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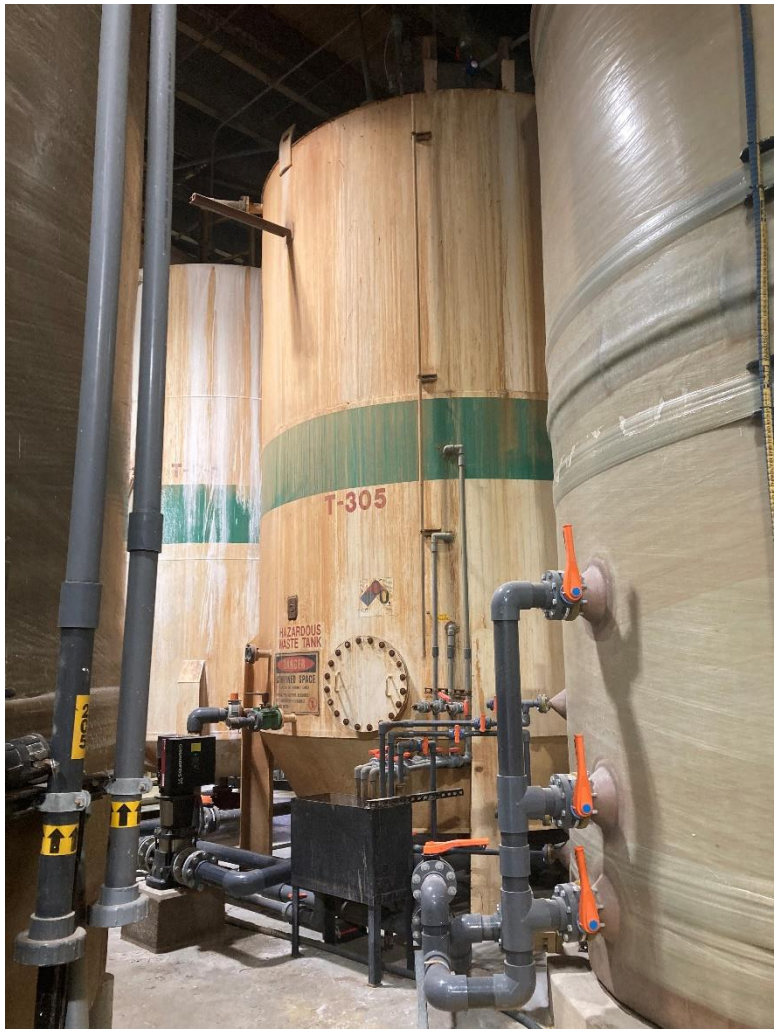

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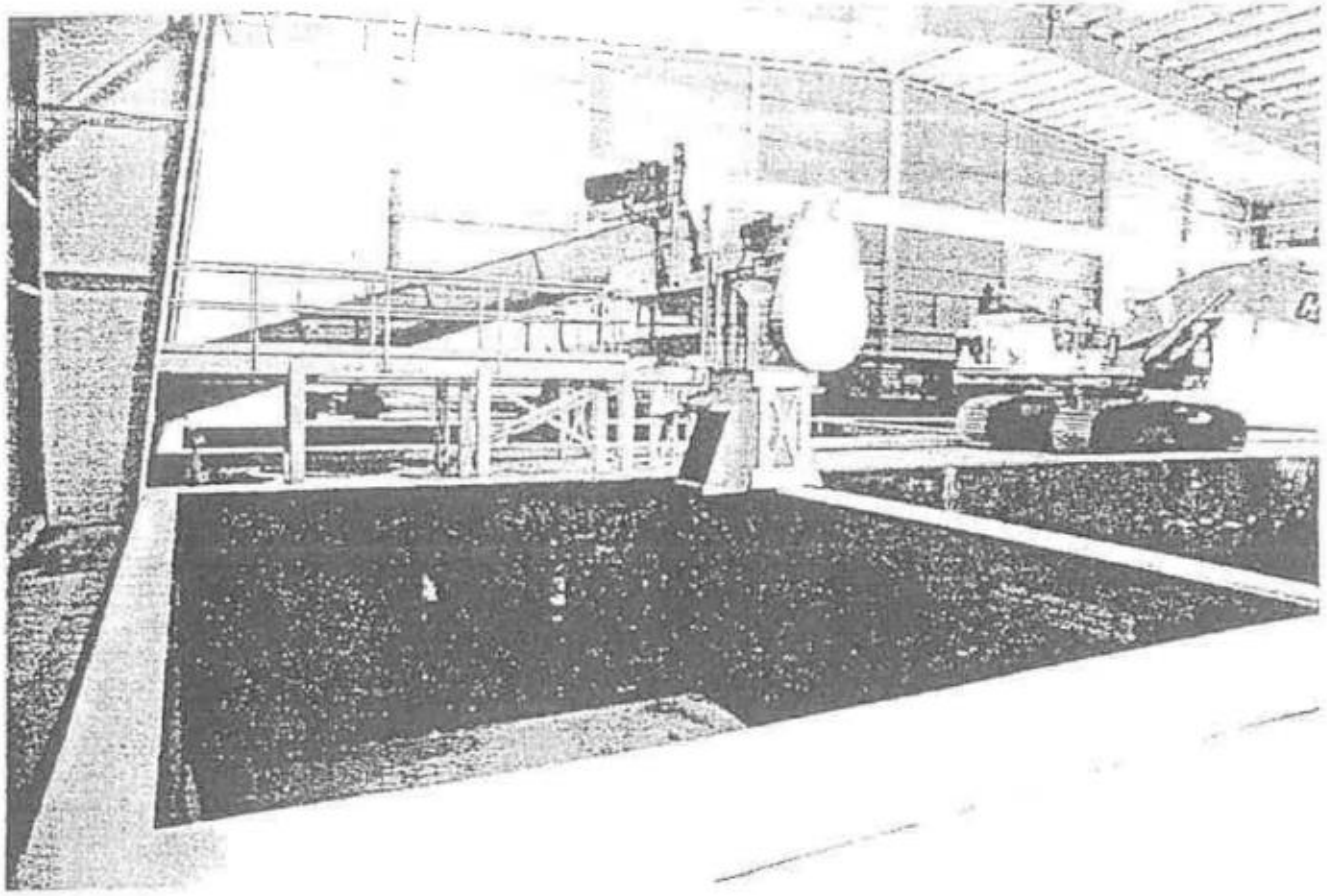
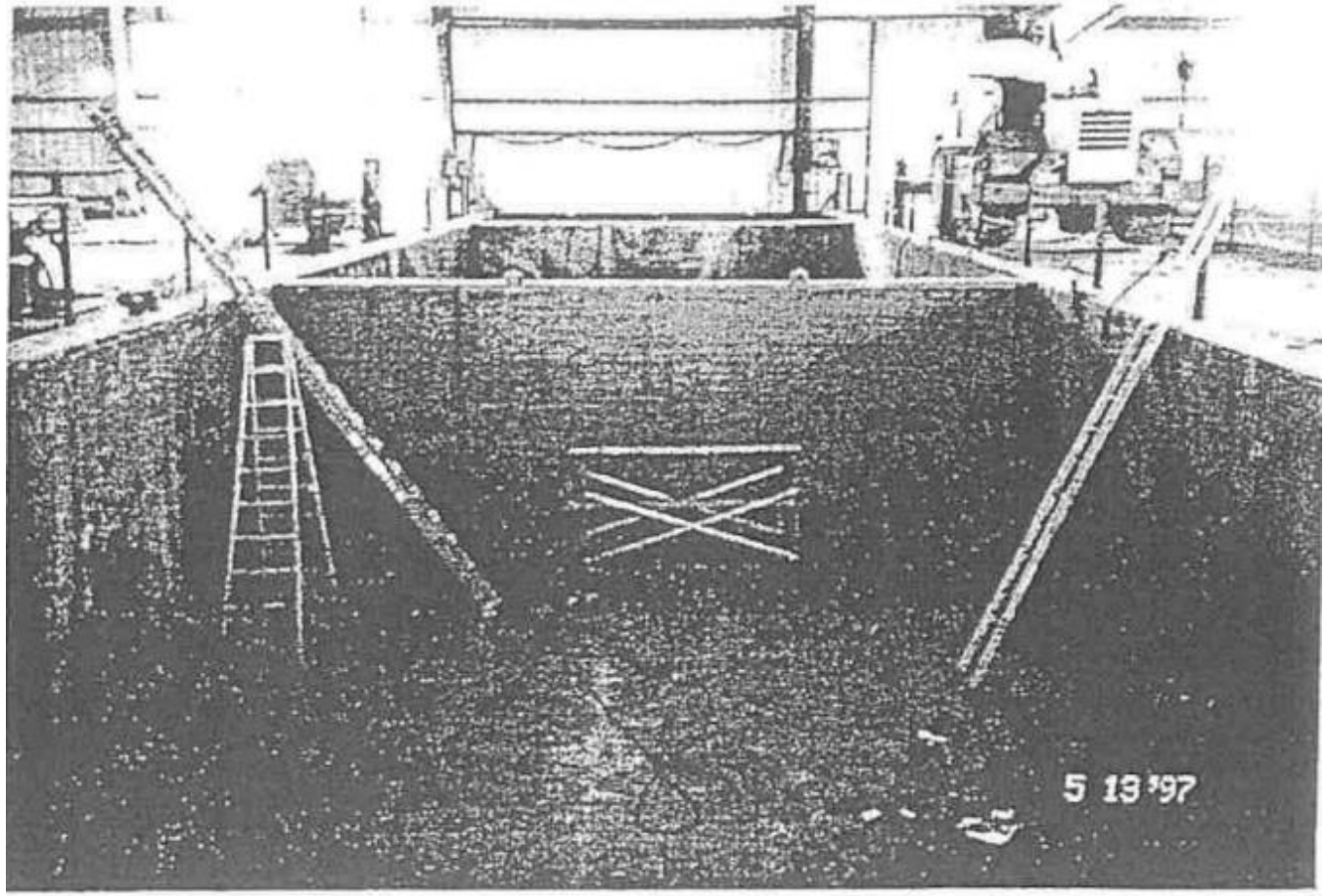


Figure 28. V-702



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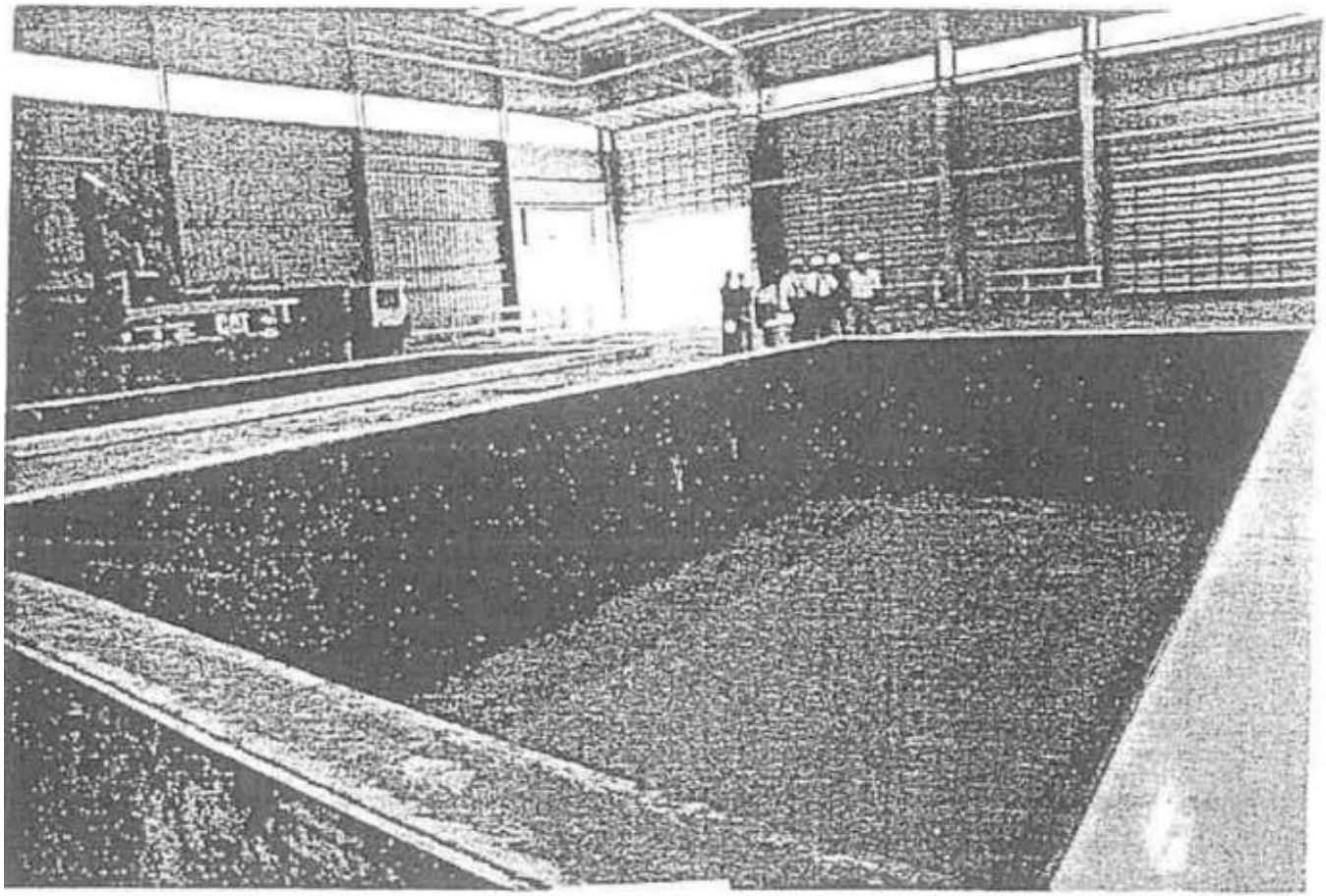


