environmental Conservation Air Permit Application



Department of  
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| DEC ID |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|
| 9      | - | 2 | 9 | 3 | 4 | - | 0 | 0 | 2 | 2 |

| Process Emissions Summary |                  |                  |  |          |                |                                  |                  |              |                    | Continuation Sheet(s) |  |  |  |
|---------------------------|------------------|------------------|--|----------|----------------|----------------------------------|------------------|--------------|--------------------|-----------------------|--|--|--|
| Emission Unit             | -                |                  |  |          |                |                                  |                  |              |                    | Process               |  |  |  |
| CAS Number                | Contaminant Name |                  |  |          | % Thruput      | % Capture                        | % Control        | ERP (lbs/hr) | ERP How Determined |                       |  |  |  |
|                           |                  |                  |  |          |                |                                  |                  |              |                    |                       |  |  |  |
| Potential to Emit         |                  |                  |  |          | Standard Units | Potential to Emit How Determined | Actual Emissions |              |                    |                       |  |  |  |
| (lbs/hr)                  | (lbs/yr)         | (standard units) |  | (lbs/hr) |                |                                  | (lbs/yr)         |              |                    |                       |  |  |  |
|                           |                  |                  |  |          |                |                                  |                  |              |                    |                       |  |  |  |
| Emission Unit             | -                |                  |  |          |                |                                  |                  |              |                    | Process               |  |  |  |
| CAS Number                | Contaminant Name |                  |  |          | % Thruput      | % Capture                        | % Control        | ERP (lbs/hr) | ERP How Determined |                       |  |  |  |
|                           |                  |                  |  |          |                |                                  |                  |              |                    |                       |  |  |  |
| Potential to Emit         |                  |                  |  |          | Standard Units | Potential to Emit How Determined | Actual Emissions |              |                    |                       |  |  |  |
| (lbs/hr)                  | (lbs/yr)         | (standard units) |  | (lbs/hr) |                |                                  | (lbs/yr)         |              |                    |                       |  |  |  |
|                           |                  |                  |  |          |                |                                  |                  |              |                    |                       |  |  |  |
| Emission Unit             | -                |                  |  |          |                |                                  |                  |              |                    | Process               |  |  |  |
| CAS Number                | Contaminant Name |                  |  |          | % Thruput      | % Capture                        | % Control        | ERP (lbs/hr) | ERP How Determined |                       |  |  |  |
|                           |                  |                  |  |          |                |                                  |                  |              |                    |                       |  |  |  |
| Potential to Emit         |                  |                  |  |          | Standard Units | Potential to Emit How Determined | Actual Emissions |              |                    |                       |  |  |  |
| (lbs/hr)                  | (lbs/yr)         | (standard units) |  | (lbs/hr) |                |                                  | (lbs/yr)         |              |                    |                       |  |  |  |
|                           |                  |                  |  |          |                |                                  |                  |              |                    |                       |  |  |  |

| Emission Source Emissions Summary |                  |                  |  |          |                |                                  |                  |              |                    | Continuation Sheet(s) |  |  |  |
|-----------------------------------|------------------|------------------|--|----------|----------------|----------------------------------|------------------|--------------|--------------------|-----------------------|--|--|--|
| Emission Source                   |                  |                  |  |          |                |                                  |                  |              |                    | Process               |  |  |  |
| CAS Number                        | Contaminant Name |                  |  |          | % Thruput      | % Capture                        | % Control        | ERP (lbs/hr) | ERP How Determined |                       |  |  |  |
|                                   |                  |                  |  |          |                |                                  |                  |              |                    |                       |  |  |  |
| Potential to Emit                 |                  |                  |  |          | Standard Units | Potential to Emit How Determined | Actual Emissions |              |                    |                       |  |  |  |
| (lbs/hr)                          | (lbs/yr)         | (standard units) |  | (lbs/hr) |                |                                  | (lbs/yr)         |              |                    |                       |  |  |  |
|                                   |                  |                  |  |          |                |                                  |                  |              |                    |                       |  |  |  |
| Emission Source                   |                  |                  |  |          |                |                                  |                  |              |                    | Process               |  |  |  |
| CAS Number                        | Contaminant Name |                  |  |          | % Thruput      | % Capture                        | % Control        | ERP (lbs/hr) | ERP How Determined |                       |  |  |  |
|                                   |                  |                  |  |          |                |                                  |                  |              |                    |                       |  |  |  |
| Potential to Emit                 |                  |                  |  |          | Standard Units | Potential to Emit How Determined | Actual Emissions |              |                    |                       |  |  |  |
| (lbs/hr)                          | (lbs/yr)         | (standard units) |  | (lbs/hr) |                |                                  | (lbs/yr)         |              |                    |                       |  |  |  |
|                                   |                  |                  |  |          |                |                                  |                  |              |                    |                       |  |  |  |
| Emission Source                   |                  |                  |  |          |                |                                  |                  |              |                    | Process               |  |  |  |
| CAS Number                        | Contaminant Name |                  |  |          | % Thruput      | % Capture                        | % Control        | ERP (lbs/hr) | ERP How Determined |                       |  |  |  |
|                                   |                  |                  |  |          |                |                                  |                  |              |                    |                       |  |  |  |
| Potential to Emit                 |                  |                  |  |          | Standard Units | Potential to Emit How Determined | Actual Emissions |              |                    |                       |  |  |  |
| (lbs/hr)                          | (lbs/yr)         | (standard units) |  | (lbs/hr) |                |                                  | (lbs/yr)         |              |                    |                       |  |  |  |
|                                   |                  |                  |  |          |                |                                  |                  |              |                    |                       |  |  |  |

# New York State Department of Environmental Conservation

## Air Permit Application



| DEC ID |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|
| 9      | - | 2 | 9 | 3 | 4 | - | 0 | 0 | 0 | 2 | 2 |

| Emission Unit | Emission Point | Process | Emission Source | Emission Unit Applicable Federal Requirements |      |      |         |         |         |        | Continuation Sheet(s) |     |        |
|---------------|----------------|---------|-----------------|-----------------------------------------------|------|------|---------|---------|---------|--------|-----------------------|-----|--------|
|               |                |         |                 | Title                                         | Type | Part | Subpart | Section | Subdiv. | Parag. | Subparag.             | Cl. | Subcl. |
|               |                |         |                 |                                               |      |      |         |         |         |        |                       |     |        |
|               |                |         |                 |                                               |      |      |         |         |         |        |                       |     |        |
|               |                |         |                 |                                               |      |      |         |         |         |        |                       |     |        |
|               |                |         |                 |                                               |      |      |         |         |         |        |                       |     |        |

| Emission Unit | Emission Point | Process | Emission Source | Emission Unit State Only Requirements |      |      |         |         |         |        | Continuation Sheet(s) |     |        |
|---------------|----------------|---------|-----------------|---------------------------------------|------|------|---------|---------|---------|--------|-----------------------|-----|--------|
|               |                |         |                 | Title                                 | Type | Part | Subpart | Section | Subdiv. | Parag. | Subparag.             | Cl. | Subcl. |
|               |                |         |                 |                                       |      |      |         |         |         |        |                       |     |        |
|               |                |         |                 |                                       |      |      |         |         |         |        |                       |     |        |
|               |                |         |                 |                                       |      |      |         |         |         |        |                       |     |        |
|               |                |         |                 |                                       |      |      |         |         |         |        |                       |     |        |

| Emission Unit Compliance Certification |                |         |                 |                        |             |                  |              |        |           | <input type="checkbox"/> Continuation Sheet(s) |
|----------------------------------------|----------------|---------|-----------------|------------------------|-------------|------------------|--------------|--------|-----------|------------------------------------------------|
| Rule Citation                          |                |         |                 |                        |             |                  |              |        |           |                                                |
| Title                                  | Type           | Part    | Subpart         | Section                | Subdivision | Paragraph        | Subparagraph | Clause | Subclause |                                                |
|                                        |                |         |                 |                        |             |                  |              |        |           |                                                |
| Applicable Federal Requirement         |                |         |                 | State Only Requirement |             |                  | Capping      |        |           |                                                |
| Emission Unit                          | Emission Point | Process | Emission Source | CAS Number             |             | Contaminant Name |              |        |           |                                                |
|                                        |                |         |                 |                        |             |                  |              |        |           |                                                |