Figure 30. V-704

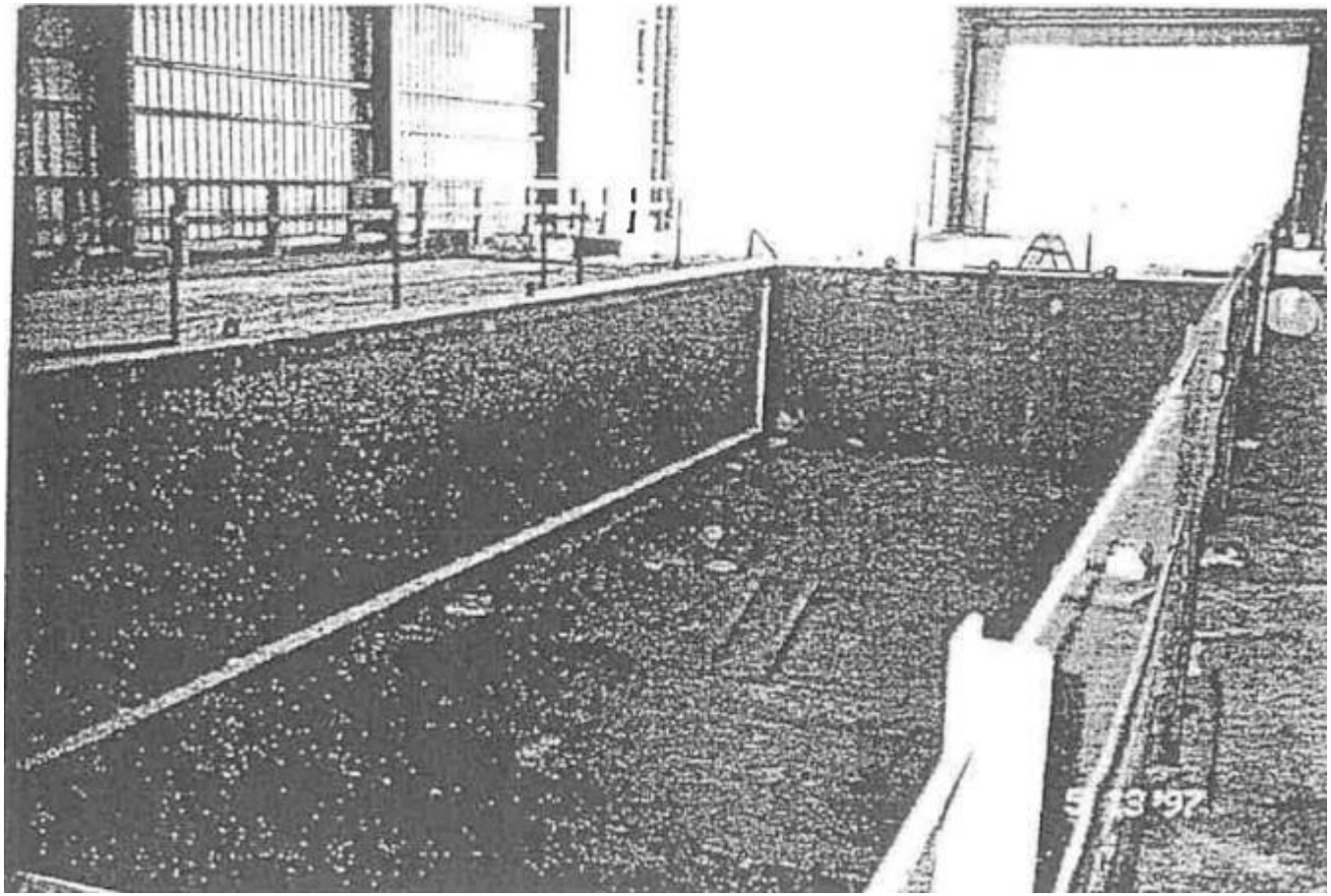


Figure 31. V-705

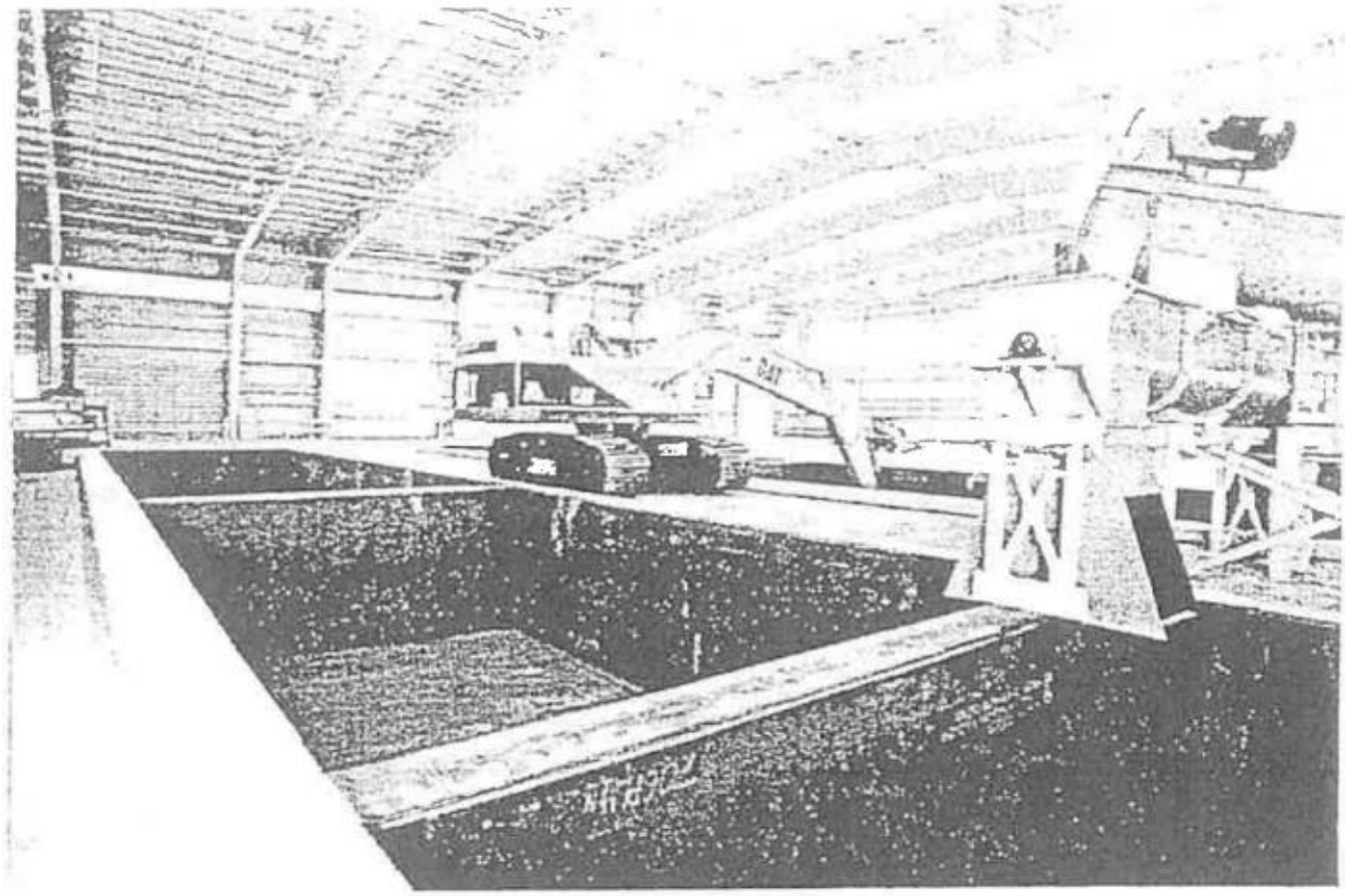


Figure 32. V-706

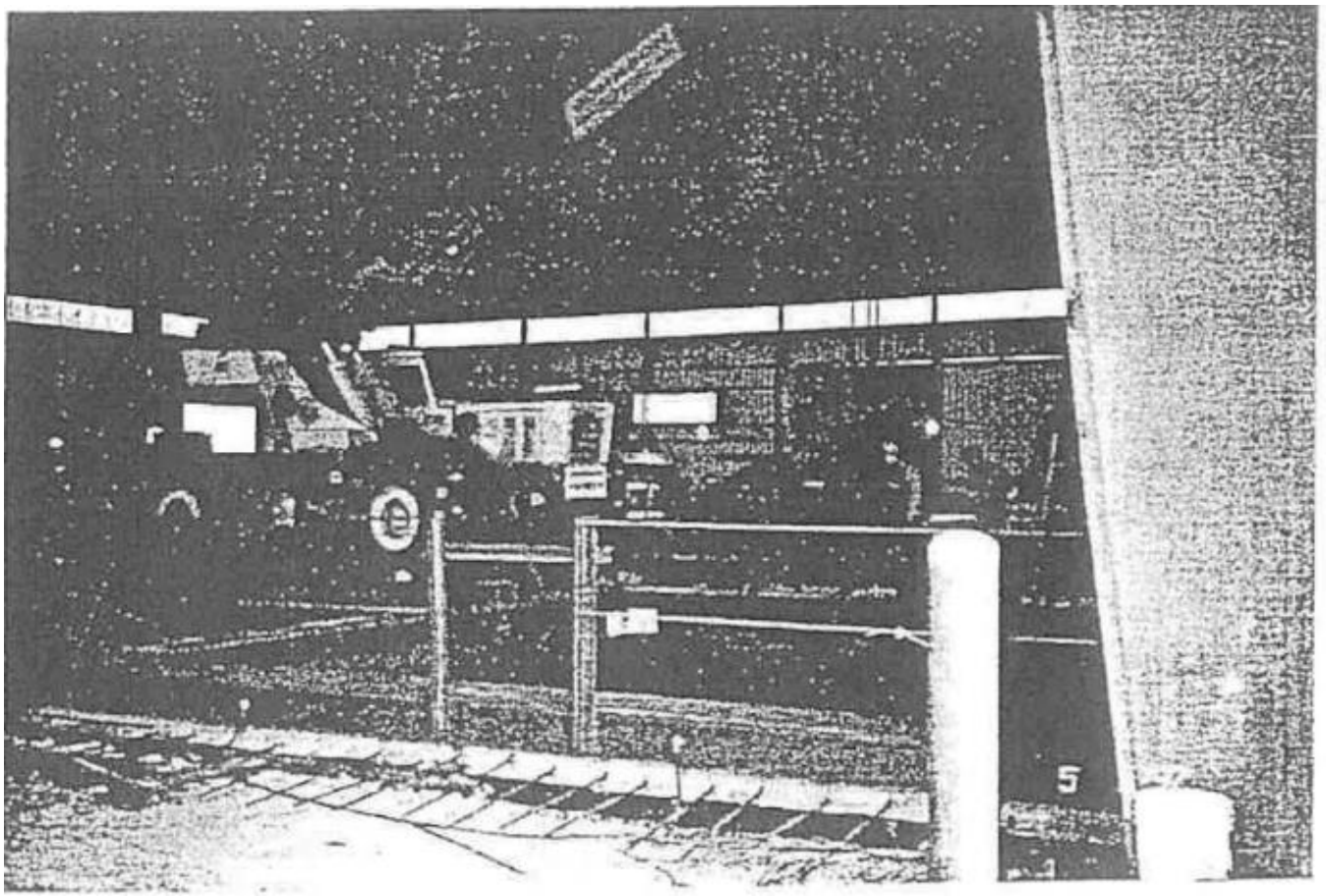


Figure 33. Bulking Area on North Side of Container Staging Building

Appendix A- 2: Hazardous Waste Permit Application – EQP 5111

EGLE

Michigan Department of Environment, Great Lakes, and Energy
Materials Management Division

OPERATING LICENSE APPLICATION FORM FOR HAZARDOUS WASTE TREATMENT, STORAGE, AND DISPOSAL FACILITIES

Required under authority of Part 111, Hazardous Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Failure to submit this information may result in civil or criminal penalties.

Note: Copies of the current EGLE Site Identification Form, EQP 5150, and the EPA Part A Permit Application Form, 8700-23, must be submitted with this application.

I. FACILITY SITE ID NUMBER	MID 980 991 566										
II. FACILITY'S LEGAL OWNER											
A. Name	EQ Detroit, Inc.										
B. Street or P.O. Box	1923 Frederick Street										
C. City/State/ZIP	Detroit, MI 48211										
D. Telephone Number (area code included)	313-347-1300										
E. Owner Type		F. Ownership Change?	Y		N	X	N/A		Date		
III. FACILITY OPERATOR											
A. Name	Same as above										
B. Street or P.O. Box											
C. City/State/ZIP											
D. Telephone Number (area code included)											
E. Operator Type		F. Operator Change?	Y		N	X	N/A		Date		
IV. TITLEHOLDER OF LAND											
A. Name	Same as above										
B. Street or P.O. Box											
C. City/State/ZIP											
D. Telephone Number (area coded included)											

V. OPERATING LICENSE APPLICATION

Place an "X" in the appropriate box under either A or B (select only one box)

A. Operating License Application		
☐	First Application for *Existing Facility	Place an "X" here if application is for a facility that has not been previously licensed in Michigan to treat, store, or dispose of hazardous waste and has interim status pursuant to 40 CFR §270.70.
☒	Renewal Application for *Existing Facility	Place an "X" here if renewal application for a facility that was previously licensed in Michigan to treat, store, or dispose hazardous waste and whose hazardous waste operations have not had any new construction or been altered, enlarged, or expanded.
☐	Application for Modification of License	Place an "X" here if application is for a license modification.
☐	First Application for Research, Development, and Demonstration (RDD) License	Place an "X" here if application for a temporary license for RDD.
☐	Renewal Application for RDD License	Place an "X" here if application for the renewal of a temporary license for RDD.
B. Operating License Application for New, Altered, Enlarged, or Expanded Facility		
☐	First Application	Place an "X" here if application is for a new facility or a facility that wishes to alter, enlarge, or expand its hazardous waste operations.

For existing facilities, provide date operation began.	Date	07/30/2002
For RDD activities, provide the date RDD began or expected to begin.	Date	
For new, altered, enlarged, or expanded facilities, provide date expected construction to begin.	Date	

***Existing Facility** means a hazardous waste treatment, storage, or disposal facility (TSDF) that either received all necessary state-issued environmental permits or licenses before January 1, 1980, or for which approval of construction was received from the Air Pollution Control Commission before November 19, 1980, or before promulgation of new federal rules that caused the facility to become subject to regulation as a TSDF. Existing facilities also include TSDFs that were operating before January 1, 1980, under existing authority, or before promulgation of new federal rules that caused the facility to become subject to regulation as a TSDF and that did not require state-issued environmental permits or licenses.

VI. OPERATING LICENSE APPLICATION FEES			
☒	A. Operating License Application Fixed Fee	$	500
☐	B. Additional License Application Fees for New, Altered, Enlarged, or Expanded Facility	$	25,000
	Check Type of Facility		
☐	Land Disposal ($9,000)	$	
☐	Incineration or Other Treatment ($7,200)	$	
☐	Storage ($500)	$	
Total Operating License Fee		$	

Note: Checks shall be made payable to the "State of Michigan" and the state accounting code "HWOL" written in the memo portion. Checks shall be mailed to EGLE, Cashier's Office, P.O. Box 30657, Lansing, Michigan 48909-8157, with a copy of payment included with application that is mailed to the EGLE, MMD, P.O. Box 30241, Lansing, Michigan 48909-7741.

VII. EXISTING ENVIRONMENTAL PERMITS (attach copies of each as proof of issuance)			
☐	A.	NPDES (Discharges to Surface Water) Permit Number	
☐	B.	UIC (Underground Injection of Fluids) Permit Number	
☒	C.	RCRA (Hazardous Waste) Permit Number	MID 980 991 566
☐	D.	PSD (Air Emissions From Proposed Sources) Permit Number	
☒	E.	Other (Specify below) Permit Number	See Appendix A-4

VIII. NATURE OF BUSINESS (Provide a brief description)

See Appendix A-11

IX. MAP

Attach to this application a topographic map of the area extending at least one mile beyond the property boundaries. The map must show the legal boundaries of the facility; the location of each of its existing and proposed intake and discharge structures; each of its hazardous waste treatment, storage, or disposal facilities, including the location of all processes listed in Items XII and XIII identified by process code; and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area, plus all drinking water wells within a quarter mile of the facility that are identified in the public record or otherwise known to you. (see instructions for specific requirements)

X. FACILITY DRAWING

All existing facilities must include a scale drawing of the facility showing the property boundaries of the facility; the areas occupied by treatment, storage, or disposal operations that will be used during interim status; the name of each operation (drum storage area, etc.); areas of past TSD operations; areas of future TSD; and the approximate dimensions of the property boundaries and all TSD areas. Where applicable, use the process codes listed in Items XII and XIII to indicate the location of all TSD. This drawing should fit on an 8.5 by 11 inch sheet of paper.

XI. PHOTOGRAPHS

All existing facilities must include photographs that clearly delineate all existing structures; existing storage, treatment, and disposal areas; and sites of future storage, treatment, or disposal areas. Use the process codes and descriptions in Items XII and XIII to indicate the location of all TSD areas. Indicate the date of the photograph on the back of each photograph. Photographs may be in color or black and white, aerial or ground-level.

XII. PROCESS CODES AND DESIGN CAPACITIES (see instructions)

Line Number	A. Process Code (from list)	B. Process Design Capacity B.1. Quantity	B.2. Unit of Measure	For Official Use Only	Line Number	A. Process Code (from list)	B. Process Design Capacity B.1. Quantity	B.2. Unit of Measure	For Official Use Only
1.					6.				
2.					7.				
3.					8.				
4.					9.				
5.					10.				

C. Additional Process Codes or Description of Nonlisted Processes (Codes "S99" and "T04").

XIII DESCRIPTION OF HAZARDOUS WASTES

Line Number	A. Hazardous Waste Number (enter code)	B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Processes				
				D.1 Process Codes (enter code)				D.2 Process Description (if no code entered in D.1)
	See Table A-2							

XIV. OTHER REQUIRED ATTACHMENTS

A. General Information (each item should be a separate attachment to the application)

1. General facility description
2. Chemical and physical analyses*
3. Waste Analysis Plan*
4. Security procedures and equipment
5. Inspection schedules*
6. Preparedness/prevention or waiver*
7. Contingency Plan*
8. Traffic information
9. Location information
10. Personnel training program*
11. Closure and Postclosure (C/PC) Plan*
12. C/PC cost estimates*
13. Topographic map
14. Liability mechanism
15. Financial assurance instrument

* Use template provided to complete application

B. Supplemental Information (each item, if needed, should be a separate attachment to the application)

1. Status of compliance with other federal laws
2. Corrective action information*
3. Hydrogeological Report*
4. Environmental Assessment*
5. Environmental monitoring Programs*
6. Engineering plans
7. Proof of issuance of other permits or licenses
8. Capability certification/compliance schedule
9. Restrictive covenant (landfills only)
10. Construction certification (new, altered, enlarged, or expanded)

* Use template provided to complete application

C. Facility Specific Information (each item, if needed, should be a separate attachment to the application)

1. Containers*
2. Tanks*
3. Incineration or thermal treatment
4. Treatment
5. Surface impoundments
6. Waste piles
7. Landfills
8. Land treatment
9. Miscellaneous units
10. Underground mines or caves
11. Drip pads
12. Boilers and industrial furnaces
13. Air emissions from process vents, equipment leaks, tanks, containers, and surface impoundments**

* Use template provided to complete application

** Use templates C.11-AA, C.11-BB, and C.11-CC provided to complete application

XV. CERTIFICATION		
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.		
EQ Detroit, Inc.		
OWNER NAME (type or print)	SIGNATURE	DATE SIGNED
John C. Barta	JCB	11/14/2022
OPERATOR NAME (type or print)	SIGNATURE	DATE SIGNED
EQ Detroit, Inc.		
TITLEHOLDEROF LAND NAME (type or print)	SIGNATURE	DATE SIGNED

Appendix A- 3: Notification of Hazardous Waste Activity – EQP 5150

MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
MATERIALS MANAGEMENT DIVISION

SITE IDENTIFICATION FORM

You must save this file to your computer before completing the form
Required under authority of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Failure to submit this information may result in civil or criminal penalties

1. Reason for Submittal (Select only one)

☐	Obtaining an initial United States Environmental Protection Agency (EPA) Identification (ID) number, **as a new site or new owner,** for an on-going regulated activity that will continue for a period of time. **FEES DO NOT APPLY TO LIB ONLY SITES**. **1. Pay the $50 fee** on-line using MasterCard, VISA, or Discover Card at https://www.thepayplace.com/mi/deq/siteid. **2. E-mail the form,** with a copy of the fee receipt, to EGLE-MMD-Site-ID-Reporting@Michigan.gov; **or, Mail the form with check** payable to the **State of Michigan** to: Michigan Department of Environment, Great Lakes and Energy (EGLE), Cashier's Office–HWUC, P.O. Box 30657, Lansing, Michigan 48909-7741.
☐	Submitting a subsequent notification to change, update, or verify site information for an existing owner of a site with a previously issued Site ID number. E-mail to EGLE-MMD-Site-ID-Reporting@Michigan.gov
☐	* NOTIFYING that **SITE IS STILL IN BUSINESS AND NO LONGER GENERATING WASTE (end date required)** _____ Authorized Signature_____ Date_____ * *E-mail completed pages 1-2 to* EGLE-MMD-Site-ID-Reporting@Michigan.gov
☐	*NOTIFYING that **SITE IS OUT OF BUSINESS AND NO LONGER GENERATING WASTE (end date required)** _____ Authorized Signature_____ Date_____ **E-mail completed pages 1-2 to* EGLE-MMD-Site-ID-Reporting@Michigan.gov
☐	Obtaining or updating an EPA ID number for conducting Electronic Manifest Broker activities.
☑	Submitting a new or revised Part A Form.
☐	Submitting as component of the Hazardous Waste Biennial Report for _____(Reporting Year)
	☐ Former TSD facility, reverse distributor, and/or generator of less than 1,000 kilograms(kg) hazardous waste, less than 1 kg acute hazardous waste, or 100 kg acute hazardous waste spill cleanup in one or more months of the reporting year.

2. Site EPA ID Number

M	I	D	9	8	0	9	9	1	5	6	6

3. Site Legal Name

EQ Detroit, Inc.

4. Site Specific Name

EQ Detroit, Inc. (Detroit South)

Site ID M I D 9 8 0 9 9 1 5 6 6

5. Site Location Address

Street Address 1923 Frederick Street		
Street Address (room/suite/mail code)		
City, Town, or Village Detroit		County Wayne
State Michigan	Country USA	Zip Code 48211

6. Site Mailing Address ■ **Same as Location Address**

Street Address		
Street Address (room/suite/mail code)		
City, Town, or Village		County
State	Country	Zip Code

7. Federal Tax ID # (required)

20-0413867

8. Site Land Type (check one)

Private	County	District	Federal	Tribal	Municipal	State	Other
☑	☐	☐	☐	☐	☐	☐	☐

9. North American Industry Classification System (NAICS) at least one 6-digit code REQUIRED

A 562211	B	C	D

10. Site Contact Information ■ **Same as Location Address**

First Name John	MI C	Last Name Barta
Street Address		
City, Town, or Village		
State	Country	Zip Code
Email		
Phone	Ext	Fax

11. Name of Site's Legal Owner (Company or Individual) ☐ **Change in Ownership**

Approximate date became owner_____ ☐ **Same as Site Mailing Address**

Full Name		
Street Address		
City, Town, or Village		
State	Country	Zip Code
Email		
Phone	Ext	Fax

Site ID M I D 9 8 0 9 9 1 5 6 6

11(b) Name of Site's Legal Operator (Company or Individual) ☐ **Change in Operator**

Approximate date became operator_____ ☐ **Same as Site Specific Name/Address**

Full Name		
Street Address		
City, Town, or Village		
State	Country	Zip Code
Email		
Phone	Ext	Fax

Hazardous Waste Activities (Please complete all questions)

12. Type of Regulated Waste Activity Date Activity Began ☐

☑ Y ☐ N	1. Generator of Hazardous Waste – If "Yes", mark only one of the following:	
☑	**Large Quantity Generator (LQG)**	-Generates, in any calendar month (includes quantities imported by importer site), 1,000 kg per month (mo) (2,200 pounds (lb)/mo) or more of non-acute hazardous waste; or -Generates, in any calendar month or accumulates at any time, more than 1 kg/mo (2.2 lb/mo) of acute hazardous waste; or -Generates, in any calendar month or accumulates at any time, more than 100 kg/mo (220 lb/mo) of acute hazardous spill cleanup material
☐	**Small Quantity Generator (SQG)**	100 to 1,000 kg/mo (220 to 2,200 lb/mo) of non-acute hazardous waste, and no more than 1 kg (2.2 lb) of acute hazardous waste, and no more than 100 kg (220 lb) of any acute hazardous spill cleanup material
☐	**Very Small Quantity Generator (VSQG)**	Less than, or equal to, 100 kg/mo (220 lb/mo) of non-acute hazardous waste
Please answer all questions		
☐ Y ☑ N	2. Short Term Generator (generates from a short-term or one-time event and not from on-going processes). If "Yes" provide an explanation in the Comments Section.	
☑ Y ☐ N	3. Treater, Stores or Disposer of Hazardous Waste – Hazardous waste Part B permit is required for these activities	
☑ Y ☐ N	4. Receives Hazardous Waste from Off-site	
☐ Y ☑ N	5. Recycler of Hazardous Waste	
	☐ who stores prior to recycling ☐ who does not store prior to recycling	
☐ Y ☑ N	6. Exempt Boiler and/or Industrial Furnace – If "Yes", mark all that apply.	
	☐ Small Quantity On-site Burner Exemption	
	☐ Smelting, Melting, and Refining Furnace Exemption	

Waste Codes for Federally Regulated Hazardous Waste. Please list the waste codes of the Federal Hazardous Wastes handled at your site. List them in the order they are presented in the regulations (e.g., D001, D002, F007, U112). Use an additional page if more spaces are needed.

List Attached						

Waste Codes for State Regulated (non-Federal) Hazardous Waste. Please list the waste codes of the State Hazardous Wastes handled at your site. List them in the order they are presented in the regulations. Use an additional page if more spaces are needed.

List Attached						

13. Additional Regulated Waste Activities

Other Waste Activities

☐ Y ☑ N	**Transporter of Hazardous Waste** – If "Yes", mark all that apply. **(May require permits or registration)**
	☐ Transporter
	☐ Transfer Facility (at your site)
☑ Y ☐ N	Commingle Waste
☐ Y ☑ N	Off Loads During Transportation
☐ Y ☑ N	Underground Injection Control
☑ Y ☐ N	United States Importer of Hazardous Waste
☐ Y ☑ N	Recognized Trader – If "Yes", mark all that apply
	☐ Importer
	☐ Exporter
☐ Y ☑ N	Importer/Exporter of Spent Lead-Acid Batteries (SLABs under R 299.9804) – If "Yes", mark all that apply.
	☐ Importer
	☐ Exporter

Site ID M I D 9 8 0 9 9 1 5 6 6

Universal Waste Activities

☑ Y ☐ N	Large Quantity Handler of Universal Waste (accumulate 5,000 kg or more) – If "Yes", mark all that apply. Note: Refer to state regulations to determine what is regulated.
	☑ Batteries
	☑ Pesticides
	☑ Thermostats
	☑ Mercury Switches
	☑ Mercury Thermometers
	☑ Devices containing elemental mercury
	☑ Electric Lamps
	☑ Pharmaceuticals
	☑ Consumer Electronics
	☑ Antifreeze as defined in R 299.9101
☑ Y ☐ N	Destination Facility of Universal Waste **(a hazardous waste permit may be required for this activity)**

Used Oil Activities

☐ Y ☑ N	Used Oil Transporter – If "Yes", mark all that apply.
	☐ Transporter
	☐ Transfer Facility (at your site)
☑ Y ☐ N	Used Oil Processor and/or Re-refiner – If "Yes," mark all that apply.
	☑ Processor Date Activity Began:
	☐ Re-refiner Date Activity Began:
☐ Y ☑ N	Off-Specification Used Oil Burner Date Activity Began:
☐ Y ☑ N	Used Oil Fuel Marketer – If "Yes", mark all that apply.
	☐ Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner Date Activity Began:
	☐ Marketer Who First Claims the Used Oil Meets the Specifications Date Activity Began:
☑ Y ☐ N	Used Oil Collection or Aggregation Point
☐ Y ☑ N	Collection Center or Aggregation Point that accepts DIY Used Oil

Liquid Industrial By-Product Activities

☐ Y ☑ N	Liquid Industrial By-Product Transporter – If "Yes", mark all that apply. **(requires Permit & Registration)**
	☐ Transporter Date Activity Began:
	☐ Transfer Facility (at your site) Date Activity Began:
☐ Y ☑ N	Transports Own Waste. Date Activity Began:
☑ Y ☐ N	Liquid Industrial Waste By-Product Generator. Date Activity Began:
☑ Y ☐ N	Liquid Industrial By-Product Designated Facility. Date Activity Began:

14. Eligible Academic Entities with Laboratories - Notification for opting into or withdrawing from managing laboratory hazardous wastes pursuant to R 299.9315.

☐ Y ☑ N	Opting into, or currently operating under, R 299.9315, for the management of hazardous wastes in laboratories. If "Yes", mark all that apply. NOTE: See the item-by-item instructions for definitions of types of eligible academic entities.
	☐ College or University
	☐ Teaching Hospital that is owned by, or has a formal written affiliation with, a college or university
	☐ Non-profit Institute that is owned by, or has a formal written affiliation with, a college or university
☐ Y ☑ N	Withdrawing from R 299.9315, for the management of hazardous wastes in laboratories.

15. Episodic Generation

☐ Y ☑ N	Are you an SQG or VSQG generating hazardous waste from a planned or unplanned episodic event, lasting no more than 60 days, that moves you to a higher generator category? If "Yes", you must fill out the Addendum for Episodic Generator.

16. LQG Consolidation of VSQG Hazardous Waste

☐ Y ☑ N	Are you an LQG notifying of consolidating VSQG hazardous waste under the control of the same person pursuant to R 299.9307(6)? If "Yes", you must fill out the Addendum for LQG Consolidation of VSQGs hazardous waste.

17. Notification of LQG Site Closure for a Central Accumulation Area (CAA) (optional) OR Entire Facility (Required)

☐ Y ☑ N	LQG Site Closure of a Central Accumulation Area (CAA) or Entire Facility
	☐ Central Accumulation Area (CAA)
	☐ Entire Facility
	Expected Closure date:
	Requesting new closure date:
	Date Closed:
☐ Y ☐ N	In compliance with the closure performance standards R 299.9307(1)(k)
☐ Y ☐ N	Not in compliance with the closure performance standards R 299.9307(1)(k)

18. Notification of Hazardous Secondary Material (HSM) Activity

☐ Y ☑ N	Are you notifying under R 299.9204(1) that you will begin managing, are managing, or will stop managing HSM under R 299.9204(1), R 299.9204(1)(aa – dd)? If "Yes", you must fill out the Addendum to the Site Identification Form for Managing Hazardous Secondary Material.

19. Electronic Manifest Broker

☐ Y ☑ N	Are you notifying as a person, as defined in 40 CFR 260.10, electing to use the EPA electronic manifest system to obtain, complete, and transmit an electronic manifest under a contractual relationship with a hazardous waste generator?

20. Comments (include item number for each comment)

21. 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 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 fines and imprisonment for knowing violations.
Note: For the RCRA Hazardous Waste Part A Permit Application, all owners and operators must sign (see 40 CFR 270.10(b) and 270.11).

Signature of legal owner, operator, or authorized representative JCB	Date (mm/dd/yyyy) 11/14/2022
Printed Name (First, Middle Initial, Last) John C. Barta	Title General Manager
Email John.Barta@usecology.com	

Signature of legal owner, operator, or authorized representative	Date (mm/dd/yyyy)
Printed Name (First, Middle Initial, Last)	Title
Email	

APPENDIX A

WASTE CODES ACCEPTED AT THE FACILITY
JULY 31, 2002 PART B PERMIT APPLICATION AMMENDMENT
EQ DETROIT, INC.
DETROIT, MICHIGAN
Revised: September 13, 2005

EPA Hazardous Waste Codes

D001	F005	K025	K097	K172	P045	P103	U011	U061	U111	U159	U210	U411
D002	F006	K026	K098	K174	P046	P104	U012	U062	U112	U160	U211	
D003	F007	K027	K099	K175	P047	P105	U014	U063	U113	U161	U213	
D004	F008	K028	K100	K176	P048	P106	U015	U064	U114	U162	U214	
D005	F009	K029	K101	K177	P049	P108	U016	U066	U115	U163	U215	
D006	F010	K030	K102	K178	P050	P109	U017	U067	U116	U164	U216	
D007	F011	K031	K103	K181	P051	P110	U018	U068	U117	U165	U217	
D008	F012	K032	K104	P001	P054	P111	U019	U069	U118	U166	U218	
D009	F019	K033	K105	P002	P056	P112	U020	U070	U119	U167	U219	
D010	F020	K034	K106	P003	P057	P113	U021	U071	U120	U168	U220	
D011	F021	K035	K107	P004	P058	P114	U022	U072	U121	U169	U221	
D012	F022	K036	K108	P005	P059	P115	U023	U073	U122	U170	U222	
D013	F023	K037	K109	P006	P060	P116	U024	U074	U123	U171	U223	
D014	F024	K038	K110	P007	P062	P118	U025	U075	U124	U172	U225	
D015	F025	K039	K111	P008	P063	P119	U026	U076	U125	U173	U226	
D016	F026	K040	K112	P009	P064	P120	U027	U077	U126	U174	U227	
D017	F027	K041	K113	P010	P065	P121	U028	U078	U127	U176	U228	
D018	F028	K042	K114	P011	P066	P122	U029	U079	U128	U177	U234	
D019	F032	K043	K115	P012	P067	P123	U030	U080	U129	U178	U235	
D020	F034	K044	K116	P013	P068	P127	U031	U081	U130	U179	U236	
D021	F035	K045	K117	P014	P069	P128	U032	U082	U131	U180	U237	
D022	F037	K046	K118	P015	P070	P185	U033	U083	U132	U181	U238	
D023	F038	K047	K123	P016	P071	P188	U034	U084	U133	U182	U239	
D024	F039	K048	K124	P017	P072	P189	U035	U085	U134	U183	U240	
D025	K001	K049	K125	P018	P073	P190	U036	U086	U135	U184	U243	
D026	K002	K050	K126	P020	P074	P191	U037	U087	U136	U185	U244	
D027	K003	K051	K131	P021	P075	P192	U038	U088	U137	U186	U246	
D028	K004	K052	K132	P022	P076	P194	U039	U089	U138	U187	U247	
D029	K005	K060	K136	P023	P077	P196	U041	U090	U140	U188	U248	
D030	K006	K061	K141	P024	P078	P197	U042	U091	U141	U189	U249	
D031	K007	K062	K142	P026	P081	P198	U043	U092	U142	U190	U278	
D032	K008	K069	K143	P027	P082	P199	U044	U093	U143	U191	U279	
D033	K009	K071	K144	P028	P084	P201	U045	U094	U144	U192	U280	
D034	K010	K073	K145	P029	P085	P202	U046	U095	U145	U193	U328	
D035	K011	K076	K147	P030	P087	P203	U047	U096	U146	U194	U353	
D036	K013	K077	K148	P031	P088	P204	U048	U097	U147	U196	U359	
D037	K014	K078	K149	P033	P089	P205	U049	U098	U148	U197	U364	
D038	K015	K083	K150	P034	P092	U001	U050	U099	U149	U200	U367	
D039	K016	K084	K151	P036	P093	U002	U051	U101	U150	U201	U372	
D040	K017	K085	K156	P037	P094	U003	U052	U102	U151	U202	U373	
D041	K018	K086	K157	P038	P095	U004	U053	U103	U152	U203	U387	
D042	K019	K087	K158	P039	P096	U005	U055	U105	U153	U204	U389	
D043	K020	K088	K159	P040	P097	U006	U056	U106	U154	U205	U394	
F001	K021	K093	K161	P041	P098	U007	U057	U107	U155	U206	U395	
F002	K022	K094	K169	P042	P099	U008	U058	U108	U156	U207	U404	
F003	K023	K095	K170	P043	P101	U009	U059	U109	U157	U208	U409	
F004	K024	K096	K171	P044	P102	U010	U060	U110	U158	U209	U410	

Michigan Hazardous Waste Codes

001 K	054 U	114 U	170 U
002 K	055 U	115 U	171 U
001 U	056 U	116 U	172 U
002 U	057 U	117 U	173 U
003 U	058 U	118 U	174 U
004 U	059 U	119 U	175 U
005 U	061 U	120 U	
006 U	063 U	121 U	
007 U	064 U	122 U	
008 U	065 U	124 U	
009 U	068 U	127 U	
011 U	070 U	128 U	
012 U	071 U	129 U	
013 U	072 U	131 U	
014 U	073 U	132 U	
015 U	074 U	134 U	
016 U	075 U	135 U	
017 U	076 U	136 U	
020 U	077 U	137 U	
021 U	078 U	138 U	
022 U	079 U	139 U	
023 U	080 U	140 U	
024 U	082 U	141 U	
025 U	083 U	142 U	
027 U	086 U	143 U	
028 U	088 U	144 U	
029 U	089 U	146 U	
030 U	090 U	147 U	
031 U	092 U	148 U	
032 U	093 U	150 U	
033 U	094 U	151 U	
034 U	095 U	152 U	
036 U	096 U	153 U	
037 U	097 U	154 U	
038 U	098 U	155 U	
040 U	099 U	157 U	
041 U	100 U	158 U	
042 U	101 U	159 U	
043 U	102 U	160 U	
044 U	103 U	161 U	
046 U	104 U	162 U	
047 U	106 U	164 U	
048 U	108 U	165 U	
049 U	110 U	166 U	
050 U	111 U	167 U	
051 U	112 U	168 U	
052 U	113 U	169 U	

Appendix A- 4: List of All Necessary Environmental Permits

R 299.9508(1)(f)

And

40 CFR 270.13(k)

GLWA
Great Lakes Water Authority

Wastewater Operating Services
Industrial Waste Control
9300 West Jefferson, Suite 210
Detroit, Michigan 48209

CERTIFIED MAIL

June 10, 2019

Ms. Tabetha Peebles
EQ Detroit dba US Ecology
1923 Frederick Street
Detroit, MI 48211

Re: Wastewater Discharge Permit No. 923-91964-IU

Dear Ms. Peebles:

Enclosed please find your Wastewater Discharge Permit as issued by the Great Lakes Water Authority (GLWA). The terms and conditions of this permit are based on applicable law, data and other related information your company has submitted to the Industrial Waste Control (IWC) Division.

This permit contains the specific discharge limitations, effective dates, self-monitoring and reporting requirements for your facility to comply. Please note that any and all penalties, pretreatment schedules, compliance agreements, and/or Administrative Orders previously imposed as a consequence of violations by the industrial user, prior to the issuance of this permit, remain in full force and effect.

In accordance with City of Detroit, Ordinance No. 08-05, or equivalent local ordinance, any appeal regarding this permit must be submitted in writing within twenty (20) days from the date of mailing of this permit.

Should you have any questions, please contact Ms. Rosam George, of the Permits Section, at (313) 297-5844.