| Monitoring Information         |                                                                                              |
|--------------------------------|----------------------------------------------------------------------------------------------|
| Continuous Emission Monitoring | <input type="checkbox"/> Monitoring of a Process or Control Device Parameters as a Surrogate |
| Intermittent Emission Testing  | <input type="checkbox"/> Work Practice Involving Specific Operations                         |
| Ambient Air Monitoring         | Record Keeping/Maintenance Procedures                                                        |

| Compliance Activity Description |
|---------------------------------|
|                                 |

| Work Practice<br>Type Code | Process Material |                      |             | Reference Test Method            |             |
|----------------------------|------------------|----------------------|-------------|----------------------------------|-------------|
|                            | Code             | Description          |             |                                  |             |
|                            |                  |                      |             |                                  |             |
| Monitored Parameter        |                  |                      |             | Manufacturer's Name/Model Number |             |
| Code                       | Description      |                      |             |                                  |             |
|                            |                  |                      |             |                                  |             |
| Limit                      |                  | Limit Units          |             |                                  |             |
| Upper                      | Lower            | Code                 | Description |                                  |             |
|                            |                  |                      |             |                                  |             |
| Averaging Method           |                  | Monitoring Frequency |             | Reporting Requirements           |             |
| Code                       | Description      | Code                 | Description | Code                             | Description |
|                            |                  |                      |             |                                  |             |



**NEW YORK**  
STATE OF  
OPPORTUNITY

| DEC ID |   |   |   |   |   |   |   |   |   |   |   |
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| 9      | - | 2 | 9 | 3 | 4 | - | 0 | 0 | 0 | 2 | 2 |

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# New York State Department of Environmental Conservation

## Air Permit Application



Department of  
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| DEC ID |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|
| 9      | - | 2 | 9 | 3 | 4 | - | 0 | 0 | 0 | 2 | 2 |

### Request for Emission Reduction Credits ☐ Continuation Sheet(s)

|                 |  |  |  |  |  |
|-----------------|--|--|--|--|--|
| Emission Source |  |  |  |  |  |
|-----------------|--|--|--|--|--|

### Emission Reduction Description

|  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|

### Contaminant Emission Reduction Data

|                                                  |                  |  |  |  |  |              |        |
|--------------------------------------------------|------------------|--|--|--|--|--------------|--------|
| Baseline Period ____/____/____ to ____/____/____ |                  |  |  |  |  | Reduction    |        |
|                                                  |                  |  |  |  |  | Date         | Method |
|                                                  |                  |  |  |  |  | ERC (lbs/yr) |        |
|                                                  |                  |  |  |  |  | Netting      | Offset |
| CAS Number                                       | Contaminant Name |  |  |  |  |              |        |
|                                                  |                  |  |  |  |  |              |        |
|                                                  |                  |  |  |  |  |              |        |
|                                                  |                  |  |  |  |  |              |        |

### Facility to Use Future Reduction

|                      |  |  |  |  |  |                |  |  |     |   |  |
|----------------------|--|--|--|--|--|----------------|--|--|-----|---|--|
| Name                 |  |  |  |  |  | Application ID |  |  |     |   |  |
|                      |  |  |  |  |  | -              |  |  |     | - |  |
| Location Address     |  |  |  |  |  |                |  |  |     |   |  |
| City/ Town / Village |  |  |  |  |  | State          |  |  | Zip |   |  |

### Use of Emission Reduction Credits ☐ Continuation Sheet(s)

|                 |  |  |  |  |  |
|-----------------|--|--|--|--|--|
| Emission Source |  |  |  |  |  |
|-----------------|--|--|--|--|--|

### Proposed Project Description

|  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|

### Contaminant Emissions Increase Data

|            |                  |  |  |  |  |                                     |  |
|------------|------------------|--|--|--|--|-------------------------------------|--|
| CAS Number | Contaminant Name |  |  |  |  | Project Emission Potential (lbs/yr) |  |
|            |                  |  |  |  |  |                                     |  |

### Statement of Compliance

All facilities under the ownership of this "owner/firm" are operating in compliance with all applicable requirements and state regulations including any compliance certification requirements under Section 114(a)(3) of the Clean Air Act Amendments of 1990, or are meeting the schedule of a consent order.

### Source of Emission Reduction Credit - Facility

|                      |  |  |  |  |  |           |  |  |     |   |  |
|----------------------|--|--|--|--|--|-----------|--|--|-----|---|--|
| Name                 |  |  |  |  |  | Permit ID |  |  |     |   |  |
|                      |  |  |  |  |  | -         |  |  |     | - |  |
| Location Address     |  |  |  |  |  |           |  |  |     |   |  |
| City/ Town / Village |  |  |  |  |  | State     |  |  | Zip |   |  |

|                 |            |                  |  |  |  |              |  |
|-----------------|------------|------------------|--|--|--|--------------|--|
| Emission Source | CAS Number | Contaminant Name |  |  |  | ERC (lbs/yr) |  |
|                 |            |                  |  |  |  |              |  |
|                 |            |                  |  |  |  |              |  |
|                 |            |                  |  |  |  |              |  |

# New York State Department of Environmental Conservation

## Air Permit Application



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| DEC ID |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|
| 9      | - | 2 | 9 | 3 | 4 | - | 0 | 0 | 0 | 2 | 2 |

| Supporting Documentation and Attachments                                               |                  |
|----------------------------------------------------------------------------------------|------------------|
| Required Supporting Documentation                                                      | Date of Document |
| List of Exempt Activities (attach form)                                                | Not Applicable   |
| <input checked="" type="checkbox"/> Plot Plan                                          | May 23, 2017     |
| <input checked="" type="checkbox"/> Process Flow Diagram                               | May 23, 2017     |
| <input checked="" type="checkbox"/> Methods Used to Determine Compliance (attach form) | Attached         |
| <input checked="" type="checkbox"/> Emissions Calculations                             | May 23, 2017     |
| Optional Supporting Documentation                                                      | Date of Document |
| <input checked="" type="checkbox"/> Air Quality Model                                  | June 2, 2017     |
| Confidentiality Justification                                                          |                  |
| <input checked="" type="checkbox"/> Ambient Air Quality Monitoring Plan or Reports     | May 23, 2017     |
| Stack Test Protocol                                                                    |                  |
| Stack Test Report                                                                      |                  |
| Continuous Emissions Monitoring Plan                                                   |                  |
| Lowest Achievable Emission Rate (LAER) Demonstration                                   |                  |
| Best Available Control Technology (BACT) Demonstration                                 |                  |
| Reasonably Available Control Technology (RACT) Demonstration                           |                  |
| Toxic Impact Assessment (TIA)                                                          |                  |
| Environmental Rating Demonstration                                                     |                  |
| Operational Flexibility Protocol/Description of Alternate Operating Scenarios          |                  |
| Title IV Permit Application                                                            |                  |
| Emission Reduction Credit (ERC) Quantification (attach form)                           |                  |
| Baseline Period Demonstration                                                          |                  |
| Use of Emission Reduction Credits (attach form)                                        |                  |
| Analysis of Contemporaneous Emissions Increase/Decrease                                |                  |
| Other Supporting Documentation                                                         | Date of Document |
| TBACT Demonstration                                                                    | May 23, 2017     |
|                                                                                        |                  |
|                                                                                        |                  |
|                                                                                        |                  |
|                                                                                        |                  |
|                                                                                        |                  |
|                                                                                        |                  |
|                                                                                        |                  |
|                                                                                        |                  |

**New York State Department of Environmental Conservation**  
**Air Permit Application**

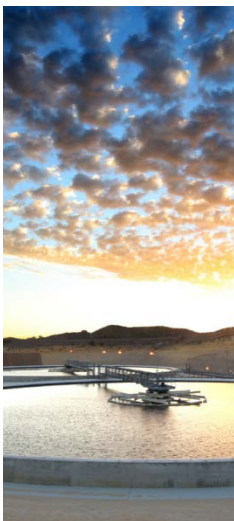


| DEC ID |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|
| 9      | - | 2 | 9 | 3 | 4 | - | 0 | 0 | 0 | 2 | 2 |

| Methods Used to Determine Compliance |                        |                                                                                             |                         |
|--------------------------------------|------------------------|---------------------------------------------------------------------------------------------|-------------------------|
| Emission Unit ID                     | Applicable Requirement | Method Used to Determine Compliance                                                         | Compliance Date         |
| 1-LANDF                              | 6 NYCRR Part 373       | Employ best management practices specified in the Facility's 'Fugitive Dust Control Plan.'  | Upon issuance of permit |
| Facility                             | 6 NYCRR 201-7          | Calculation of 12-Month Rolling Emissions of VOC, Total HAPs, and individual speciated HAPs | Upon issuance of permit |
| Facility                             | 6 NYCRR Part 212       | Calculation of 12-Month Rolling Emissions of HTACs                                          | Upon issuance of permit |
| Facility                             | 6 NYCRR Part 212       | Modeling analysis and TBACT Demonstration                                                   | 6/2/2017                |
|                                      |                        |                                                                                             |                         |
|                                      |                        |                                                                                             |                         |
|                                      |                        |                                                                                             |                         |
|                                      |                        |                                                                                             |                         |
|                                      |                        |                                                                                             |                         |
|                                      |                        |                                                                                             |                         |
|                                      |                        |                                                                                             |                         |

**ENCLOSURE NO. 3**  
**REVISED AIR QUALITY MODELING REPORT FOR RMU-2**

July 12, 2017



# Air Quality Modeling Report

CWM Chemical Services, LLC  
Model City, New York

**GHD** | 2055 Niagara Falls Boulevard Niagara Falls New York 14304 USA  
080335 | Report No 10 | July 2017





## Table of Contents

|       |                                  |   |
|-------|----------------------------------|---|
| 1.    | Introduction.....                | 1 |
| 2.    | Facility Overview .....          | 2 |
| 2.1   | Facility Description.....        | 2 |
| 2.2   | Land Use Classifications.....    | 3 |
| 2.3   | Topography.....                  | 3 |
| 3.    | Modeling Methodology .....       | 3 |
| 3.1   | Modeled Compounds.....           | 4 |
| 3.2   | Facility Source Inventory.....   | 5 |
| 3.2.1 | Existing Landfill Areas .....    | 5 |
| 3.2.2 | Future Landfill Areas .....      | 5 |
| 3.2.3 | Stabilization Facility .....     | 6 |
| 3.2.4 | Facultative Ponds .....          | 6 |
| 3.3   | Modeling Input Parameters.....   | 6 |
| 3.4   | Building Downwash Analysis ..... | 7 |
| 3.5   | Meteorological Data .....        | 7 |
| 3.6   | Modeled Receptors.....           | 7 |
| 3.7   | Terrain Considerations.....      | 7 |
| 4.    | Conclusion.....                  | 8 |

## Figure Index

|          |                                                        |
|----------|--------------------------------------------------------|
| Figure 1 | Facility Emission Source Locations-Landfill Areas      |
| Figure 2 | Facility Emission Source Locations-Buildings and Tanks |
| Figure 3 | Facility Source Locations (AWT Building)               |
| Figure 4 | Facility Source Locations (Water Treatment Building)   |

## Table Index

|          |                                                     |
|----------|-----------------------------------------------------|
| Table 1A | Summary of Modeled Emission Rates-Existing Facility |
| Table 1B | Summary of Modeled Emission Rates-RMU-2 Project     |
| Table 2  | Summary of Modeling Input Parameters                |
| Table 3  | Summary of Modeling Results                         |



## 1. Introduction

This document details the air quality modeling procedures that were used in order to demonstrate that the CWM Chemical Services, LLC (CWM) Model City Facility (Facility or Site) is in compliance with the provisions of 6 NYCRR Part 212. A modeling protocol was submitted to the New York State Department of Environmental Conservation (NYSDEC) on February 3, 2017. An approval letter, with specified conditions, was subsequently provided by NYSDEC on March 3, 2017.

The CWM facility is an existing commercial hazardous waste treatment, storage, and disposal facility (TSDF) located in Model City, Niagara County, New York. CWM is proposing to expand the facility to include the new RMU-2 area. The area encompassed by the proposed RMU-2 area is approximately 43.5 acres and will contain a total of six cells. The proposed waste area of RMU-2 is approximately 38.5 acres. The RMU-2 project also includes the replacement of existing facultative (Fac) ponds, namely Fac Ponds 3 and 8. Fac Pond 8 has been closed in accordance with the Part 373 Permit. RMU 2 will include the areas currently occupied by Fac Ponds 3 and 8. Proposed Fac Pond 5 will be constructed to replace the storage capacity for treated wastewater lost by the closure of Fac Ponds 3 and 8.

The CWM facility and proposed RMU-2 area are located in an attainment zone for all pollutants with the exception of ozone (since it is located in the Ozone Transport Region), and is currently permitted under NYSDEC Air State Facility Permit No. 9-2934-00022/00233. The facility will continue to hold an Air State Facility Permit since CWM is proposing to cap potential emissions below the Title V thresholds for all pollutants.

The CWM Model City Facility will consist of the following upon expansion:

- CWM Model City Facility: Existing Landfill Areas (SLF1-6, SLF-7, SLF-10, SLF-11, SLF-12, RMU-1) including leachate standpipes, Stabilization Facility, Aqueous Water Treatment Facility (AWTF), Facultative Pond 1/2, and Facultative Pond 3 (to be closed).
- Proposed RMU-2 Area: RMU-2 Area including leachate standpipes and Facultative Pond 5.

NYSDEC has requested that CWM demonstrate compliance with 6 NYCRR Part 212 for the existing facility as well as the proposed RMU-2 area.

The modeling report has been developed based on the following documentation:

- DAR-10/NYSDEC Guidelines on Dispersion Modeling Procedures for Air Quality Impact Analysis (May 9, 2006)
- Appendix W of 40 CFR Part 51, USEPA (November, 2005)
- Ambient Monitoring Guidelines for PSD, USEPA (May, 1997)
- New Source Review Workshop Manual, USEPA (Draft, October, 1990)



## 2. Facility Overview

### 2.1 Facility Description

The CWM Model City Facility is located within the Erie-Niagara Region in the western section of New York State. The facility is situated on the boundary between the Towns of Lewiston and Porter in Niagara County. All hazardous waste management units are located within the Town of Porter. The facility's operations are authorized by a RCRA hazardous waste permit issued by NYSDEC and a TSCA (PCB) Approval issued by USEPA. The facility uses a number of processes for the proper storage, treatment and disposal of a variety of liquid and solid organic and inorganic hazardous waste and industrial non-hazardous waste. Storage, treatment and disposal capabilities include an aqueous waste treatment system, which includes phase separation, oxidation/reduction, neutralization, solids precipitation and filtration, biological treatment and carbon filtration. The treated effluent is stored in a facultative (fac) pond, qualified and discharged pursuant to the facility's State Pollutant Discharge Elimination System (SPDES) Permit. Other operations include waste stabilization; secure landfilling of approved solid waste, including PCBs; solvent and fuel blending processes; RCRA and TSCA container storage and transfer; landfill leachate collection, storage and treatment. As a RCRA permitted TSDF, CWM is subject to the hazardous waste regulations in 6 NYCRR Parts 370-376. This includes several regulations focused on minimizing the release of hazardous waste contaminants to the air: 373-2.28, Air Emission Standards for Equipment Leaks, and 373-2.29, Air Emission Standards for Tanks, Containers and Surface Impoundments.

The Model City Facility began operations in 1971 as ChemTrol Pollution Services, Inc. Activities included fuels blending of waste oils, distillation of spent solvents, aqueous waste treatment, and land disposal. In 1973, the stock of ChemTrol was purchased by SCA Services, Inc. The ChemTrol name was retained until late 1978 at which time the corporate name changed to SCA Chemical Waste Services, Inc., and in 1981, was renamed SCA Chemical Services, Inc.

In October 1984, WM Acquiring Corp., owned jointly by Waste Management, Inc. (WMI), and Genstar, Inc., acquired SCA Services, Inc., of which SCA Chemical Services, Inc. was a subsidiary. Through a corporate reorganization in October 1986, SCA Chemical Services, Inc. became a wholly owned subsidiary of Chemical Waste Management, Inc. (CWM), itself majority-owned by Waste Management, Inc. In July 1988, the corporate name SCA Chemical Services, Inc. was changed to CWM Chemical Services, Inc. CWM Chemical Services, Inc., became a limited liability company in January 1998 and became CWM Chemical Services, LLC. CWM Chemical Services, LLC, is the owner and operator of the Model City Facility.