Sincerely,

Stephen J. Kuplicki, P.E., J.D.
Operations Manager
Industrial Waste Control Group

SJK/RG
Enclosure

GLWA
Great Lakes Water Authority

GREAT LAKES WATER AUTHORITY
Industrial Waste Control Division
9300 West Jefferson Avenue, Suite 210
Detroit, Michigan 48209

WASTEWATER DISCHARGE PERMIT
PERMIT NO.: 923-91964-IU

SECTION A: GENERAL INFORMATION

Facility I.D. No.:	91964
Company Name:	EQ Detroit dba US Ecology
Facility Address:	1923 Frederick Street Detroit, MI 48211
Mailing Address:	1923 Frederick Street Detroit, MI 48211

The Great Lakes Water Authority ("GLWA") hereby authorizes the Categorical Significant Industrial User specified above to discharge wastewater to the GLWA's sewer system, in accordance with the terms of this Wastewater Discharge Permit. The requirements and conditions established in this permit do not relieve the company of its obligation to comply with any applicable pretreatment regulations, standards, requirements, or laws that may become effective during the term of this permit.

This permit is granted in accordance with the application filed with the GLWA, and in conformity with plans, specifications, and other substantive data submitted to the GLWA in support of the above application. This discharge authorization is granted in accordance with the Wastewater Discharge Ordinance of the City of Detroit or equivalent local ordinance, and any applicable provisions of federal or state laws or regulations.

It is the responsibility of the Permittee to submit a permit reapplication form at least ninety (90) days before the expiration date of this permit with all supporting documentation and re-certifications. Upon a timely filing, this permit will continue in effect until it is superseded by a successive final Wastewater Discharge Permit.

Effective Date:	June 10, 2019
Expiration Date:	March 1, 2023

Authorized by:

Stephen J. Kuplicki, P.E., J.D.
Operations Manager
Industrial Waste Control Division

SECTION B: DISCHARGE LIMITATIONS AND MONITORING REQUIREMENT

Representative Sampling Location: Discharge Weir: 21' South of the North wall; 29' East of the West wall inside the main plant

Wastewater Discharge Information: Discharge Stream 185,207 gpd average

Authorized Composite Sampling method (See Section F): Flow Proportional Composite

Applicable Discharge Limitations (reported in mg/l unless otherwise indicated)

Parameter	Daily Max	Monthly Avg	Min Sampling Frequency
2,4,6-Trichlorophenol (TCPH)	0.155	0.106	1 per 4 Days
2,4-Dichlorophenol (DCPH)	5.5		1 per 6 Month
2,4-Dinitrophenol (DNPH)	2		1 per 6 Month
2-Chlorophenol (CLPH)	2		1 per 6 Month
4-Chloro-3-methylphenol (4C3MP)	1		1 per 6 Month
4-Chlorophenol (4CP)	2		1 per 6 Month
4-Nitrophenol (4NPH)	15		1 per 6 Month
Acidity/Alkalinity (pH)	5-11.5 SU		1 per 4 Days
Antimony (Sb)	0.249	0.206	1 per 4 Days
Arsenic (As)	0.162	0.104	1 per 4 Days
Biochemical Oxygen Demand (BOD)	7500		1 per 6 Month
Bis (2-Ethylhexyl) Phthalate (BEHP)	0.267	0.158	1 per 4 Days
Cadmium (Cd)	0.474	0.0962	1 per 4 Days
Carbazole (CARB)	0.392	0.233	1 per 4 Days
Chromium (Cr)	0.947	0.487	1 per 4 Days
Cobalt (Co)	0.192	0.124	1 per 4 Days
Copper (Cu)	0.405	0.301	1 per 4 Days
Cyanide (Available) (AVCN)	1		2 per Month
Fats, Oil or Grease (FOG)	1500		2 per Month
Fluoranthene (FLAN)	0.787	0.393	1 per 4 Days
Iron (Fe)	1000		2 per Month
Lead (Pb)	0.222	0.172	1 per 4 Days
Mercury (Hg)	Non-detect	0.000739	1 per 4 Days
n-Decane (NDEC)	5.79	3.31	1 per 4 Days
Nickel (Ni)	3.95	1.45	1 per 4 Days
n-Octadecane (NOCT)	1.22	0.925	1 per 4 Days

Parameter	Daily Max	Monthly Avg	Min Sampling Frequency
o-Cresol (2 Methylphenol) (OCRE)	1.92	0.561	1 per 4 Days
p-Cresol (4-Methlyphenol) (PCRE)	0.698	0.205	1 per 4 Days
Phenol Alcohol (PHEN AL)	14		1 per 6 Month
Phosphorus (P)	250		1 per 6 Month
Silver (Ag)	0.12	0.0351	1 per 4 Days
Tin (Sn)	0.409	0.12	1 per 4 Days
Titanium (Ti)	0.0947	0.0618	1 per 4 Days
Total PCB (PCB)	Non-detect		1 per 6 Month
Total Suspended Solids (TSS)	7500		2 per Month
Vanadium (V)	0.218	0.0662	1 per 4 Days
Zinc (Zn)	2.87	0.641	1 per 4 Days

Approved By: _____ Date: 06/10/2019

Table – II: Compliance Standards For Per- and Poly- fluoroalkyl Substances

	Requirements are effective January 1, 2020	This sampling frequency is effective January 1, 2020.
Perfluorobutanoic acid (PFBA)	Report	1 per 2 Weeks
Perfluoropentanoic acid (PFPeA)	Report	1 per 2 Weeks
Perfluorohexanoic acid (PFHxA)	Report	1 per 2 Weeks
Perfluoroheptanoic acid (PFHpA)	Report	1 per 2 Weeks
Perfluorooctanoic acid (PFOA)	2.3 µg/l	1 per 2 Weeks
Perfluorononanoic acid (PFNA)	Report	1 per 2 Weeks
Perfluorodecanoic acid (PFDA)	Report	1 per 2 Weeks
Perfluoroundecanoic acid (PFUnDA)	Report	1 per 2 Weeks
Perfluorododecanoic acid (PFDoDA)	Report	1 per 2 Weeks
Perfluorotridecanoic acid (PFTrDA)	Report	1 per 2 Weeks
Perfluorotetradecanoic acid (PFTeDA)	Report	1 per 2 Weeks
Perfluorobutane Sulfonic acid (PFBS)	Report	1 per 2 Weeks
Perfluoropentane Sulfonic acid (PFPeS)	Report	1 per 2 Weeks
Perfluorohexane Sulfonic acid (PFHxS)	Report	1 per 2 Weeks
Perfluoroheptane Sulfonic acid (PFHpS)	Report	1 per 2 Weeks
Perfluorooctane Sulfonic acid (PFOS)	0.06 µg/l	1 per 2 Weeks
Perfluorononane Sulfonic acid (PFNS)	Report	1 per 2 Weeks
Perfluorodecane Sulfonic acid (PFDS)	Report	1 per 2 Weeks
Perfluorooctane sulfonamide (FOSA)	Report	1 per 2 Weeks
4:2 Fluorotelomer sulfonic acid (4:2 FTSA)	Report	1 per 2 Weeks
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	Report	1 per 2 Weeks
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	Report	1 per 2 Weeks
N-Ethyl perfluorooctane sulfonamidoacetic acid EtFOSAA)	Report	1 per 2 Weeks
N-Methyl perfluorooctane sulfonamide (N-MeFOSA)	Report	1 per 2 Weeks

Approved By: _____ Date: 06/10/2019

SECTION C: PROHIBITION FOR DILUTION OR DILUTION IN LIEU OF TREATMENT

Except where expressly authorized to do so by an applicable pretreatment standard or requirement, no user shall increase the use of process water, or in any way dilute or attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in the national categorical pretreatment standards, or in any other pollutant specific limitation or requirement imposed by the City of Detroit, the State of Michigan, or the GLWA.

SECTION D: REPRESENTATIVE SAMPLING REQUIREMENT

All wastewater sampling performed by the permittee shall be collected in a manner and form intended to represent the wastewater discharged by the permittee.

SECTION E: APPLICABLE LIMITS ON RATE AND TIME OF DISCHARGE & FLOW REGULATION

1) The permittee is authorized to discharge wastewater regulated under this permit which has been given treatment or equivalent treatment in accordance with the representations made by the permittee. Based upon information filed with the GLWA, the following rate and time of discharge conditions and restrictions apply.

   a) Days/Hours of Operation: Seven (7) days a week/ 24 Hours per day

   b) Daily Rate Limits: The total volume discharged shall not exceed 900,000 gpd per day of process wastewater

   c) Type of Discharge: [X] Continuous

2) The permittee shall maintain the following records and information in support of all types of discharge in hard-copy or electronic form, and permit this information to be available to the GLWA's representative upon request. At a minimum, the permittee shall maintain a record of (i) the date of discharge, and the (ii) volume of wastewater discharged.

SECTION F: SELF-MONITORING CONDITIONS AND REQUIREMENTS

1) The sampling location(s) used for purposes of compliance sampling and reporting is identified in Section B. No alternate locations will be accepted unless approved in writing by the GLWA. Except in emergencies, all requests for an alternate sample location or change in the sampling location shall be submitted in writing at least thirty (30) days prior to the proposed date of change.

2) In accordance with 40 CFR 403.12(g)(3), the GLWA, as the authorized agent of the Control Authority, shall require the frequency of monitoring necessary to assess and assure compliance by the permittee. The minimum sampling frequency for each pollutant parameter described in Section B has been established based on (a) an evaluation of compliance history; (b) volume of process wastewater discharged to the sewer; (c) reported discharge frequency (if other than daily); and other information submitted in your permit application (or re-application), or from prior reports or inspections.

3) The specific pollutant parameters, which are to be monitored for purposes of compliance sampling and reporting, are identified in Section B.

   a) A flow proportional composite sample shall be collected and analyzed for all parameters as specified Section B, except for Fats, Oil or Grease (FOG), Cyanide (total, available, or amenable), PFAS, pH, Total Phenols, and the volatile organic compounds included in the TTO list, which shall be collected by one or more grab samples, or as specified in 40 CFR 136. All samples shall be representative of the facility's discharge based on flow proportional method.

   b) All samples shall be individually analyzed, reported and compared against the applicable limitations listed in Section B.

   c) If Section B includes limitations for 4-day, 30-day or monthly average, the appropriate average shall be calculated; compared with the appropriate Section B limitation, and reported with the self-monitoring report.

4) All sampling and analyses conducted for purposes of compliance with the requirements of this Permit, as identified in Section B, must be performed in accordance with the methods and techniques specified in 40 CFR Part 136 and any amendments thereto.

5) All sampling and analyses conducted for purposes of compliance with the requirements of Per and Polyfluoroalkyl Substances, as identified in Section B Table II, must be performed in accordance with EPA method 537 (modified) or ASTM D7979.

SECTION G: REPORTING, RECORDKEEPING AND NOTIFICATION REQUIREMENTS

1) If sampling performed by the permittee indicates a violation of the stated permit limitations, then the permittee shall provide notice and make a demonstration of compliance, which is acceptable to the GLWA and consist of the following minimum requirements:

   a) Written notification via email to iwc@glwater.org, or notification by telephone to the GLWA's at telephone number (313) 297-5826, within twenty-four (24) hours of becoming aware of the violation.

   NOTE: For purposes of this section, when interpreting, *"within twenty-four (24) hours of becoming aware"* the GLWA shall consider the reasonable time frame which the authorized representative, or their designated authorized representative, actually or should have become aware of the exceedance or violation through due diligence.

   b) A report identifying the suspected or known causes of the violation and any corrective measures taken or planned to prevent future noncompliance.

   c) A demonstration of compliance by collecting and analyzing at least two (2) more individual daily samples.

   d) Submission of the report and two (2) additional analyses to the GLWA within thirty (30) days of becoming aware of the noncompliance.

2) Where wastewater(s) are hauled off-site in addition to or in lieu of discharge to the POTW, the permittee shall maintain and provide upon request, the following information:
   a) Copies of waste manifest documents,
   b) Copies of analytical reports for materials sent off-site;
   c) Flow-meter records and/or water bill records for the six-month period

3) The permittee shall maintain the following records and information in support of all types of discharge in hard-copy or electronic form, and permit this information to be available to the GLWA's representative upon request. At a minimum, the permittee shall maintain a record of (i) the date of discharge, and the (ii) volume of wastewater discharged.

SECTION H: SPECIAL USER CHARGES FEES

1) Regulatory Oversight Fee – The GLWA will assess an Industrial Waste Control Meter Charge to all commercial and industrial users to recover the costs of regulatory sampling, inspections, enforcement and pretreatment administration through your local community.

2) Surcharges – In compliance with federal regulations, a User Charge Program ("Surcharge Program") has been developed and adopted to assess any additional treatment costs for the discharge of compatible pollutants in excess of domestic strength levels. Currently, the compatible pollutants that have an applicable User Charge are: Biochemical Oxygen Demand 5-day (BOD5), Total Suspended Solids (TSS), Fats Oil or Grease (FOG), and Phosphorous (P). (See DWSD's Surcharge Rules and Regulations).

   Your facility is subject to the Surcharge Program subject based on GLWA & permittee sampling during the year 2017.

These charges are exclusive of any fines or penalties assessed for noncompliance with the Ordinance or this wastewater discharge permit issued under the Ordinance.

SECTION I: OTHER REQUIREMENTS

1) Unless modified by an Administrative Order or Judicial Order, the permittee is required to comply with all conditions, standards, and requirements of this permit. Failure to comply will result in enforcement action.

2) Notice of Hazardous Waste - As part of its Wastewater Discharge Permit re- application, the permittee shall submit certified notice of any discharge which would be a hazardous waste under 40 CFR §261, in accordance with 40 CFR 403.12(p). The permittee shall update this information as necessary, but no less frequent than every five (5) years.

3) Slug Control/Spill Prevention Plan – The permittee is required to develop, submit and implement a Slug Control/Spill Prevention Plan (SC/SPP) against accidental discharges to the POTW, in accordance with the City of Detroit Ordinance 08-05.

   a) The permittee shall review its SC/SPP every two (2) years, or following any substantial change in operation impacting the potential for a slug discharge/spill to the sewer system, or following an implementation event of its SC/SPP, and modify or update the SC/SPP as necessary, submitting all changes to the GLWA.

   b) The permittee shall comply with the notification and reporting requirements (See General Terms and Conditions).

4) Periodic Compliance Report or Six Month Report - The Six Month Report (aka Periodic Compliance Report) must be submitted to the GLWA semi-annually on or before June 30th and December 31st of each year. The report must be submitted in the form prescribed by the GLWA or on an alternative form approved by the GLWA. It must contain the following requirements:

   a) Analytical part (Self-Monitoring Requirements/Wastewater Analyses);

   b) Descriptive part (i.e. facility information, water usage/discharge information, certified statement, certification, etc.)

   c) The reporting period for the CWT facility Permit shall be December through May for the June 30th report and June through November for the December 31st report.

This report shall be signed and dated by the authorized representative of the Permittee.

SECTION J: SEWERAGE FLOW SYSTEM (CWT ONLY)

1) A Sewage Flow System includes a Sewage Flow Meter(s) and non-resettable Totalizer(s) for each Sample Location(s).
2) The facility shall perform an annual maintenance evaluation of the sewerage flow system. The facility shall provide the GLWA with its certification attesting the workability/accuracy of the Sewage Flow System and last calibration date during Comprehensive Inspection (CI) or with its December 31st Six Month Report (SMR).
3) No discharge shall bypass the Sewage Flow System.
4) If the facility's sewerage flow meters malfunction, the facility must notify the GLWA at 313-297-5850 or iwc@glwater.org within forty-eight (48) hours.
5) If the facility plans to replace or install a new sewerage flow meter, the GLWA must also be notified prior to replacement or installation of the sewerage flow meter, and given a schedule for completion of the work.
6) The facility shall have or record daily flow-rates or volumes which shall be provided to the GLWA and submitted with each Six Month Report or on request of the GLWA.

SECTION K: CENTRALIZED WASTE TREATMENT POINT SOURCE CATEGORY

1) Facility Subpart Designation

   The permittee qualifies as a Centralized Waste Treatment Facility ("CWT facility"), and is authorized to accept the wastes and wastewater consistent with the applicable Subpart (see below) in accordance with the National Categorical Pretreatment Standards (40 CFR 437), and the local ordinance.

   437.46(b)(1) Subpart D- PSES Centralized Waste Treatment Multiple Wastestreams, combined waste receipts from subparts A, B & C.

2) Waste and Wastewater Prohibitions

The permittee shall not dispose or discharge to the POTW:

   a) Any waste or wastewater not identified in the permit application;
   b) Any waste or wastewater from any Centralized Waste Treatment facility subparts not authorized above;
   c) Any mixed or mixtures of waste or wastewater from any Centralized Waste Treatment facility subparts not authorized above;
   d) Any waste or wastewater containing PCBs (Polychlorinated Biphenyls).

SECTION L: WASTEWATER ACCEPTANCE REQUIREMENTS

1) The CWT facility shall maintain onsite wastewater acceptance procedures (paperwork and analyses) that are adequate and:

   a) Describes the general nature, source and processes generating the waste or wastewater;

   b) Identifies the quantity and character of toxic pollutants known or suspected to be present in the waste or wastewater;

c) Describes that the waste or wastewater is acceptable for the treatment, or equivalent treatment provided by the CWT facility, in accordance with the subpart designation in Section K.

2) The CWT facility has provided written documentation that it has developed, adopted and is implementing its wastewater acceptance procedures and that they are available on-site for review. The CWT facility shall submit a new written statement with its next wastewater discharge permit application or re-application. The statement shall be signed and dated by the authorized representative.

3) These wastewater acceptance procedures may include or incorporate the US EPA evaluation guidance criteria and numerical standards included as attachment A.

4) Unless the wastewater acceptance procedures are deemed inadequate by the GLWA in writing, the CWT facility's wastewater acceptance procedures shall be implemented as written.

5) The permittee shall provide the GLWA with access to waste manifests, and/or other bills of lading for all incoming materials, and any analytical information available and/or used in support of the accepted waste, upon the request of GLWA.

If immediate access is not feasible, then the permittee shall provide written notice within seven (7) days of the GLWA's request, (i) providing access to the documents or (ii) supply copies in either hard copy or electronic format. The information shall be made available to GLWA within thirty (30) days of the permittee's written notice.