The fuels blending tanks and solvent distillation operation were eliminated in the 1980s. The Aqueous Treatment facility continues to operate. The following summarizes the closed and active landfill units at the Facility:

| Landfill Area | Years of Operation | Status |
|---------------|--------------------|--------|
| SLF 1-6       | 1971-1978          | Closed |
| SLF 7         | 1978-1983          | Closed |
| SLF 10        | 1982-1984          | Closed |



| Landfill Area | Years of Operation | Status             |
|---------------|--------------------|--------------------|
| SLF 11        | 1984-1990          | Closed             |
| SLF 12        | 1990-1994          | Closed             |
| RMU-1         | 1994-2015          | Closed (Nov. 2016) |

It should be noted that the Facility's most recently operated landfill (RMU-1) reached its capacity and received its final volume of hazardous wastes on November 12, 2015. From 1997 through 2013, final cover was constructed over the waste area of RMU-1 (approximately 31.8 acres) in accordance with the Part 373 Permit. A minimum of 12-inches of intermediate soil cover was installed over the remaining active area (approximately 7.7 acres) in 2015. In accordance with the Part 373 Permit, RMU-1 was completely closed by November 6, 2016 through the installation of final cover over the remaining 7.7 acres.

## 2.2 Land Use Classifications

The Model City Facility is located in a predominantly rural area on the border between the Towns of Lewiston and Porter. The surrounding area is undeveloped and sparsely populated, with an average of one person per 2 acres of land.

The nearest population concentrations are the Village of Lewiston (population 2,701; 2010 census), approximately 7 miles to the southwest; the Village of Youngstown (population 1,935; 2010 census), approximately 3 miles to the northwest and the Hamlet of Ransomville (population 1,419; 2010 census), approximately 2 miles to the east. Land use in the vicinity of the Model City Facility is primarily residential, agricultural, government services and military.

## 2.3 Topography

The topography around the Proposed Site is relatively flat. The base elevation of the Site is approximately 320 feet AMSL. However, the topography of the surrounding land ranges from approximately 308 feet AMSL to 338 feet AMSL.

# 3. Modeling Methodology

The modeling was conducted using the most recent executable versions of the USEPA AERMOD modeling system.

- AERMET, version 16216
- AERSURFACE, version 13016
- AERMAP, version 11103
- AERMOD, version 16216r
- BPIP-PRIME, version 04274

Modeling was facilitated using the Lakes Environmental graphical user interface AERMOD View (version 9.3.0).



### 3.1 Modeled Compounds

CWM is proposing a facility-wide annual 212 emission cap for each of the high toxicity air contaminant (HTAC) compounds listed in Table 2 of 6 NYCRR Part 212-2.2, with the exception of polycyclic organic matter (POM) and polychlorinated biphenyls (PCBs). Therefore, this modeling demonstration includes a comparison of the maximum modeled ground-level concentration (GLC) for POM and PCBs with each of their respective annual guideline concentrations (AGC) presented in the NYSDEC DAR-1 policy document<sup>1</sup>. For modeling purposes, PCB emission rates for sources with total PCB concentrations, but without specific Aroclor data were broken down into the following proportions based on the average of all closed landfills:

- i. Aroclor 1242 - 35.85 percent
- ii. Aroclor 1254 - 33.64 percent
- iii. Aroclor 1260 - 30.51 percent

This modeling demonstration also includes the following non-HTAC compounds that potentially exceed an annual emission rate of 100 lb/year:

- Xylenes
- Toluene
- Methylene Chloride
- Methyl ethyl ketone

VOCs and HAPs that are not considered HTACs under 6 NYCRR Part 212 (not listed in Table 2 of 6 NYCRR Part 212) and that have the potential to emit greater than 100 lb/year from stabilization will be limited to a short-term emission rate of 10 pounds per hour (since they are considered category B compounds). The 10 pound per hour limit is the maximum short-term emission rate that would not require the consideration of air controls (for category B compounds according to Table 4 of 6 NYCRR Part 212). In addition, compounds that are hazardous air pollutants (HAPS) will be limited to an annual emission rate of 10 tons per year (TPY).

The maximum modeled ground-level concentration for the non-HTAC compounds listed above were compared with the short-term guidance concentrations (SGC) and AGC values presented in the NYSDEC DAR-1 policy document.

Emission rates for POM, PCBs, and the aforementioned non-HTAC compounds are presented in Tables 1A (Existing Facility) and Table 1B (RMU-2 Project). The emission rates presented in Tables 1A and 1B were derived from the Emission Inventories submitted for the Existing Facility and the RMU-2 Landfill, respectively, on May 23, 2017.

Since the proposed PM-10 emission increase is less than 15 TPY, in accordance with NYSDEC's CP-33, no further modeling for PM was required.

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<sup>1</sup> The NYSDEC DAR-1 document does not list short-term guidance concentration (SGC) values for POM or PCBs.



## 3.2 Facility Source Inventory

This Section provides a summary of sources included in the modeling evaluation. A summary of the source inventory parameters is provided in Table 2. A plan site view of all emission sources is provided as Figures 1 through 4. It should be noted that the AWTF was not included in the modeling since tanks with the potential to contain > 500 ppm organics are already equipped with carbon canisters to control VOCs and/or PCBs from working and breathing losses. In addition, the modeling of leak/spills from drums is difficult to model since they are not planned events, can occur at various locations across the facility, and generally would occur within a building. Spills are not planned. Tanks and containers are managed in accordance with 373-2.29, to minimize potential for air emissions. Work practices and best management procedures are employed to prevent spills. Therefore, a permit condition that emphasizes the use of best practices for the containment/prevention of leaking containers/drums at the facility is a more suitable option.

### 3.2.1 Existing Landfill Areas

The following closed landfill areas were included in the modeling analysis:

- SLF 1-6
- SLF-7
- SLF-10
- SLF-11
- SLF-12
- RMU-1

Emissions for each of the landfill areas were calculated in the Air State Facility Permit Application and are based on the following:

- Landfill cover diffusion
- Barometric pumping
- Evaporation from leachate collection standpipes

Source inventory parameters for the existing landfill areas are provided in Table 2.

### 3.2.2 Future Landfill Areas

The following proposed landfill areas were included in the modeling analysis:

- RMU-2

Emissions for the RMU-2 area were calculated in the Air State Facility Permit Application and are based on the following:

- Landfill cover diffusion
- Barometric pumping
- Evaporation from leachate collection standpipes



- Active face emissions

It should be noted that emissions from the stormwater detention basin were not included in the modeling analysis. Emissions from the RMU-2 Landfill have already been calculated for diffusion through the cover, evaporation from the leachate standpipes and emissions from the active working face and are assumed to be occurring continuously throughout the year. Stormwater runoff passing over the surface of waste with cover applied, has minimal contact time allowing minimal transfer of constituents. The emissions from these constituents has already been accounted for in the cover diffusion calculation. In addition, collected stormwater above 1' depth will be pumped into the leachate collection system and processed at the Aqueous Water Treatment Facility (AWTF).

Source inventory parameters for the RMU-2 area are provided in Table 2.

### 3.2.3 Stabilization Facility

Emissions from the stabilization facility were calculated in the Air State Facility Permit Application and are based on a maximum value of 140,000 tons/year processed material. There are two baghouses that exhaust from the stabilization facility. Source inventory parameters for the stabilization facility are provided in Table 2.

### 3.2.4 Facultative Ponds

In order to obtain an estimate of emissions from the facultative ponds, one-half of the detection limit was assumed for each compound for a sample collected on December 2, 2015. Emissions from the facultative ponds were calculated using the mass balance approach presented as Equation 5-30 in the USEPA document *Air Emissions Models for Waste and Wastewater*, dated November 1994. PCB emissions from the ponds were conservatively estimated assuming a concentration of 200 nanograms per liter (Draft RMU-2 SPDES permit limit for internal outfall prior to discharge to the pond).

Fac Ponds 3 and 5 will not be used to store effluent from the aqueous waste treatment facility at the same time. The treated effluent in Fac Pond 3 will be discharged or transferred and the pond taken out of service for closure prior to starting the storage of treated effluent in Fac Pond 5. In addition, CWM is willing to accept a permit condition that prohibits the facility from discharging to Fac Pond 3 and Fac Pond 5 simultaneously. Therefore, the modeling analysis only includes Fac Pond 5 in addition to Fac Pond 1/2.

Source inventory parameters for the facultative ponds are provided in Table 2.

## 3.3 Modeling Input Parameters

The model was run using the "regulatory default" mode, which specified the use of the following options:

- Stack-tip downwash-reduces effective stack height when plume exit velocity is less than 1.5 times the wind speed
- Plume buoyancy induces dispersion-increases the dispersion coefficient to account for the vertical movement of the plume



- Calms processing
- Allow missing meteorological data
- Elevated terrain

Source specific input parameters were entered into the Source Pathway of the model.

### 3.4 Building Downwash Analysis

Any Site structures that may impact the emission sources, with respect to influencing building downwash, were also considered. Direction specific building dimensions were calculated utilizing BPIP-PRIME.

### 3.5 Meteorological Data

The Site does collect meteorological tower data. However, the 2012-2016 surface and profile meteorological data, as provided by the NYSDEC, was used in the analysis.

The surface and profile meteorological data was processed using the USEPA AERMET version 16216 according to standard USEPA methods for air dispersion modeling.

### 3.6 Modeled Receptors

For each pollutant, a multi-tier, uniform Cartesian grid centered on the CWM Model City Facility was established.

| <i><b>Distance from CWM Facility</b></i> | <i><b>Receptor Node Spacing</b></i> |
|------------------------------------------|-------------------------------------|
| Up to 1 km                               | 70 m                                |
| 1 km to 2 km                             | 200 m                               |
| 2 km to 10 km                            | 500 m                               |

A property boundary receptor grid was established along the property boundary of the CWM Model City Facility with a spacing of 20 m to capture the maximum property boundary concentration.

All receptors located within the CWM Model City Facility property boundary were removed, as the site is fenced and public access is prohibited.

The need to evaluate elevated receptors within two (2) km of the CWM Model City Facility, such as rooftops, balconies and similar areas with public access, was not required.

### 3.7 Terrain Considerations

Although the topography of the region is relatively flat, the effects of terrain was considered as part of the modeling analyses. Elevations above mean sea level corresponding to the base elevation of the CWM Model City Facility was assigned to all structures and sources modeled.

At the request of DEC, a site-specific topographical elevation model was developed to include the existing and future onsite landfill features, and features of the Modern Landfill situated south of the Facility. The digital terrain data was constructed from USGS DEM data (10-meter resolution) with the following modifications.





- Elevations within the property of the CWM Model City Facility was replaced with air survey data based on photogrammetric methods
- RMU-1 elevation data was inserted into the CWM Model City Facility to represent its final design, replacing data in the air survey
- RMU-2 elevation data was inserted into the CWM Model City Facility to represent the berm design height of 30 feet, replacing data in the air survey
- Elevations for Modern Landfill to the south were extracted from 1-meter LIDAR data

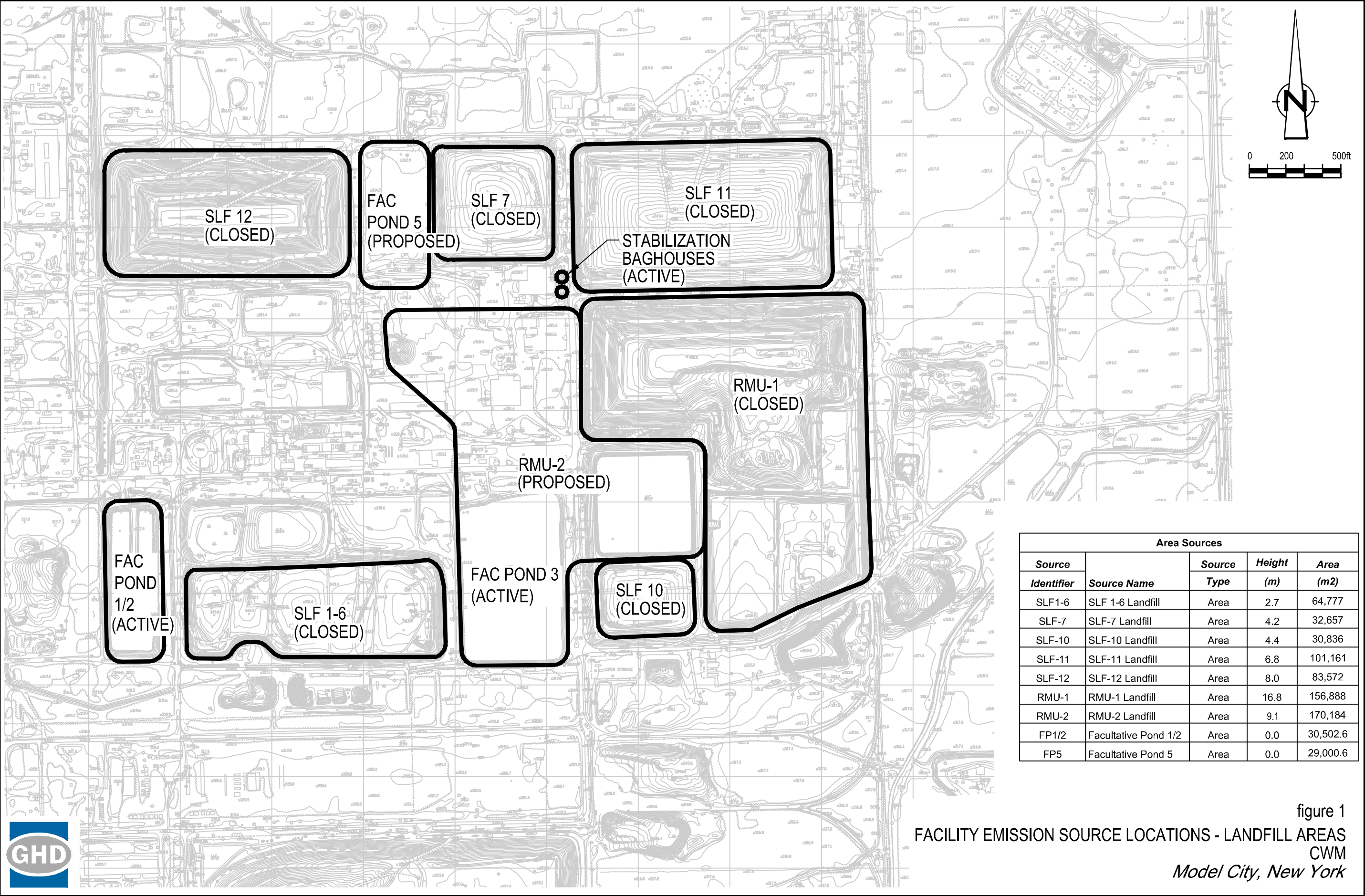
The above data sources were merged together into a single file using ArcGIS software. Alignment corrections, measurement units and projections systems were addressed during this stage. The resulting merged elevation file was then exported from ArcGIS into a neutral XYZ (x-coordinate, y-coordinate, elevation) file with 10-meter resolution. The XYZ file was further converted into USGS DEM format for use with AERMAP to develop the necessary terrain mesh for AERMOD's terrain following algorithms.

All sources were assigned base elevations calculated from data in the terrain mesh. An examination of the assigned elevations to the landfill area sources indicated that the elevations were too low for their designed final heights. These sources were manually adjusted to their final heights.

## 4. Conclusion

The results of the modeling analysis are provided in Table 3. All the modeled results are below their respective SGC and/or AGC values at the property boundary.

An electronic CD has been provided which contains all pertinent input and output files, as well as all supporting data files and executables necessary to reproduce the modeling results.