SECTION M: INITIAL AND PERIODIC CERTIFICATION STATEMENTS (SUBPART D - ONLY)

As part of its wastewater discharge permit re-application, the permittee shall provide written certification that it has submitted the information required by 40 CFR 437.41 as its Initial Certification Statement, or as modified and described by subsequently submitted Periodic Certifications.

The permittee shall submit a Periodic Certification Statement annually, due on or before December 31st of each year, which:

1. Shall certify that the CWT facility is operating its treatment system(s) to provide equivalent treatment as set forth in its Initial Certification, or as modified and described by subsequently submitted Periodic Certifications. The Periodic Certification Statement must include the information specified in 40 CFR 437.41(a)(1-3);

2. Shall submit a description of any modifications made to the CWT facility and include or make available, supporting information needed to establish equivalent treatment.

3. Shall be signed and dated by the Permittee's Authorized Representative.

SECTION N: ON-SITE COMPLIANCE PAPERWORK (SUBPART D - ONLY)

In addition to the record-keeping requirements enumerated in 40 CFR 403.12(o), and in accordance with 40 CFR 437.41(c), the permittee shall retain and make available to the GLWA "On-site Compliance Paperwork" as specified in 40 CFR 437.41(c) (1-5), which supports the initial and periodic certification statements. This paperwork must:

1) List and describe the subcategory wastes being accepted for treatment at the facility;

2) List and describe the treatment system(s) in-place at the CWT facility, any modifications to the treatment systems and the conditions under which the systems are operated for the subcategories of wastes accepted for treatment at the CWT facility;

3) Provide information and supporting data establishing that these treatment systems will achieve equivalent treatment;

4) Describe the procedures it follows to ensure that its treatment systems are well operated and maintained; and

5) Explain why the procedures it has adopted will ensure its treatment systems are well-operated and maintained.

6) All users granted a permit from the department shall maintain records which, at a minimum, identify the source, volume, character, and constituents of the wastewater accepted for treatment and disposal. These records may be reviewed at any time by the department.

7) Upon written request from the GLWA – Industrial Waste Control Division, the CWT shall provide information requested by the department including, but not limited to the information enumerated by section 56-3-59.1(f)(1-6), of the City of Detroit Ordinance 08-05.

This information shall be maintained by the permittee in either a hard-copy or electronic format and shall be available and accessible to the GLWA upon request. Select appropriate conditions to specific SIU.

The GLWA *may request copies or print-outs of this information.*

Section O: PFAS SUBSTANCES TERMS AND CONDITIONS

The Permittee continues to accept wastewater containing Per- and Poly- fluoroalkyl Substances (PFAS), and was notified to submit a Best Management Plan (BMP) for the reduction and elimination of PFAS substances from their discharge. The following conditions shall apply concerning acceptance of wastes and wastewater by the permittee:

a) The permittee has submitted a BMP on March 28, 2019 & additional information on April 17, 2019, and has entered into a Compliance Agreement dated May 6, 2019 that describes implementation requirements. Milestone dates associated with this compliance agreement are:
   i. **September 30, 2019**: Submission of report that details (i) the effectiveness of the BMP, (ii) Source Identification Status Report, (iii) Treatment System evaluation report, and (iv) Statement of efforts to meet the PFAS compliance standards.
   ii. **January 30, 2020**: Final report submission.

b) In addition to the requirements of paragraph (a) above, the permittee shall provide a status report of compliance with the BMP in its Six Month report on or before June 30th and December 31st.

c) The permittee shall comply with the sampling and monitoring requirements specified in its BMP (Paragraph (a)). After January 1, 2020, the permittee shall implement the monitoring frequency enumerated in Section B, Table II. Note: *GLWA is open to reconsideration of this sampling frequency (Table-II) following receipt of information in the September 30th and January 30 reports identified above.*

PART II: GENERAL TERMS AND CONDITIONS

SECTION A: GENERAL PROHIBITIONS

No user shall discharge or cause to be discharged into the POTW, directly or indirectly, any pollutant or wastewater which will cause interference or pass through. It shall be unlawful for a user to discharge into the POTW:

1) Any liquid, solid or gas, which by reason of its nature or quantity, is sufficient either alone or by interaction with other substances to create a fire or explosion hazard or to be injurious in any other way to persons, to the POTW, or to the operations of the POTW. Pollutants, which create a fire or explosion hazard in a POTW, include, but are not limited to, wastestreams with a closed cup flash point of less than 140°F or 60°C using the test methods specified in 40 C.F.R. § 261.21; or
2) Any solid or viscous substance in concentrations or quantities, which are sufficient to cause obstruction to the flow in a sewer or other encumbrances to the operation of the POTW, including, but not limited to, grease, animal guts or tissues, bones, hair, hides or fleshing, entrails, whole blood, feathers, ashes, cinders, sand, cement, spent lime, stone or marble dust, metal, glass, straw, shavings, grass clippings, rags, strings, fibers, spent grains, spent hops, wastepaper, wood, plastics, tar, asphalt residues, residues from refining or processing of fuel or lubricating oil, mud or glass grinding or polishing wastes, or tumbling and deburring stones; or
3) Any wastewater containing petroleum oil, non-biodegradable cutting oil, products of mineral oil origin, or toxic pollutants in sufficient concentration or quantity either singly or by interaction with other pollutants to cause interference, or pass through, or constitute a hazard to humans or animals; or
4) Any liquid, gas, solid or form of energy, which either singly or by interaction with other waste is sufficient to create toxic gas, vapor, or fume within the POTW in quantities that may cause acute worker health and safety problems, or may cause a public nuisance or hazard to life, or are sufficient to prevent entry into the sewers for their maintenance and repair; or
5) Any substance which is sufficient to cause the POTW's effluent or any other product of the POTW, such as residue, sludge, or scum to be unsuitable for reclamation processing where the POTW is pursuing a reuse and reclamation program. In no case shall a substance discharged into the POTW cause the POTW to be in noncompliance with sludge use or disposal criteria guidelines or regulations developed under 33 U.S.C. § 1345, with any criteria, guidelines, or developed and promulgated regulations affecting sludge use or disposal developed pursuant to the Solid Waste Disposal Act, the Federal Clean Air Act, the Federal Toxic Substances Control Act, or with state criteria applicable to the sludge management method being used; or
6) Any substance which will cause the POTW to violate either the Consent Judgment in U.S. EPA v City of Detroit et al, Federal District Court for the Eastern District of Michigan Case No. 77-1100, or the City's National Pollutant Discharge Elimination System permit; or
7) Any discharge having a color uncharacteristic of the wastewater being discharged; or

8) Any wastewater having a temperature which will inhibit biological activity in the POTW treatment plant resulting in interference, but in no case wastewater with a temperature at the introduction into a public sewer which exceeds 150°F or which will cause the influent at the wastewater treatment plant to rise above 104°F (40°C); or
9) Any pollutant discharge which constitutes a slug; or
10) Any wastewater containing any radioactive wastes or isotopes of such half-life or concentration as may exceed limits established in compliance with applicable federal or state regulations; or
11) Any floating fats, oil or grease which are sufficient to cause interference with or pass through the POTW; or
12) Any solid materials having a specific gravity greater than 1.2 or a cross section dimension of one-half (½) inch or greater which are sufficient to cause interference with the POTW.

SECTION B: GENERAL TERMS AND CONDITIONS

The Permittee is authorized to discharge industrial wastewater to the GLWA's sewer system in compliance with the City of Detroit Wastewater Discharge Ordinance or equivalent local ordinance and any applicable provisions of federal or state law or regulation, and in accordance with discharge point(s), effluent limitations, monitoring requirements, and other conditions set forth herein.

1) **Records for monitoring activities** shall be maintained in accordance with ordinance requirements and shall include the following information for all samples:

   a) The date, time, exact place and method of sampling
   b) The names of persons taking the sample
   c) The technique or method of analysis, the date and results of analysis
   d) The names of person performing the analysis

2) **Notification and Reporting Requirements** – The following telephone contact numbers are available for providing notice to the GLWA:

   To report Spills, Upsets, Bypasses or Environmental emergencies: 24-hour Numbers: Systems Control Center
   (313) 267-6000

   Wastewater Treatment Plant
   (313) 297-0322 or 297-0326

   Non-emergency Number: Industrial Waste Control Office
   (313) 297-5850
   iwc@glwater.org

   a) **Sampling Violations (Self Monitoring) -** Within twenty-four (24) hours of becoming aware of a violation, the IU shall notify GLWA by telephone at (313) 297-5826 or by email at Notice.iwc@glwater.org.

   b) **Slug Loading / Accidental Discharge -** Within one (1) hour of becoming aware of a discharge entering into the sewer system which exceeds or does not conform with federal, state or City of Detroit laws, regulations or the permit requirements, the Permittee shall telephone the GLWA at the Systems Control Center and inform the GLWA about the details of the discharge.

   c) **Upset at the IU's Pretreatment Facility -** Within twenty-four (24) hours of becoming aware of an upset, the IU shall telephone GLWA at the System Control Center and inform the GLWA about the details of the upset and discharge.

   d) **Bypass Events** – are prohibited, unless the permittee demonstrates that:

      i) The bypass was unavoidable to prevent loss of life, personal injury or severe property damage;
      ii) There was no feasible alternative to the bypass;
      iii) The permittee notifies the GLWA of the bypass event:

      (1) **Unanticipated Bypass -** Within twenty-four (24) hours of becoming aware of the bypass, IU shall telephone the GLWA at the System Control Center and inform the GLWA about the details of the discharge.

      (2) **Anticipated Bypass -** If an IU anticipates the need for a bypass, prior notice shall be submitted to the GLWA at least ten (10) days before the date of bypass. The report shall be accompanied by analytical data, if available, which shows the characteristics of the material to be bypassed. Upon evaluation, the GLWA will provide the IU with its determination on the bypass.

   e) **Submission of Report -** For the incidents b, c, or d, a written report shall be submitted to the GLWA within five (5) calendar days of becoming aware of the incident. This report shall contain the following information:

      i) A description of the discharge and the cause of the incident;
      ii) The duration of the incident including exact dates and times or, if not corrected, the anticipated time the incident is expected to continue;
      iii) Steps being taken and/or planned to reduce, eliminate and prevent future occurrences of a similar incident.

   The IU may also have certain notification requirements under applicable federal regulations, including but not limited to 40 CFR Part 403.

3) **Limitations on Permit Transfer** - The wastewater discharge permit shall not be reassigned or transferred without the written approval of the GLWA and provision of a copy to the new owner or operator. The permittee shall notify the GLWA of any such changes at least thirty (30) days prior to the change.

4) **Duty to Provide Notice of Material or Substantive Change** - The permittee shall notify the GLWA of any material or substantial change to the facility, its operations, or changes in the characteristics of the Permittee's effluent, including but not limited to the method, frequency or volume of discharge, within thirty (30) days of the change.

5) **Confidential Information** - Except for data accepted as confidential under the ordinance, all information and data regarding the permittee obtained from written reports, questionnaires, permit applications, permits, monitoring programs and inspections shall be available to the public or other government agencies without restriction. If a permittee submits information claimed to be Confidential Information it must be clearly marked "Confidential". The GLWA shall make a determination in accordance with 56-3-64.1.

6) **Legal Actions**
   a) Any user who violates any local provision, including the failure to pay any fees, charges, or surcharges imposed hereby, or any condition or limitation of a permit issued pursuant thereto or who knowingly makes any false statements,

representation, or certification in any application, record, report, plan, or other document filed or required to be maintained pursuant to this ordinance or wastewater discharge permit or who tampers with, or knowingly renders inaccurate any monitoring device required under this ordinance is guilty of a misdemeanor and shall, upon conviction, be punished by a fine not to exceed $500 for each violation per day or by imprisonment for not more than ninety (90) days or by both. The GLWA is hereby authorized to seek, through its counsel, prosecution of criminal charges against any person violating any provision of this ordinance.

b) If any person discharges sewage, industrial wastes, or other wastes into the POTW contrary to the provisions of the ordinance, permit or order issued thereunder, the Director or Board may commence a civil action to enjoin such discharge or to enforce compliance with this ordinance, permit or order issued thereunder, in the Circuit Court for the County of Wayne or other appropriate court. Upon a proper showing of a violation of this ordinance, permit or order issued thereunder, a permanent or temporary injunction may be granted without bond. The GLWA or Board may also seek additional legal and/or equitable relief. Instituting suit in the Circuit Court does not constitute as exclusive election of remedies and does not prohibit the GLWA, Director, Board, or City of Detroit from commencing action in Federal Court for discharges believed to be in violation of this ordinance, State and Federal requirements pursuant to the Clean Water Act, the NPDES permit, or other applicable laws or requirements. The GLWA may also recover reasonable attorney fees, court costs, court reporters fees, and other unusual expenses related to enforcement activities or litigation against the person found to have violated this ordinance or the orders, rules, regulations, and permits issued hereunder.

c) All fines, costs and penalties which are imposed by any court of competent jurisdiction shall be payable to the clerk of such court, who shall deposit the same with the City Treasurer, all of which fines, costs, and penalties shall be credited to the appropriate fund of the GLWA.

7) **All reports shall be addressed to:**

Great Lakes Water Authority
Industrial Waste Control Division,
9300 West Jefferson, Suite 210
Detroit, Michigan 48209

8) **Requirement to Reapply** - This permit shall expire on the expiration date identified. Existing permittees shall apply for permit reissuance a minimum of ninety (90) days prior to the expiration of existing permits on a form prescribed by the GLWA. Upon timely application for reissuance of a permit, the expired permit shall be automatically extended until modified or reissued by the GLWA. Failure to submit a timely reapplication for reissuance may result in a delayed issuance of a permit and a cessation of unpermitted discharges to the sewer system.

9) **Records Retention** - The permittee shall maintain records of all information from monitoring activities, permit requirements, or 40 CFR 403.12 for no less than three years.

10) **Operation and Maintenance of Pretreatment Facilities** - The permittee shall operate and maintain any and all pretreatment facilities in a prudent and professional manner. Records of operation and maintenance shall be provided to the GLWA for review, upon request.

11) **Right of Entry** - The GLWA's employees or authorized representative shall have ready access to the Permittee's premises to engage in inspection, sampling, compliance monitoring and/or metering activities. Each such activity shall be commenced and completed at reasonable times, and in a reasonable manner. It is the permittees' responsibility to make prompt and necessary arrangements so that upon presentation of appropriate credentials, personnel from the GLWA will be permitted to enter immediately for the purposes of performing their specific responsibilities.

Denial of access to any authorized GLWA representative shall result in enforcement action.

12) **Permit Modification** - The terms and conditions of this permit are subject to modification during the term of the permit in accordance with the City of Detroit Ordinance 08-05 Sec. 56-3-61.1 (g)(1-12).

13) **Permit Revocation** - The GLWA may revoke this permit at any time in accordance with applicable law. Actions for which a permit may be revoked include, but are not limited to, failure of a Permittee to comply with the permit, failure to comply with an administrative order, or court order, discharging wastewater which has the potential to or does threaten the POTW or the community, discharges which would cause the POTW to violate its NPDES permit.

Where such action is taken by the GLWA, the former permittee shall have an opportunity for a hearing for permit reinstatement in accordance with applicable law.

14) **Mercury and Total PCB compliance** - shall be based upon compliance with section 56-3-59.1(b)(2) of the Detroit City Code:

a) The limitation for Total PCB is Non-detect. Total PCB shall not be discharged at detectable levels, based upon U.S. EPA Method 608.3, and the quantification level shall not exceed 0.2 µg/l, unless a higher level is appropriate because of demonstrated sample matrix interference.

b) The Limitation for Mercury (Hg) is Non-detect. Mercury (Hg) shall not be discharged at detectable levels, based upon U.S. EPA Method 245.1, and the quantification level shall not exceed 0.2 µg/l, unless a higher level is appropriate because of demonstrated sample matrix interference.

SECTION C: DEFINITIONS AND REQUIREMENTS

1. 4-DAY Average Limitation is the highest allowable mass or concentration standard of discharges over four (4) consecutive, independent daily sampling events. Compliance with this limitation is calculated as the summation of individual daily discharge, measurements for a parameter taken during four (4) consecutive daily sampling events divided by four (4). The four (4) consecutive sampling events need not occur on consecutive calendar days.

2. 30-DAY Average Limitation is the summation of individual daily measurements for a parameter during a thirty (30) consecutive calendar day period, divided by the number of individual measurements for that parameter taken during that thirty (30) day period. The recommended minimum number of samples (1 set) required to demonstrate compliance are ten (10) independent daily samples.

3. Authorized Representative – means the person defined in section 56-3-58.1(a) of the Detroit City Code, or the person designated as a duly authorized representative made in conformance with section 56-3-59.1(n) of the Detroit City Code.

4. **Authority** – means the Great Lakes Water Authority, and authorized employees of the GLWA. See also Control Authority.

5. Available Cyanide – means the quantity of cyanide that consists of cyanide ion (AVCN); hydrogen cyanide in water (HAVCNaq); and the cyano-complexes of zinc, copper, cadmium, mercury, nickel, and silver, determined by EPA method OIA-1677, or other method designated as a Standard Method or approved under 40 CFR Part 136.
6. Batch Discharge A non-continuous release of treated wastewater, resulting from a collection of one or more compatible wastestreams whose volume, duration or frequency of generation warrant periodic releases as the most efficient and effective means of discharge.

7. Best Management Practices (BMP) – means programs, practices, procedures or other directed efforts, initiated and implemented by a User, which can or does lead to the reduction, conservation or minimization of pollutants being introduced into the ecosystem, including but not limited to the Detroit sewer system. BMPs include, but are not limited to, equipment or technology modifications, process or procedure modifications, reformulation or redesign of products, substitution of raw materials, and improvements in housekeeping, maintenance, training, or inventory control, and may include technical and economic considerations.

8. Continuous Discharge - means a "discharge" which occurs without interruption throughout the operating hours of the Permittee, except for infrequent shutdowns for maintenance, process changes, or other similar activities.

9. Control Authority - means the Detroit Water and Sewerage Department, or its agent Great Lakes Water Authority, which have been officially designated as such by the Michigan Department of Environmental Quality under the provisions of 40 CFR 403.11, 40 CFR 403.9, and 40 CFR 403.12.