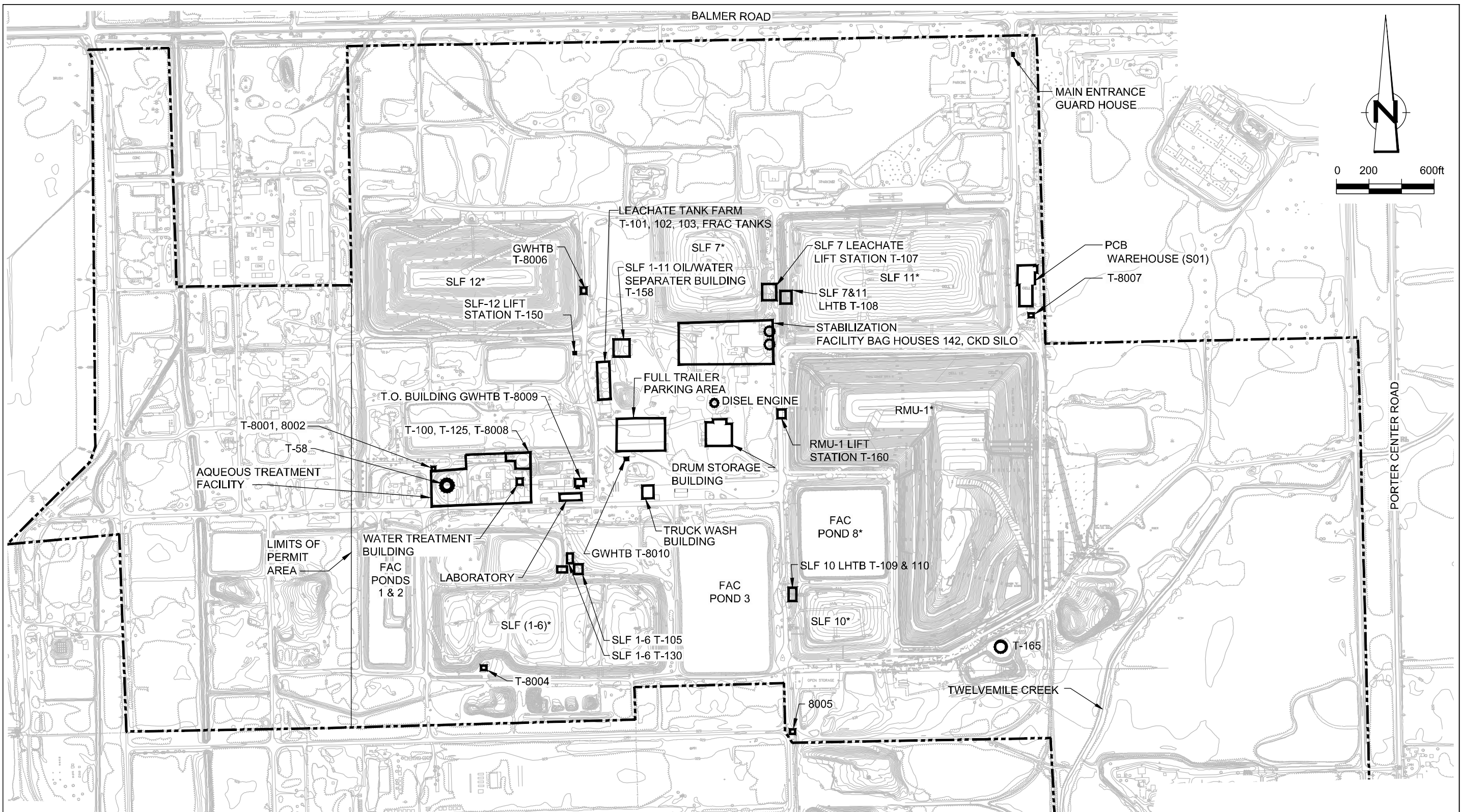


| Area Sources |                      |        |        |          |
|--------------|----------------------|--------|--------|----------|
| Source       | Source Name          | Source | Height | Area     |
| Identifier   |                      | Type   | (m)    | (m2)     |
| SLF1-6       | SLF 1-6 Landfill     | Area   | 2.7    | 64,777   |
| SLF-7        | SLF-7 Landfill       | Area   | 4.2    | 32,657   |
| SLF-10       | SLF-10 Landfill      | Area   | 4.4    | 30,836   |
| SLF-11       | SLF-11 Landfill      | Area   | 6.8    | 101,161  |
| SLF-12       | SLF-12 Landfill      | Area   | 8.0    | 83,572   |
| RMU-1        | RMU-1 Landfill       | Area   | 16.8   | 156,888  |
| RMU-2        | RMU-2 Landfill       | Area   | 9.1    | 170,184  |
| FP1/2        | Facultative Pond 1/2 | Area   | 0.0    | 30,502.6 |
| FP5          | Facultative Pond 5   | Area   | 0.0    | 29,000.6 |

figure 1  
FACILITY EMISSION SOURCE LOCATIONS - LANDFILL AREAS  
CWM  
Model City, New York







**LEGEND**

SLF = SECURE LANDFILL  
FAC = FACULTATIVE

\* = INACTIVE  
LHTB = LEACHATE HOLDING TANK BUILDING  
GWHTB = GROUNDWATER COLLECTION HOLDING TANK BUILDING

**NOTES:**

1. THIS MAP COMPILED BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY DATED 5-31-01. (AIR SURVEY CORP. PROJECT NO.71010503)
2. VERTICAL DATUM BASED ON NGS MEAN SEA LEVEL.
3. GRID BASED ON LOCAL COORDINATE SYSTEM.
4. CONTOUR INTERVAL 2 FT.
5. DASHED CONTOURS INDICATE THAT GROUND IS PARTIALLY OBSCURED BY VEGETATION OR SHADOWS. THESE AREAS MAY NOT MEET STANDARD ACCURACY AND REQUIRE FIELD TESTING COMPLETION.
6. PROPERTY LINES ARE APPROXIMATE.
7. 630 PERMITTED ACRES.
8. 710 TOTAL ACRES.



figure 2  
FACILITY EMISSION SOURCE LOCATIONS - BUILDINGS AND TANKS  
CWM  
Model City, New York

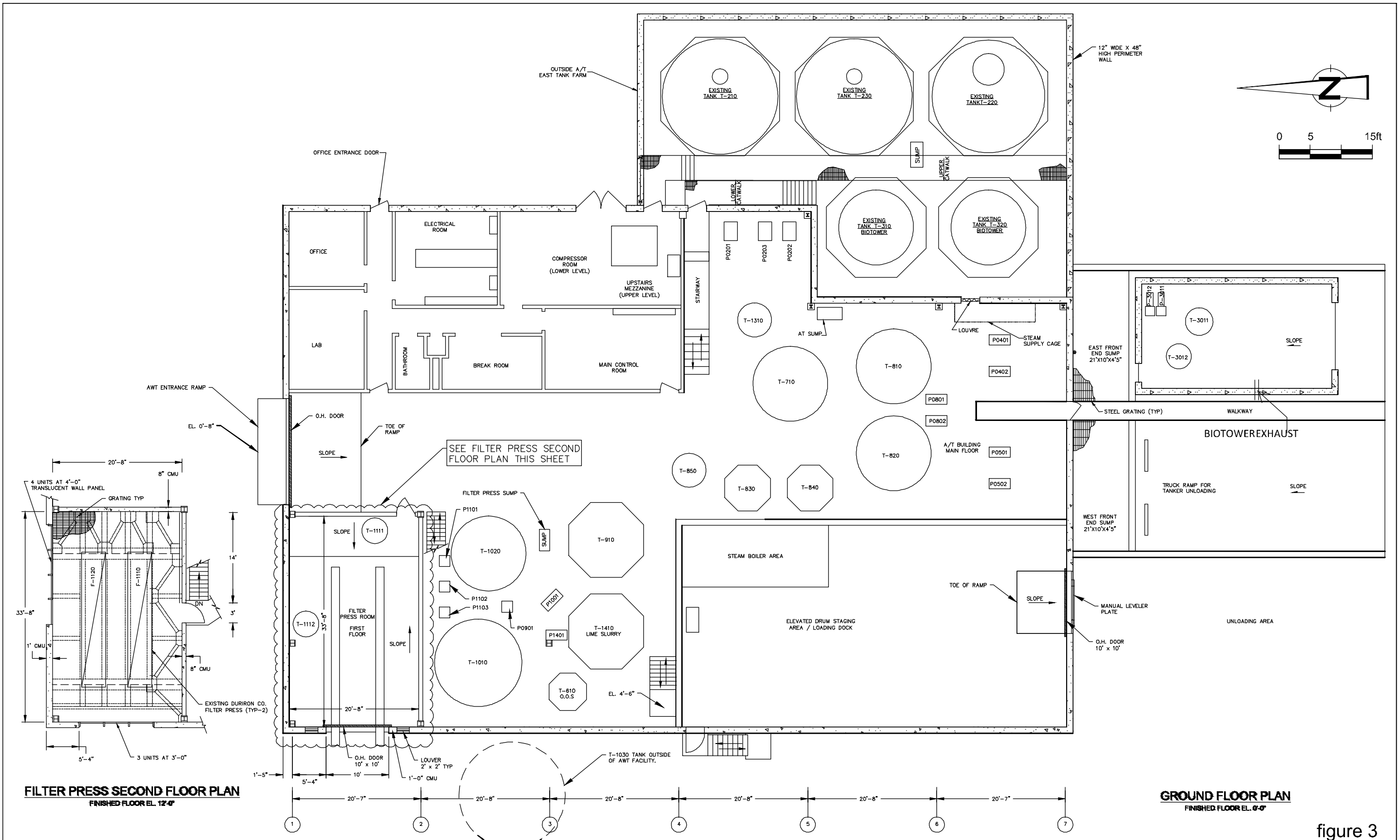


figure 3  
FACILITY SOURCE LOCATIONS (AWT BUILDING)  
CWM  
Model City, New York



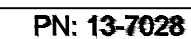




Table 1A

Summary of Modeled Emission Rates - Existing Facility  
CWM Chemical Services, LLC  
Model City, New York

|                            | Aroclor 1242                 | Aroclor 1254 | Aroclor 1260 | POM      | Xylene   | Toluene  | Methylene<br>Chloride | Methyl ethyl<br>ketone |
|----------------------------|------------------------------|--------------|--------------|----------|----------|----------|-----------------------|------------------------|
| Emission Source            | Emissions (grams per second) |              |              |          |          |          |                       |                        |
|                            |                              |              |              |          |          |          |                       |                        |
| SLF 1-6 Standpipes         | 4.34E-05                     | 1.43E-05     | 5.19E-06     | 1.18E-05 | 6.12E-05 | 8.72E-05 | 2.59E-03              | 2.31E-03               |
| SLF 1-6 Cover Diffusion    | 6.71E-06                     | 7.28E-06     | 1.45E-05     | 0.00E+00 | 2.64E-05 | 1.46E-04 | 2.20E-03              | 3.20E-05               |
| SLF 1-6 Barometric Pumping | 1.01E-06                     | 1.09E-06     | 2.18E-06     | 0.00E+00 | 3.96E-06 | 2.19E-05 | 3.31E-04              | 4.80E-06               |
| SLF 1-6 TOTAL              | 5.12E-05                     | 2.27E-05     | 2.19E-05     | 1.18E-05 | 9.16E-05 | 2.55E-04 | 5.13E-03              | 2.34E-03               |
| SLF 7 Standpipes           | 8.74E-07                     | 0.00E+00     | 0.00E+00     | 0.00E+00 | 4.37E-05 | 1.56E-05 | 5.09E-04              | 2.35E-04               |
| SLF 7 Cover Diffusion      | 9.16E-07                     | 0.00E+00     | 0.00E+00     | 0.00E+00 | 4.53E-04 | 1.45E-04 | 1.34E-03              | 8.68E-06               |
| SLF 7 Barometric Pumping   | 1.37E-07                     | 0.00E+00     | 0.00E+00     | 0.00E+00 | 6.79E-05 | 2.18E-05 | 2.01E-04              | 1.30E-06               |
| SLF-7 TOTAL                | 1.93E-06                     | 0.00E+00     | 0.00E+00     | 0.00E+00 | 5.64E-04 | 1.83E-04 | 2.05E-03              | 2.45E-04               |
| SLF 10 Standpipes          | 8.91E-08                     | 1.90E-08     | 3.41E-08     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-04              | 4.43E-04               |
| SLF 10 Cover Diffusion     | 1.80E-08                     | 1.33E-08     | 5.44E-08     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-04              | 4.05E-06               |
| SLF 10 Barometric Pumping  | 2.71E-09                     | 1.99E-09     | 8.15E-09     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.84E-05              | 6.08E-07               |
| SLF-10 TOTAL               | 1.10E-07                     | 3.43E-08     | 9.66E-08     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.92E-04              | 4.48E-04               |
| SLF 11 Standpipes          | 5.50E-06                     | 2.17E-05     | 1.23E-05     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.06E-05              | 9.86E-05               |
| SLF 11 Cover Diffusion     | 6.62E-07                     | 8.81E-06     | 1.14E-05     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E-06              | 5.53E-07               |
| SLF 11 Barometric Pumping  | 9.93E-08                     | 1.32E-06     | 1.70E-06     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.55E-07              | 8.29E-08               |
| SLF-11 TOTAL               | 6.26E-06                     | 3.18E-05     | 2.54E-05     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-05              | 9.93E-05               |
| SLF 12 Standpipes          | 3.64E-07                     | 4.99E-07     | 3.93E-07     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.13E-06              | 1.18E-08               |
| SLF 12 Cover Diffusion     | 2.82E-07                     | 1.38E-06     | 2.48E-06     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.19E-05              | 3.51E-10               |
| SLF 12 Barometric Pumping  | 4.23E-08                     | 2.07E-07     | 3.73E-07     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.78E-06              | 5.27E-11               |
| SLF-12 TOTAL               | 6.88E-07                     | 2.08E-06     | 3.25E-06     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.98E-05              | 1.22E-08               |
| RMU-1 Standpipes           | 1.71E-07                     | 0.00E+00     | 7.22E-07     | 0.00E+00 | 0.00E+00 | 1.76E-05 | 1.78E-05              | 2.35E-05               |
| RMU-1 Cover Diffusion      | 1.12E-08                     | 0.00E+00     | 0.00E+00     | 5.51E-10 | 1.39E-07 | 6.49E-07 | 5.00E-07              | 3.18E-07               |
| RMU-1 Barometric Pumping   | 1.68E-09                     | 0.00E+00     | 0.00E+00     | 8.26E-11 | 2.09E-08 | 9.73E-08 | 7.50E-08              | 4.77E-08               |
| RMU-1 TOTAL                | 1.84E-07                     | 0.00E+00     | 7.22E-07     | 6.33E-10 | 1.60E-07 | 1.84E-05 | 1.83E-05              | 2.39E-05               |
| Stabilization Baghouse #1  | 3.09E-05                     | 2.90E-05     | 2.63E-05     | 1.33E-03 | 8.10E-01 | 8.10E-01 | 8.10E-01              | 8.10E-01               |
| Stabilization Baghouse #2  | 1.72E-05                     | 1.61E-05     | 1.46E-05     | 7.41E-04 | 4.50E-01 | 4.50E-01 | 4.50E-01              | 4.50E-01               |
| Facultative Pond 1/2       | 1.29E-07                     | 1.21E-07     | 1.10E-07     | 0.00E+00 | 0.00E+00 | 3.15E-07 | 5.85E-07              | 1.98E-06               |