10. **Daily Maximum Limitation** is the maximum allowable discharge of pollutant on a single calendar day.

11. Intermittent Batch Discharge - A non-continuous release of treated wastewater, resulting from a collection of one or more compatible wastestreams whose volume, duration or frequency of generation warrant periodic releases as the most efficient and effective means of discharge. Batch discharges are classified as intermittent when there is a period of more than thirty (30) days between batch discharges.

12. Monthly Average Limitation is the summation of individual daily measurements for a parameter during a calendar month, divided by the number of individual measurements for that parameter taken during that month. The recommended minimum number of samples (1 set) required to demonstrate compliance are ten (10) independent daily samples.

13. Permittee means the Company Name in Section A of this Wastewater Discharge Permit. As used within this Wastewater Discharge Permit, it also means the Industrial User, or User.

14. PFAS Substances means the list of perfluoroalkyl and polyfluoroalkyl substances that the MDEQ has identified as emerging contaminants; which includes: Perfluorotetradecanoic acid (PFTA), Perfluorotridecanoic acid (PFTrDA), Perfluorododecanoic acid (PFDoA), Perfluoroundecanoic acid (PFUnA), Perfluorodecanoic acid (PFDA), Perfluorononanoic acid (PFNA), Perfluorooctanoic acid (PFOA), Perfluoroheptanoic acid (PFHpA), Perfluorohexanoic acid (PFHxA), Perfluoropentanoic acid (PFPeA), Perfluorobutanoic acid (PFBA), Perfluorodecanesulfonic acid (PFDS), Perfluorononanesulfonic acid (PFNS), Perfluorooctanesulfonic acid (PFOS), Perfluoroheptanesulfonic acid (PFHpS), Perfluorohexanesulfonic acid (PFHxS), Perfluoropentanesulfonic acid (PFPeS), Perfluorobutanesulfonic acid (PFBS), Perfluorooctanesulfonamide (PFOSA), Fluorotelomer sulphonic acid 8:2 (FtS 8:2), Fluorotelomer sulphonic acid 6:2 (FtS 6:2), Fluorotelomer sulphonic acid 4:2 (FtS 4:2), 2-(N-Ethylperfluorooctanesulfonamido) acetic acid (NEtFOSAA), 2-(NMethylperfluorooctanesulfonamido) acetic acid (NMeFOSAA); or as amended.

15. Publicly Owned Treatment Works (POTW) means a treatment works as defined by 33§ 1292(2)(A) which is owned **or operated,** by a state or municipality, as defined in 33 U.S.C. § 1362, including:
    a. Any devices and systems used in the storage, treatment, recycling, or reclamation of municipal sewage or industrial wastes of a liquid nature; or

    b. Sewers, pipes and other conveyances only if they convey wastewater to a POTW treatment plant; or

    c. The municipality, as defined in 33 U.S.C. § 1362, which has jurisdiction over the indirect discharges to and the discharges from such a treatment works.

16. Quantification Level – means the measurement of the concentration of a contaminant obtained by using a specified laboratory procedure calculated at a specified concentration above the detection level. It is considered the lowest concentration at which a particular contaminant can be quantitatively measured using a specified laboratory procedure for monitoring of the contaminant.

17. **Total PCB** – means the sum of the individual analytical results for each of the PCB aroclors 1016, 1221, 1232, 1242, 1248, 1254, and 1260 during any single sampling event with any aroclor result less than the quantification level being treated as zero.

18. **Total Phenolic Compounds** – means the sum of the individual analytical results for each of the phenolic compounds of 2-chlorophenol, 4-chlorophenol, 4-chloro-3-methylphenol, 2,4-dichlorophenol, 2,4-dinitrophenol, 4-methylphenol, 4-nitrophenol, and phenol during any single sampling event expressed in mg/l.

19. **Total Toxic Organics (TTO)** is the summation of all quantifiable values greater than 0.01 mg/l for the listed toxic organics. TTO requirement shall be as follows:

    a) All parameters shall be analyzed in accordance to 40 CFR Part 136 methods. Usage of approved analytical procedures is essential to the detection of parameters being analyzed. All MDLs should be reported with the sample results, and any cleanup procedures and sample interference shall be reported.

    b) In lieu of monitoring for TTO, facilities subject to either 40 CFR Part 413 or Part 433 may be allowed to make the TTO certification as a comment to the Six Month Report, provided:

        i. At least one (1) complete set of analytical results has been submitted for all the TTO pollutants of concern, and
        ii. The Permittee has submitted a Toxic Organic Management Plan (TOMP) in compliance with either 40 CFR Part 413 or 433 requirements, and
        iii. The TOMP has been approved by the GLWA.

20. **Total Metals** is the sum of the concentration of Copper (Cu), Nickel (Ni), Chromium (Cr) and Zinc (Zn).

Attachment A – EPA Waste Acceptance Guidance

If the CWT facility receives the wastes listed in the waste classification table, the subcategory determination may be made solely from this information. For purposes of this rule, the CWT facility need not determine the percentage of each type of waste within a subcategory or between subcategories. The CWT facility only needs to determine what subcategory the wastes fall into: one or multiple subcategories.

Table – Waste Receipt Classification

Metals Subcategory	–spent electroplating baths and/or sludges –metal finishing rinse water and sludges –chromate wastes –air pollution control blow down water and sludges –spent anodizing solutions –incineration wastewaters –waste liquid mercury –cyanide-containing wastes –waste acids and bases with or without metals –cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations –vibratory deburring wastewater –alkaline and acid solutions used to clean metal parts or equipment
Oils Subcategory	–used oils –oil-water emulsions or mixtures –lubricants –coolants –contaminated groundwater clean-up from petroleum sources –used petroleum products –oil spill clean-up –bilge water –rinse/wash waters from petroleum sources –interceptor wastes –off-specification fuels –underground storage remediation waste –tank clean-out from petroleum or oily sources –non-contact used glycols –aqueous and oil mixtures from parts cleaning operations –wastewater from oil bearing paint washes
Organics Subcategory	–landfill leachate –contaminated groundwater clean-up from non-petroleum sources –solvent-bearing wastes –off-specification organic product –still bottoms –byproduct waste glycol –wastewater from paint washes –wastewater from adhesives and/or epoxies formulation –wastewater from organic chemical product operations

	–tank clean-out from organic, non-petroleum sources

Waste Characterization Using Numerical Criteria

For wastestreams that are from non-specific sources or not listed in the waste receipt classification table, the facility should additionally complete the following steps. The facility should use data collected during the waste acceptance procedures to classify the waste into the appropriate subcategory. EPA recommends the CWT facility apply the following hierarchy:

1. If the waste receipt contains oil and grease at or in excess of 100 mg/L, the waste receipt should be classified in the oils subcategory;

1. If the waste receipt contains oil and grease <100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste receipt should be classified in the metals subcategory.

Cadmium	0.2 mg/L
Chromium	8.9 mg/L
Copper	4.9 mg/L
Nickel	37.5 mg/L

2. If the waste receipt contains oil and grease <100 mg/L and does not have concentrations of cadmium, chromium, Copper, or nickel above any of the values listed above, the waste receipt should be classified in the organics subcategory.

ATTACHMENT B – OPERATING DAY LOG FORM

1	2	3	4	5	6	7	
8	9	10	11	12	13	14	
15	16	17	18	19	20	21	
22	23	24	25	26	27	28	
29	30	31					

Each cell contains:
Frequency _____
☐ Operated
☐ Sampled
☐ Discharged
Batch _____
Volume _____

Month/Year: _____ Facility: _____

PERMIT DEFINITION

1. **FACILITY DESCRIPTION**
EQ Detroit dba US Ecology is a Centralized Waste Treatment Facility which accepts hazardous and non-hazardous wastestream from various industrial, commercial, residential, and governmental generators. The facility accepts metal, organic, and oil-bearing wastestreams for treatment. It operates 24 hours a day, seven (7) days a week, and employs 85 employees. The facility started its operations in 2004.

2. **PROCESS DESCRIPTION**
The facility receives wastestreams that may fall into one of three wastewater subcategories: metal, oil, or organic. Each wastestream is treated individually or collectively as described below.

Metal-bearing wastestreams are treated in the metal treatment tank # 201-206, 301, 302, 305 & 306, where chemicals such ferrous salts ($FeSO_4$, $FeCl_2$, or $FeCl_3$), sodium bisulfite and lime are added for pH adjustment and metal precipitation. Polymer is added for flocculation and the contents are allowed to settle (1-24 hours). After settlement, the water layer is tested before discharging to the weir box via meter #2. The treated water is checked for pollutants and visible suspended solids prior to discharge. Many times the treated water is routed through the clarifier for final polishing and goes to the weir box via meter #4. The sludge layer is pumped to a filter press. The dewatered solids (filter cake) are treated onsite, and the filtrate is sent back to the treatment tanks for metal treatment.

Oily wastestreams The facility receives two types of oily wastestreams. They are non-emulsified or emulsified oily wastestreams and are pretreated differently as follows:

a) The non-emulsified oily wastestream is stored in tank # 101-106 where it is allowed to settle for further oil/water separation. Heat is sometimes applied to accelerate the separation. After separation, the oil layer or rag oil is stored for recycling purposes. The water or aqueous layer is redirected to one of the metal treatment tanks and is treated singly or in combination with other inbound metal-bearing wastestream.

a) The emulsified oil wastestream that shows no phase separation upon arrival is taken into tank # 111-115. This is further moved to tanks # 120-123 where heat is applied to aid the oil/water separation process. Reagents such as H_2SO_4, polymers, and NaOH may also be added to further aid in the oil/water separation. The separation process leads to three-phase separation

   i. Top layer is clean oil that is sold as finished product,
   ii. Middle layer is rag oil that is recycled, and
   iii. Bottom layer is oil-free water that is routed to one of the metal pretreatment tanks.

Organic wastestreams The facility receives either a highly Impacted organic wastestream or leachate/underground wastestream. These are unloaded in tank # 301-306, 201-205,109,110 or 101-106. The treatment are as follows:

a) The highly impacted organic wastestream is pretreated by: 1) addition of $FeCl_3$ or lime to adjust the pH, 2) addition of H_2O_2 to oxidize the organic compounds, and 3) addition of defoamer to minimize foaming during the treatment. The wastestream is allowed to stabilize for few hours prior to sampling and to ensure that the organics have been destroyed. Finally, the wastestream is redirected to one of the metal treatment tanks and is treated singly or In combination with other inbound metal-bearing wastestream.

a) Leachate and other underground wastestreams: It is unloaded in tanks 101-106 or 109-110 or 513-516. It is tested for regulated organics and regulated metals. If organics are detected, the wastestream is directed to the highly impacted organic wastestream to be treated. If metals are detected, the wastestream is direted to be treated with the metal bearing waste. If organic or metals are not detected,the wastestream undergoes gravity separation & passes through meter #1 or Is bag filtered and discharged through meter #3.

3. **APPLICABLE CLASSIFICATION**
The facility is classified as a Categorical Significant Industrial User (SIU) under 40 CFR Part 437.46 (b), Subpart D-combined waste receipts from Subparts A, B and C (PSES). The indicated Subpart is for combined waste receipts that include metals, oil, and organic-bearing wastestreams. The facility discharges more than 25,000 gpd of treated process wastewater.

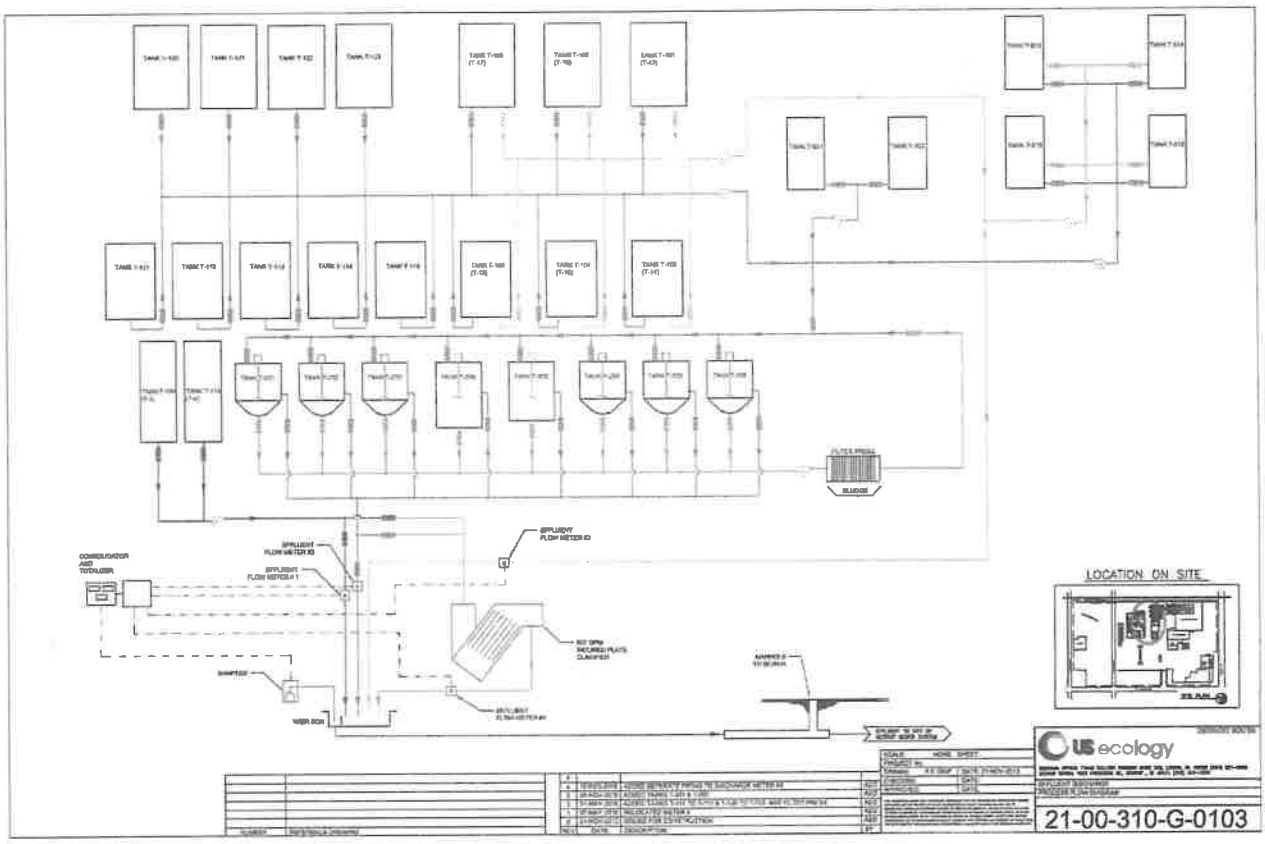
4. **WASTEWATER DISCHARGE FLOW INFORMATION**

Process wastewater	183,207 gpd average
Sanitary	2,000 gpd
Total Plant Flow	185,207 gpd

6. **SOURCES OF INFORMATION**
   i) Permit Re-application dated November 26, 2018
   i) Comprehensive Inspection dated May 15, 2019
   ii) Equivalent Treatment Demonstration dated November 21, 2018
   iii) Permit Addendum dated December 13, 2018.

Prepared by: Roxann George Reviewed by: [signature]

Date: 6/10/2019 Date: 06/10/2019


LOCATION ON SITE
ecology
21-00-310-G-0103

RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING

C. HEIDI GRETHER
DIRECTOR

February 21, 2018

Mr. Raymond Landsberg, General Manager
EQ Detroit, Inc. (DBA US Ecology)
1923 Frederick Street
Detroit, Michigan 48192

Dear Mr. Landsberg:

This letter is in reference to your Permit to Install (PTI) application for modifying the number of doors that can be open during normal operation at the TSDF (State Registration Number M4545) located at 1923 Frederick Street, Detroit, Michigan. This application, identified as No. 269-04H, has been evaluated and approved by the Air Quality Division, pursuant to the delegation of authority from the Michigan Department of Environmental Quality (DEQ).

This approval is based upon and subject to compliance with all administrative rules promulgated pursuant to Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and conditions stipulated in the enclosed supplement. Please review these conditions thoroughly so that you may take the actions necessary to ensure compliance with all of these conditions.

Please note, this facility is an existing opt-out source. This new permit continues to include the enforceable limits for volatile organic compounds and hazardous air pollutants, which were previously accepted to restrict the facility's potential to emit to less than the major source threshold to opt out of the National Emission Standards for Hazardous Air Pollutants and the Renewable Operating Permit Program.

Also, PTI No. 269-04G has been voided because the equipment is now covered by PTI No. 269-04H.

To help us improve the service we provide our customers, we encourage you to complete a *Permit to Install Customer Service Survey* on the following Web page:

https://www.surveymonkey.com/s/aqdptics

Please contact me if you have any questions regarding this permit.

Sincerely,

Andrew J. Drury, Senior Environmental Engineer
General Manufacturing/Chemical Process Unit
Permit Section, Air Quality Division
517-284-6792
drurya@michigan.gov

Enclosures
cc/enc: Ms. Mina McLemore, DEQ

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

February 5, 2018

PERMIT TO INSTALL
269-04H

ISSUED TO
EQ Detroit, Inc. (DBA US Ecology)

LOCATED AT
1923 Frederick Street
Detroit, Michigan

IN THE COUNTY OF
Wayne

STATE REGISTRATION NUMBER
M4545

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environmental Quality. This permit is hereby issued in accordance with and subject to Section 5505(1) of Article II, Chapter I, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Pursuant to Air Pollution Control Rule 336.1201(1), this permit constitutes the permittee's authority to install the identified emission unit(s) in accordance with all administrative rules of the Department and the attached conditions. Operation of the emission unit(s) identified in this Permit to Install is allowed pursuant to Rule 336.1201(6).