Table 1B

Summary of Modeled Emission Rates - RMU-2 Project  
CWM Chemical Services, LLC  
Model City, New York

|                          | Aroclor 1242                                     | Aroclor 1254 | Aroclor 1260 | POM      | Xylene   | Toluene  | Methylene Chloride | Methyl ethyl ketone |
|--------------------------|--------------------------------------------------|--------------|--------------|----------|----------|----------|--------------------|---------------------|
| Emission Source          | Emissions (grams per second) Open <sup>(1)</sup> |              |              |          |          |          |                    |                     |
|                          |                                                  |              |              |          |          |          |                    |                     |
| Facultative Pond 5       | 1.78E-07                                         | 1.67E-07     | 1.52E-07     | 0.00E+00 | 0.00E+00 | 4.35E-07 | 8.08E-07           | 2.73E-06            |
| RMU-2 Standpipes         | 1.17E-07                                         | 0.00E+00     | 4.87E-07     | 0.00E+00 | 0.00E+00 | 1.19E-05 | 1.20E-05           | 1.68E-05            |
| RMU-2 Cover Diffusion    | 4.94E-07                                         | 4.63E-07     | 4.20E-07     | 1.93E-07 | 4.88E-05 | 2.27E-04 | 1.75E-04           | 1.11E-04            |
| RMU-2 Barometric Pumping | 7.40E-08                                         | 6.95E-08     | 6.30E-08     | 2.90E-08 | 7.32E-06 | 3.41E-05 | 2.63E-05           | 1.67E-05            |
| RMU-2 Active Face        | 6.06E-05                                         | 5.69E-05     | 5.16E-05     | 6.63E-05 | 2.66E-04 | 7.28E-04 | 1.58E-04           | 1.88E-04            |
| RMU-2 TOTAL              | 6.13E-05                                         | 5.74E-05     | 5.25E-05     | 6.65E-05 | 3.22E-04 | 1.00E-03 | 3.72E-04           | 3.33E-04            |

| Emission Source          | Emissions (grams per second) Closed <sup>(2)</sup> |          |          |          |          |          |          |          |
|--------------------------|----------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|
|                          |                                                    |          |          |          |          |          |          |          |
| Facultative Pond 5       | 1.78E-07                                           | 1.67E-07 | 1.52E-07 | 0.00E+00 | 0.00E+00 | 4.35E-07 | 8.08E-07 | 2.73E-06 |
| RMU-2 Standpipes         | 1.17E-07                                           | 0.00E+00 | 4.87E-07 | 0.00E+00 | 0.00E+00 | 1.19E-05 | 1.20E-05 | 1.68E-05 |
| RMU-2 Cover Diffusion    | 4.94E-07                                           | 4.63E-07 | 4.20E-07 | 1.93E-07 | 4.88E-05 | 2.27E-04 | 1.75E-04 | 1.11E-04 |
| RMU-2 Barometric Pumping | 7.40E-08                                           | 6.95E-08 | 6.30E-08 | 2.90E-08 | 7.32E-06 | 3.41E-05 | 2.63E-05 | 1.67E-05 |
| RMU-2 Active Face        | 4.84E-08                                           | 4.54E-08 | 4.12E-08 | 1.89E-08 | 4.79E-06 | 2.23E-05 | 1.72E-05 | 1.09E-05 |
| RMU-2 TOTAL              | 7.33E-07                                           | 5.78E-07 | 1.01E-06 | 2.41E-07 | 6.09E-05 | 2.96E-04 | 2.31E-04 | 1.56E-04 |

| Emission Source          | Variable Emission Rate Ratio Closed |           |           |           |           |           |           |           |
|--------------------------|-------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                          |                                     |           |           |           |           |           |           |           |
| Facultative Pond 5       | 1                                   | 1         | 1         | 1         | 1         | 1         | 1         | 1         |
| RMU-2 Standpipes         | 1                                   | 1         | 1         | 1         | 1         | 1         | 1         | 1         |
| RMU-2 Cover Diffusion    | 1                                   | 1         | 1         | 1         | 1         | 1         | 1         | 1         |
| RMU-2 Barometric Pumping | 1                                   | 1         | 1         | 1         | 1         | 1         | 1         | 1         |
| RMU-2 Active Face        | 7.99E-04                            | 7.99E-04  | 7.99E-04  | 2.86E-04  | 1.80E-02  | 3.07E-02  | 1.09E-01  | 5.81E-02  |
| RMU-2 TOTAL              | 1.196E-02                           | 1.007E-02 | 1.924E-02 | 3.623E-03 | 1.892E-01 | 2.953E-01 | 6.207E-01 | 4.678E-01 |

Notes:

- <sup>(1)</sup> Emissions rate during the time frame there is active waste placement in the landfill (RMU-2). (8 hrs/day Monday to Saturday)
- <sup>(2)</sup> Emissions rate during the time frame waste surfaces are covered with final, intermediate, or daily cover. (16 hrs/day Monday-Saturday; 24 hrs/day Sunday)

Table 2

**Summary of Modeling Input Parameters  
CWM Chemical Services, LLC  
Model City, New York**

Table 2A: Point Sources

| Source Identifier | Source Name               | Source Type | Exit Height (m) | Exit Diameter | Exit Temperature |             | Actual Flow Rate |                      | Exit Velocity (m/s) |
|-------------------|---------------------------|-------------|-----------------|---------------|------------------|-------------|------------------|----------------------|---------------------|
|                   |                           |             |                 | Actual (m)    | Actual (K)       | Modeled (K) | (ACFM)           | (Am <sup>3</sup> /s) |                     |
| BH1               | Stabilization Baghouse #1 | Point       | 15.24           | 2.44          | Ambient          | 0           | 9.00E+04         | 4.25E+01             | 9.08                |
| BH2               | Stabilization Baghouse #2 | Point       | 9.14            | 1.32          | Ambient          | 0           | 5.00E+04         | 2.36E+01             | 17.24               |

Table 2B: Area Sources

| Source Identifier | Source Name          | Source Type | Height (m) | Total Area               |
|-------------------|----------------------|-------------|------------|--------------------------|
|                   |                      |             |            | Actual (m <sup>2</sup> ) |
| SLF1-6            | SLF 1-6 Landfill     | Area        | 2.7        | 64,777                   |
| SLF-7             | SLF-7 Landfill       | Area        | 4.2        | 32,657                   |
| SLF-10            | SLF-10 Landfill      | Area        | 4.4        | 30,836                   |
| SLF-11            | SLF-11 Landfill      | Area        | 6.8        | 101,161                  |
| SLF-12            | SLF-12 Landfill      | Area        | 8.0        | 83,572                   |
| RMU-1             | RMU-1 Landfill       | Area        | 16.8       | 156,888                  |
| RMU-2             | RMU-2 Landfill       | Area        | 9.1        | 170,184                  |
| FP1/2             | Facultative Pond 1/2 | Area        | 0.0        | 30,502.6                 |
| FP5               | Facultative Pond 5   | Area        | 0.0        | 29,000.6                 |



Table 3

**Summary of Modeling Results  
CWM Chemical Services, LLC  
Model City, New York**

| <b>Air Contaminant</b>    | <b>CAS No.</b> | <b>SGC/AGC<br/>Limit<br/>(ug/m3)</b> | <b>Averaging<br/>Period</b> | <b>Maximum<br/>Predicted GLC<br/>(ug/m3)</b> | <b>Percent of<br/>SGC/AGC Limit<br/>(%)</b> |
|---------------------------|----------------|--------------------------------------|-----------------------------|----------------------------------------------|---------------------------------------------|
| Methyl Ethyl Ketone       | 00078-93-3     | 13000                                | 1-hour                      | 629.46                                       | 4.84%                                       |
|                           |                | 5000                                 | annual                      | 4.03                                         | 0.08%                                       |
| Methylene Chloride        | 00075-09-2     | 14000                                | 1-hour                      | 629.98                                       | 4.50%                                       |
|                           |                | 60                                   | annual                      | 0.95                                         | 1.58%                                       |
| PCB 1242                  | various        | 0.01                                 | annual                      | 0.0025                                       | 25.41%                                      |
| PCB 1254                  | various        | 0.002                                | annual                      | 0.00126                                      | 62.95%                                      |
| PCB 1260                  | various        | 0.002                                | annual                      | 0.00121                                      | 60.50%                                      |
| POM                       | various        | 0.02                                 | annual                      | 0.01                                         | 33.27%                                      |
| Toluene                   | 00108-88-3     | 37000                                | 1-hour                      | 629.55                                       | 1.70%                                       |
|                           |                | 5000                                 | annual                      | 0.92                                         | 0.02%                                       |
| Xylenes, m, o & p mixture | 01330-20-7     | 22000                                | 1-hour                      | 629.45                                       | 2.86%                                       |
|                           |                | 100                                  | annual                      | 0.92                                         | 0.92%                                       |

Note: The NYSDEC DAR-1 document does not list short-term guidance concentration (SGC) values for POM or PCBs.

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**ENCLOSURE NO. 4  
COMPACT DISKETTE  
REVISED AIR QUALITY MODELING FILES FOR RMU-2**

July 12, 2017  
Hand delivery to Mr. D. Denk