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203: **January 5, 2018**	
DATE PERMIT TO INSTALL APPROVED: **February 5, 2018**	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY - AIR QUALITY DIVISION

DEQ

PERMIT TO INSTALL APPLICATION

For authority to install, construct, reconstruct, relocate, or modify process, fuel-burning or refuse burning equipment and/or control equipment. Permits to install are required by administrative rules pursuant to Section 5505 of 1994 PA 451, as amended.

FOR DEQ USE
APPLICATION NUMBER
269-04H

Please type or print clearly. The "Application Instructions" and "Information Required for an Administratively Complete Permit to Install Application" are available on the Air Quality Division (AQD) Permit Web Page at http://www.deq.state.mi.us/aps. Please call the AQD at 517-284-6804 if you have not been contacted within 15 days of your application submittal.

RECEIVED
JAN 0 5 2018
AIR QUALITY DIV.

1. FACILITY CODES: State Registration Number (SRN) and North American Industry Classification System (NAICS)
SRN: M4545 NAICS: 562211

2. APPLICANT NAME: (Business License Name of Corporation, Partnership, Individual Owner, Government Agency)
EQ Detroit, Inc. (DBA US Ecology)

3. APPLICANT ADDRESS: (Number and Street) | MAIL CODE:
1923 Frederick Street

CITY: (City, Village or Township) | STATE: | ZIP CODE: | COUNTY:
Detroit | MI | 48192 | Wayne

4. EQUIPMENT OR PROCESS LOCATION: (Number and Street – if different than Item 3)

CITY: (City, Village or Township) | ZIP CODE: | COUNTY:

5. GENERAL NATURE OF BUSINESS:
TSDF for Hazardous and Non-hazardous Liquid and Solid Industrial Waste

6. EQUIPMENT OR PROCESS DESCRIPTION: (A Description MUST Be Provided Here. Include Emission Unit IDs. Attach additional sheets if necessary, number and date each page of the submittal.)

USE-DS would like to propose changing Special Condition EUTREATMENT III.2 to allow only one bay door and the container storage door to be open during normal operation. There are several large bay doors and a smaller container storage door. The intent would be for the container storage door to be utilized any time there is normal operation and when one bay door is being utilized. Additionally, the language for the shredder can be removed as it is no longer installed. Therefore, the new PTI, presumably No. 269-04H, Special Condition EUTREATMENT III.2 would state "the permittee shall keep no more than one bay door to the EUTREATMENT building open and the container storage door open during normal operation. Normal operation is defined as any period that:

a. Material in the treatment vaults is uncovered.
b. Material in the treatment vaults has been covered for less than two hours.
c. The pug mill is operating or has been covered for less than two hours.
d. Any period when waste has been charged into or discharged from a vault in the previous two hours."

7. REASON FOR APPLICATION: (Check all that apply.)
- ☐ INSTALLATION / CONSTRUCTION OF NEW EQUIPMENT OR PROCESS
- ☒ RECONSTRUCTION / MODIFICATION / RELOCATION OF EXISTING EQUIPMENT OR PROCESS – DATE INSTALLED:
- ☐ OTHER – DESCRIBE:

8. IF THE EQUIPMENT OR PROCESS THAT WILL BE COVERED BY THIS PERMIT TO INSTALL (PTI) IS CURRENTLY COVERED BY ANY ACTIVE PERMITS, LIST THE PTI NUMBER(S): 269-04G

9. DOES THIS FACILITY HAVE AN EXISTING RENEWABLE OPERATING PERMIT (ROP)? ☒ NOT APPLICABLE ☐ PENDING APPLICATION ☐ YES
PENDING APPLICATION OR ROP NUMBER:

10. AUTHORIZED EMPLOYEE: Raymond D. Landsberg | TITLE: General Manager | PHONE NUMBER: (Include Area Code) 313-347-1300
SIGNATURE: | DATE: | E-MAIL ADDRESS: raymond.landsberg@usecology.com

11. CONTACT: (If different than Authorized Employee. The person to contact with questions regarding this application) Tabetha Peebles | PHONE NUMBER: (Include Area Code) 313-347-1328
CONTACT AFFILIATION: Environmental Compliance Manager | E-MAIL ADDRESS: tabetha.peebles@usecology.com

12. IS THE CONTACT PERSON AUTHORIZED TO NEGOTIATE THE TERMS AND CONDITIONS OF THE PERMIT TO INSTALL? ☒ YES ☐ NO

FOR DEQ USE ONLY - DO NOT WRITE BELOW

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203: 1/5/18

DATE PERMIT TO INSTALL APPROVED: 2/5/18 | SIGNATURE:

DATE APPLICATION / PTI VOIDED: | SIGNATURE:

DATE APPLICATION DENIED: | SIGNATURE:

A PERMIT CERTIFICATE WILL BE ISSUED UPON APPROVAL OF A PERMIT TO INSTALL

EQP 5615E (Rev. 09/2015)

PERMIT TO INSTALL

Table of Contents

Common Abbreviations / Acronyms

Common Acronyms		Pollutant / Measurement Abbreviations	
AQD	Air Quality Division	acfm	Actual cubic feet per minute
BACT	Best Available Control Technology	BTU	British Thermal Unit
CAA	Clean Air Act	°C	Degrees Celsius
CAM	Compliance Assurance Monitoring	CO	Carbon Monoxide
CEM	Continuous Emission Monitoring	CO_2e	Carbon Dioxide Equivalent
CFR	Code of Federal Regulations	dscf	Dry standard cubic foot
COM	Continuous Opacity Monitoring	dscm	Dry standard cubic meter
Department/ department	Michigan Department of Environmental Quality	°F	Degrees Fahrenheit
EU	Emission Unit	gr	Grains
FG	Flexible Group	HAP	Hazardous Air Pollutant
GACS	Gallons of Applied Coating Solids	Hg	Mercury
GC	General Condition	hr	Hour
GHGs	Greenhouse Gases	HP	Horsepower
HVLP	High Volume Low Pressure*	H_2S	Hydrogen Sulfide
ID	Identification	kW	Kilowatt
IRSL	Initial Risk Screening Level	lb	Pound
ITSL	Initial Threshold Screening Level	m	Meter
LAER	Lowest Achievable Emission Rate	mg	Milligram
MACT	Maximum Achievable Control Technology	mm	Millimeter
MAERS	Michigan Air Emissions Reporting System	MM	Million
MAP	Malfunction Abatement Plan	MW	Megawatts
MDEQ	Michigan Department of Environmental Quality	NMOC	Non-methane Organic Compounds
MSDS	Material Safety Data Sheet	NO_x	Oxides of Nitrogen
NA	Not Applicable	ng	Nanogram
NAAQS	National Ambient Air Quality Standards	PM	Particulate Matter
NESHAP	National Emission Standard for Hazardous Air Pollutants	PM10	Particulate Matter equal to or less than 10 microns in diameter
NSPS	New Source Performance Standards	PM2.5	Particulate Matter equal to or less than 2.5 microns in diameter
NSR	New Source Review	pph	Pounds per hour
PS	Performance Specification	ppm	Parts per million
PSD	Prevention of Significant Deterioration	ppmv	Parts per million by volume
PTE	Permanent Total Enclosure	ppmw	Parts per million by weight
PTI	Permit to Install	psia	Pounds per square inch absolute
RACT	Reasonable Available Control Technology	psig	Pounds per square inch gauge
ROP	Renewable Operating Permit	scf	Standard cubic feet
SC	Special Condition	sec	Seconds
SCR	Selective Catalytic Reduction	SO_2	Sulfur Dioxide
SNCR	Selective Non-Catalytic Reduction	TAC	Toxic Air Contaminant
SRN	State Registration Number	Temp	Temperature
TEQ	Toxicity Equivalence Quotient	THC	Total Hydrocarbons
USEPA/EPA	United States Environmental Protection Agency	tpy	Tons per year
VE	Visible Emissions	µg	Microgram
		µm	Micrometer or Micron
		VOC	Volatile Organic Compounds
		yr	Year

*For HVLP applicators, the pressure measured at the gun air cap shall not exceed 10 psig.

GENERAL CONDITIONS

1. The process or process equipment covered by this permit shall not be reconstructed, relocated, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule. **(R 336.1201(1))**

2. If the installation, construction, reconstruction, relocation, or modification of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the permittee or the designated authorized agent shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environmental Quality, P.O. Box 30260, Lansing, Michigan 48909-7760, if it is decided not to pursue the installation, construction, reconstruction, relocation, or modification of the equipment allowed by this Permit to Install. **(R 336.1201(4))**

3. If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to R 336.1210, operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install. **(R 336.1201(6)(b))**

4. The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Department's rules or the Clean Air Act. **(R 336.1201(8), Section 5510 of Act 451, PA 1994)**

5. The terms and conditions of this Permit to Install shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by this Permit to Install. If the new owner or operator submits a written request to the Department pursuant to R 336.1219 and the Department approves the request, this permit will be amended to reflect the change of ownership or operational control. The request must include all of the information required by subrules (1)(a), (b), and (c) of R 336.1219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environmental Quality. **(R 336.1219)**

6. Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property. **(R 336.1901)**

7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal conditions or malfunction has been corrected, or within 30 days of discovery of the abnormal condition or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5). **(R 336.1912)**

8. Approval of this permit does not exempt the permittee from complying with any future applicable requirements which may be promulgated under Part 55 of 1994 PA 451, as amended or the Federal Clean Air Act.

9. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.

10. Operation of this equipment may be subject to other requirements of Part 55 of 1994 PA 451, as amended and the rules promulgated thereunder.

11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of R 336.1301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with R 336.1303. **(R 336.1301)**
    a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
    b) A visible emission limit specified by an applicable federal new source performance standard.
    c) A visible emission limit specified as a condition of this Permit to Install.

12. Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in R 336.1370(2). **(R 336.1370)**

13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with R 336.2001 and R 336.2003, under any of the conditions listed in R 336.2001. **(R 336.2001)**

SPECIAL CONDITIONS

EMISSION UNIT SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Emission Unit ID	Emission Unit Description (Process Equipment & Control Devices)	Flexible Group ID
EUTREATMENT	EQ Detroit waste management facility. Consists of a waste stabilization operation which processes hazardous and non-hazardous off-site waste using chemical stabilization. Reagents include: lime, cement kiln dust, ferrous sulfate, sand, and fly ash. All emissions from the stabilization building are controlled by a baghouse and vented to the atmosphere through two stacks.	FGFACILITY
EUTANK13	Tank for primary processing of oil/water mixtures. Tank emissions are controlled by a packed bed scrubber.	FGPRIMARYTANKS FGOILRECOVERY
EUTANK14	Tank for primary processing of oil/water mixtures. Tank emissions are controlled by a packed bed scrubber.	FGPRIMARYTANKS FGOILRECOVERY
EUTANK15	Tank for primary processing of oil/water mixtures. Tank emissions are controlled by a packed bed scrubber.	FGPRIMARYTANKS FGOILRECOVERY
EUTANK16	Tank for primary processing of oil/water mixtures. Tank emissions are controlled by a packed bed scrubber.	FGPRIMARYTANKS FGOILRECOVERY
EUTANK17	Tank for primary processing of oil/water mixtures. Tank emissions are controlled by a packed bed scrubber.	FGPRIMARYTANKS FGOILRECOVERY
EUTANK18	Tank for primary processing of oil/water mixtures. Tank emissions are controlled by a packed bed scrubber.	FGPRIMARYTANK FGOILRECOVERY
EUTANK120	Tank for secondary processing of oil/water mixtures. Tank emissions are controlled by a packed-bed scrubber.	FGSECONDARYTANKS FGOILRECOVERY
EUTANK121	Tank for secondary processing of oil/water mixtures. Tank emissions are controlled by a packed-bed scrubber.	FGSECONDARYTANKS FGOILRECOVERY
EUTANK122	Tank for secondary processing of oil/water mixtures. Tank emissions are controlled by a packed-bed scrubber.	FGSECONDARYTANKS FGOILRECOVERY
EUTANK123	Tank for secondary processing of oil/water mixtures. Tank emissions are controlled by a packed-bed scrubber.	FGSECONDARYTANKS FGOILRECOVERY
EUSILO1	Storage container for solid material used in EUTREATMENT. Solid material could be lime, cement kiln dust, or fly ash.	FGFACILITY
EUSILO2	Storage container for solid material used in EUTREATMENT. Solid material could be lime, cement kiln dust, or fly ash.	FGFACILITY
EUSILO3	Storage container for solid material used in EUTREATMENT. Solid material could be lime, cement kiln dust, or fly ash.	FGFACILITY
EUSILO4	Storage container for solid material used in EUTREATMENT. Solid material could be lime, cement kiln dust, or fly ash.	FGFACILITY
EUSILO5	Storage container for solid material used in EUTREATMENT. Solid material could be lime, cement kiln dust, or fly ash.	FGFACILITY
EUOILRECOVERY	Oil recovery process. Oils are separated from oil/water mixtures in multiple stages using heat and chemicals.	FGOILRECOVERY
Changes to the equipment described in this table are subject to the requirements of R 336.1201, except as allowed by R 336.1278 to R 336.1290.		

The following conditions apply to: EUTREATMENT

DESCRIPTION: EQ Detroit waste management facility. Consists of a waste stabilization operation which processes hazardous and non-hazardous off-site waste using chemical stabilization. Reagents include: lime, cement kiln dust, ferrous sulfate, sand, and fly ash.

Flexible Group ID: FGFACILITY

POLLUTION CONTROL EQUIPMENT: All emissions from the stabilization building are controlled by a baghouse and vented to the atmosphere through two stacks.

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. PM	0.002 grains/dscf	Test protocol*	EUTREATMENT	GC 13	R 336.1225, R 336.1331
2. PM	4.3 pph	Test protocol*	EUTREATMENT	GC 13	R 336.1225, R 336.1331
3. VOC	25.0 pph	Test protocol*	EUTREATMENT	GC 13	R 336.1225, R 336.1702(a)

* Test protocol shall specify averaging time

II. MATERIAL LIMITS

Material	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC content of liquid waste received	500 ppmw hazardous waste	Each load of liquid waste received	EUTREATMENT	SC VI.1	R 336.1225, R 336.1702(a)
2. VOC content of liquid waste received	5.0% by weight non-hazardous waste	Each load of liquid waste received	EUTREATMENT	SC VI.1	R 336.1225, R 336.1702(a)

* Test protocol shall specify averaging time

3. The waste streams processed in EUTREATMENT shall not contain any of the following compounds in excess of 500ppm: **(R 336.1225, R 336.1901)**
   a. Benzylamine
   b. 2-Butanethiol
   c. Butyric Acid
   d. Diethyl Sulfide
   e. Dimethyl Sulfide
   f. Diethylamine
   g. Diisobutyl Ketone
   h. Ethanethiol
   i. Methylamine
   j. Thioglycolic Acid
   k. Thionyl Chloride
   l. Thiram
   m. Trimethylamine
   n. 1,4-Dichlorobenzene
   o. Benzene
   p. Bromodichloromethane
   q. 1,1,2,2-tetrachloroethane
   r. 1,2-Dichloropropane
   s. 1,1,2-Trichoroethane
   t. Bromomethane
   u. 1,2-Dichloroethane
   v. Dibromochloromethane
   w. Vinyl chloride
   x. Carbon Tetrachloride

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not operate EUTREATMENT unless the program for continuous fugitive dust emissions control has been implemented and is maintained. The plan for continuous control of fugitive dust emissions consists of wetting or sweeping of all paved roads and parking lots at least once a day, weather permitting, or an alternative method or frequency approved by the District Supervisor. **(R 336.1372, Act 451 324.5524)**

2. The permittee shall keep no more than one bay door to the EUTREATMENT building open and the container storage door open during material loading, material unloading, and normal operation. Normal operation is defined as any period that: **(R 336.1901)**
   a. Material in the treatment vaults is uncovered.
   b. Material in the treatment vaults has been covered for less than two hours.
   c. The pug mill is operating or has been covered for less than two hours.
   d. Any period when waste has been charged into or discharged from a vault in the previous two hours.

3. The permittee shall maintain negative pressure in the EUTREATMENT building during normal operation. This includes, but is not limited to, complying with SC III.2 and maintaining the treatment building's proper structural integrity. Negative pressure shall be verified using the procedure outlined in SC V.1. **(R 336.1901)**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate EUTREATMENT unless the fabric filter (baghouse) is installed, maintained, and operated in a satisfactory manner. **(R 336.1225, R 336.1301, R 336.1331, R 336.1910)**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. Verification of the negative static pressure in the waste treatment building by testing, at owner's expense, in accordance with Department requirements, is required within 12 months of the most recent test. For subsequent tests, the permittee is not required to submit a test plan unless the permittee desires to use alternative testing procedures and associated operational parameters, or at the request of the AQD. No less than 7 days prior to testing, the permittee shall notify the AQD District Supervisor of the date testing will be conducted. Permittee shall conduct the verification tests at least once every year within 12 months of the previous test. Any request for a change in the testing frequency must be submitted to the AQD District Supervisor for review and approval. **(R 336.1225, R 336.1331, R 336.2001, R 336.2003)**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall keep, in a satisfactory manner, the following records. The permittee shall keep all records on file and make them available to the Department upon request: **(R 336.1205(3), R 336.1225, R 336.1702(a))**
   a) The VOC content of each waste stream received for treatment in EUTREATMENT.
   b) Daily and cumulative monthly total records of the type (by waste code) and amount of waste processed in EUTREATMENT.
   c) Calculations of VOC emission rates from EUTREATMENT for each month and 12-month rolling time period, using the method in Appendix A or an alternate method approved by the District Supervisor.

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVTREAT1	80	72	R 336.1225
2. SVTREAT2	80	72	R 336.1225

IX. OTHER REQUIREMENTS

NA

Footnotes:
[1]This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

FLEXIBLE GROUP SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FGPRIMARYTANKS	(6) tanks for processing oil-water mixtures	EUTANK13, EUTANK14, EUTANK15, EUTANK16, EUTANK17, EUTANK18
FGSECONDARYTANKS	(4) tanks for processing oil-water mixtures	EUTANK120, EUTANK121, EUTANK122, EUTANK123
FGOILRECOVERY	Oil recovery process. Includes (6) primary process tanks (FGPRIMARYTANKS) and (4) secondary process tanks (FGSECONDARYTANKS). Oils are separated from oil/water mixtures in multiple stages using heat and chemicals. Tank emissions are controlled by a packed bed scrubber.	EUOILRECOVERY, FGPRIMARYTANKS, FGSECONDARYTANKS
FGFACILITY	All process equipment at the facility including equipment covered by other permits, grand-fathered equipment and exempt equipment.	EUTREATMENT, EUOILRECOVERY, EUSILO1, EUSILO2, EUSILO3, EUSILO4, EUSILO5, FGPRIMARYTANKS, FGSECONDARYTANKS

The following conditions apply to: FGOILRECOVERY

DESCRIPTION: Oil recovery process. Includes (6) primary process tanks (FGPRIMARYTANKS) and (4) secondary process tanks (FGSECONDARYTANKS). Oils are separated from oil/water mixtures in multiple stages using heat and chemicals.

Emission Units: EUOILRECOVERY, FGPRIMARYTANKS, FGSECONDARYTANKS

POLLUTION CONTROL EQUIPMENT: Tank emissions from FGPRIMARYTANKS and FGSECONDARYTANKS are controlled by a packed bed scrubber.

I. EMISSION LIMITS

NA

II. MATERIAL LIMITS

Material	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. oil/water waste mixture	73,000,000 gallons	12-month rolling time period	FGPRIMARYTANKS	SC VI.3	R 336.1225, R 336.1702(a), R 336.1901
2. oil/water waste mixture	36,500,000 gallons	12-month rolling time period	FGSECONDARYTANKS	SC VI.3.	R 336.1225, R 336.1702(a), R 336.1901

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The temperature of the liquids stored in FGPRIMARYTANKS shall not exceed 190°F. **(R 336.1702(a), R 336.1901)**

2. The temperature of the liquids stored in FGSECONDARYTANKS shall not exceed 210°F. **(R 336.1702(a), R 336.1901)**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate FGOILRECOVERY unless emissions from all tanks are ducted to a packed bed scrubber that is installed, maintained, and operated in a satisfactory manner. Satisfactory operation includes maintaining the following conditions in the packed bed scrubber: **(R 336.1901, R 3136.1910)**
   a) The scrubbing liquid pH shall be maintained at 5.0 or higher.
   b) The oxidation/reduction potential (ORP) of the scrubbing liquid shall be maintained at 350 mV or higher.
   c) The scrubbing liquid flow rate shall be maintained between 100 and 135 gallons per minute.
   d) The pressure drop across the packed bed scrubber shall be maintained between 4" and 6.5" water gauge.

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. Upon AQD request, the permittee shall verify and quantify odor emissions from FGOILRECOVERY, by testing at owner's expense, in accordance with Department requirements. Within 60 days after AQD request, the permittee shall submit to the AQD a complete stack sampling and odor threshold analysis plan using the Dynamic Dilution Method. The stack sampling plan shall include provisions for various plant operating conditions, and odor neutralizer system operation (if any). The AQD must approve the final plan prior to testing. Verification of emissions includes the submittal of a complete report of the test results to the AQD within 60 days of the test. **(R 336.1901, R 336.2001, R 336.2003, R 336.2004)**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall install, calibrate, maintain, and operate, in a satisfactory manner a device to monitor the temperature of the liquid in each tank in FGOILRECOVERY on a continuous basis. **(R 336.1702(a), R 336.1901)**

2. The permittee shall install, calibrate, maintain, and operate, in a satisfactory manner, devices to monitor the following packed bed scrubber operating parameters on a continuous basis: **(R 336.1901, R 3136.1910)**
   a) Scrubbing liquid pH
   b) Oxidation/reduction potential (ORP) of the scrubbing liquid
   c) Scrubbing liquid flow rate
   d) Pressure drop across the packed bed scrubber

3. The permittee shall keep, in a satisfactory manner, the following records. The permittee shall keep all records on file and make them available to the Department upon request: **(R 336.1702(a), R 336.1225, R 336.1901)**
   a) The amount of liquid oil/water waste mixture processed in FGPRIMARYTANKS and FGSECONDARYTANKS on a daily, monthly, and 12-month rolling time period basis
   b) Records of the monitored temperature of each liquid in each tank in FGOILRECOVERY. The temperature shall be recorded at least once per day and shall be measured at a time when FGOILRECOVERY is actively processing oil/water mixtures.
   c) The date and amount of each addition of chemicals to the packed bed scrubbing liquid.
   d) The following monitored parameters for the packed bed scrubber shall be recorded at least once per day and shall be measured at a time when FGOILRECOVERY is actively processing oil/water mixtures:
      I. Scrubbing liquid pH.
      II. Oxidation/reduction potential (ORP) of the scrubbing liquid.
      III. Scrubbing liquid flow rate.
      IV. Pressure drop across the packed bed scrubber.

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVSCRUBBER	18	36	R 336.1225

IX. OTHER REQUIREMENTS

NA

Footnotes:
[1]This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

The following conditions apply Source-Wide to: FGFACILITY

POLLUTION CONTROL EQUIPMENT: All emissions from the stabilization building are controlled by a baghouse and vented to the atmosphere through two stacks. Tank emissions from FGPRIMARYTANKS and FGSECONDARYTANKS are controlled by a packed bed scrubber.

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	89.9 tpy	12-month rolling time period as determined at the end of each calendar month.	FGFACILITY	SC VI.1	R 336.1205(3)
2. Individual HAP	Less than 9 tpy	12-month rolling time period as determined at the end of each calendar month.	FGFACILITY	SC VI.1	R 336.1205(3)
3. Total HAPs	Less than 22.5 tpy	12-month rolling time period as determined at the end of each calendar month.	FGFACILITY	SC VI.1	R 336.1205(3)

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not operate FGFACILITY unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the air pollution control systems, is implemented and maintained as submitted to the AQD District Supervisor. If at any time the MAP fails to address or inadequately addresses an event that meets the definition of a "malfunction" in Rule 113 (a), the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days if new equipment is installed or upon request from the AQD District Supervisor. The permittee shall submit the original MAP and or any amendments to the MAP required by the permit condition to the AQD District Supervisor for review and approval within 45 days of the event, installation, or request. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. **(R 336.1910, R 336.1911)**

IV. DESIGN/EQUIPMENT PARAMETERS

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling time period calculations of VOC and HAP emissions from FGFACILITY. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(3))**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

NA

IX. OTHER REQUIREMENTS

NA

Footnotes:
[1]This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

APPENDIX A

Methodology to Determine Emission Rates for Demonstrating Compliance

PROCEDURE TO DETERMINE VOC EMISSIONS FROM EUTREATMENT

The permittee shall use the following calculations in conjunction with monitoring, testing or recordkeeping data to determine compliance with the applicable requirements referenced in SC 1.1.

The following formula shall be used to calculate and monitor the VOC/HAP emissions from EUTREATMENT, based on a 12-month rolling time period, as determined at the end of each calendar month:

$$VOC_e = \Sigma(V_i \times W_i \times D_i) \times Er \times (1-A_e)$$

Where:

VOC_e = Cumulative VOC/HAP emissions from the unit during the period

i = Each iteration of waste stream treated during the time period

V_i = Volume of waste stream i processed

W_i = Weight fraction of VOC/HAP present in waste stream i processed

D_i = Density of waste stream i processed in appropriate unit; assumed to average 8.5 lbs/gal

Er = Emission factor for VOC/HAP released from waste during treatment process = 0.15 (15% wt) based on site specific data and testing, as approved by the AQD District Supervisor

A_e = Control efficiency = 0 for EUTREATMENT (no control)

The permittee shall use the VOC/HAP emission factor, VOC/HAP capture efficiency and the control device control efficiency cited above until these parameters are determined by testing. Upon approval by the AQD, permittee shall use the test results for these parameters for VOC/HAP emission calculations unless a new determination by the permittee is approved by the AQD.

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

March 27, 2017

PERMIT TO INSTALL
269-04G

ISSUED TO
EQ Detroit, Inc. (DBA US Ecology)

LOCATED AT
1923 Frederick Street
Detroit, Michigan

IN THE COUNTY OF
Wayne

STATE REGISTRATION NUMBER
M4545

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environmental Quality. This permit is hereby issued in accordance with and subject to Section 5505(1) of Article II, Chapter I, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Pursuant to Air Pollution Control Rule 336.1201(1), this permit constitutes the permittee's authority to install the identified emission unit(s) in accordance with all administrative rules of the Department and the attached conditions. Operation of the emission unit(s) identified in this Permit to Install is allowed pursuant to Rule 336.1201(6).

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203: **March 27, 2017**	
DATE PERMIT TO INSTALL APPROVED: **March 27, 2017**	SIGNATURE: Arnette Davis
DATE PERMIT VOIDED: 2/5/18	SIGNATURE: Arnette Davis
DATE PERMIT REVOKED:	SIGNATURE:

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY - AIR QUALITY DIVISION

DEQ

PERMIT TO INSTALL APPLICATION

For authority to install, construct, reconstruct, relocate, or modify process, fuel-burning or refuse burning equipment and/or control equipment. Permits to install are required by administrative rules pursuant to Section 5505 of 1994 PA 451, as amended

FOR DEQ USE
APPLICATION NUMBER
269-046

Please type or print clearly. The "Application Instructions" and "Information Required for an Administratively Complete Permit to Install Application" are available on the Air Quality Division (AQD) Permit Web Page at http://www.deq.state.mi.us/aps. Please call the AQD at 517-284-6804 if you have not been contacted within 15 days of your application submittal.

RECEIVED
MAR 27 2017
AIR QUALITY DIV.

1. FACILITY CODES: State Registration Number (SRN) and North American Industry Classification System (NAICS)
SRN: M 4 5 4 5 NAICS: 5 6 2 2 1 1

2. APPLICANT NAME: (Business License Name of Corporation, Partnership, Individual Owner, Government Agency)
EQ Detroit, Inc. (DBA US Ecology)

3. APPLICANT ADDRESS: (Number and Street)
1923 Frederick Street
MAIL CODE:

CITY: (City, Village or Township): Detroit
STATE: MI
ZIP CODE: 48211
COUNTY: Wayne

4. EQUIPMENT OR PROCESS LOCATION: (Number and Street – if different than Item 3)

CITY: (City, Village or Township)
ZIP CODE:
COUNTY:

5. GENERAL NATURE OF BUSINESS:
TSDF for Hazardous and Non-Hazardous Liquid and Solid Industrial Waste

6. EQUIPMENT OR PROCESS DESCRIPTION: (A Description MUST Be Provided Here. Include Emission Unit IDs. Attach additional sheets if necessary; number and date each page of the submittal.)
Requesting a temporary modification to the company's existing PTI due to building damages in our EUTREATMENT caused by extreme winds on 3/8/2017. Along with the drum and container storage that remains on the eastern side of the building, there is a bunker that contains approximately 200 yards of unused, reagent product (Bed Ash - MSDS attached) that has been covered to prevent any possible releases to the environment. Although, this was not in the original assessment, since the wind damage, our contractors have determined they will need access to this area of the building in order to make the necessary repairs/replacements. This material is not a waste, but the company would like to transfer it beginning 03/23/2017 to one of our other facilities. US Ecology will attempt to load out all at once, but understand that space, transportation or other factors could delay some of the process and therefore request to extend the temporary PTI until 04/05/2017.

7. REASON FOR APPLICATION: (Check all that apply.)
- ☐ INSTALLATION / CONSTRUCTION OF NEW EQUIPMENT OR PROCESS
- ☒ RECONSTRUCTION / MODIFICATION / RELOCATION OF EXISTING EQUIPMENT OR PROCESS – DATE INSTALLED:
- ☐ OTHER – DESCRIBE

8. IF THE EQUIPMENT OR PROCESS THAT WILL BE COVERED BY THIS PERMIT TO INSTALL (PTI) IS CURRENTLY COVERED BY ANY ACTIVE PERMITS, LIST THE PTI NUMBER(S): 269-04F

9. DOES THIS FACILITY HAVE AN EXISTING RENEWABLE OPERATING PERMIT (ROP)? ☒ NOT APPLICABLE ☐ PENDING APPLICATION ☐ YES
PENDING APPLICATION OR ROP NUMBER:

10. AUTHORIZED EMPLOYEE: Raymond Landsberg
TITLE: General Manager
PHONE NUMBER: (Include Area Code) 313-347-1313
SIGNATURE:
DATE: 3/24/17
E-MAIL ADDRESS: Raymond.landsberg@usecology.com

11. CONTACT: (If different than Authorized Employee. The person to contact with questions regarding this application)
Krystal Brown
PHONE NUMBER: (Include Area Code) 313-347-1328
CONTACT AFFILIATION: Environmental Compliance Manager
E-MAIL ADDRESS: Krystal.brown@usecology.com

12. IS THE CONTACT PERSON AUTHORIZED TO NEGOTIATE THE TERMS AND CONDITIONS OF THE PERMIT TO INSTALL? ☒ YES ☐ NO

FOR DEQ USE ONLY - DO NOT WRITE BELOW

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203: 3/27/17
DATE PERMIT TO INSTALL APPROVED: 3/27/17 SIGNATURE: Arnette Davis
DATE APPLICATION / PTI VOIDED: 2/5/18 SIGNATURE: Arnette Davis
DATE APPLICATION DENIED: SIGNATURE:

A PERMIT CERTIFICATE WILL BE ISSUED UPON APPROVAL OF A PERMIT TO INSTALL

EQP 5615E (Rev. 09/2015)

GRETCHEN WHITMER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
LANSING

EGLE

LIESL EICHLER CLARK
DIRECTOR

September 11, 2020

Mr. John C. Barta, General Manager
EQ Detroit, Inc.
1923 Frederick Street
Detroit, Michigan 48211

Dear Mr. Barta:

SUBJECT: Application for Solid Waste Disposal Area Operating License; EQ Detroit, Inc.; US Ecology – Detroit South; Waste Data System Number 399367; License Number 9618

Staff of the Department of Environment, Great Lakes, and Energy (EGLE), Materials Management Division (MMD), has reviewed your application for a solid waste processing plant, known as US Ecology – Detroit South, located in the city of Detroit, Wayne County, Michigan. This review was conducted under the provisions of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

Based upon our review of your application, your operating license is hereby granted. Enclosed is your license with operating stipulations.

Should you require further information, please contact Mr. Greg Morrow, Warren District Assistant Supervisor, MMD, at 586-753-3852; MorrowG@michigan.gov; or EGLE, 27700 Donald Court, Warren, Michigan 48092.

Sincerely,

Rhonda S. Oyer

Rhonda S. Oyer, Manager
Solid Waste Section
Materials Management Division
517-897-1395

Enclosure
cc: Wayne County Department of Public Services
City of Detroit Clerk
Mr. Greg Morrow/Mr. Alex Whitlow, EGLE-Warren
Facility File

EGLE

Michigan Department of Environment, Great Lakes, and Energy
Materials Management Division
SOLID WASTE DISPOSAL AREA OPERATING LICENSE

Effective April 22, 2019, the Michigan Department of Environmental Quality, by Executive Order Number 2019-06, became the Michigan Department of Environment, Great Lakes, and Energy (EGLE). Effective April 22, 2019, the Waste Management and Radiological Protection Division became the Materials Management Division (MMD).

This license is issued under the provisions of Part 115, Solid Waste Management of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, MCL 324.11501 et seq., and authorizes the operation of this solid waste disposal area (Facility) in the state of Michigan. This license does not obviate the need to obtain other authorizations as may be required by state law.

FACILITY NAME: US Ecology - Detroit South

LICENSEE/OPERATOR: EQ Detroit, Inc.

FACILITY OWNER: EQ Detroit, Inc.

PROPERTY OWNER: EQ Detroit, Inc.

FACILITY TYPE(S): Solid Waste Processing Plant

FACILITY ID NUMBER: 399367

COUNTY: Wayne

LICENSE NUMBER: 9618

ISSUE DATE: September 11, 2020

EXPIRATION DATE: September 11, 2025

FACILITY DESCRIPTION: The US Ecology - Detroit South, a solid waste processing plant, consists of 11.5 acres located at 1923 Frederick Street, Detroit, Wayne County, Michigan, as identified in Attachment A and fully described in this license.

AREA AUTHORIZED FOR DISPOSAL OF SOLID WASTE: As identified in Attachment A and Items 5 and 6 of this license.

RESPONSIBLE PARTY: John C. Barta, General Manager
EQ Detroit, Inc.
1923 Frederick Street
Detroit, Michigan 48211
313-347-1300

RENEWAL OPERATING LICENSE: This License Number 9618 supersedes and replaces Solid Waste Disposal Area License Number 9407 issued to EQ Detroit, Inc., on September 18, 2014.

This license is subject to revocation by the Director of the Michigan Department of Environment, Great Lakes, and Energy (Director) if the Director finds that this Facility is not being constructed or operated in accordance with the approved plans, the conditions of a permit or license, Part 115, or the rules promulgated under Part 115. Failure to comply with the terms and provisions of this license may result in legal action leading to civil and/or criminal penalties pursuant to Part 115. This license shall be available through the licensee during its term and remains the property of the Director.

THIS LICENSE IS NOT TRANSFERABLE.

Rhonda S. Oyer

Rhonda S. Oyer, Manager, Solid Waste Section
Materials Management Division

Licensee: EQ Detroit, Inc.
Facility Name: US Ecology – Detroit South
Operating License Number: 9618
Issue Date: September 11, 2020

The licensee shall comply with all terms of this license and the provisions of Part 115 and its administrative rules. This license includes the license application and any attachments to this license.

1. The licensee shall operate the Facility in a manner that will prevent violations of any state or federal law.

2. The attached map (Attachment A) shows the Facility, the area permitted for construction and/or placement and acceptance of waste, and the following, if applicable: monitoring points, leachate storage units, site roads, other disposal areas, and related appurtenances.

3. Issuance of this license is conditioned on the accuracy of the information submitted by the Operator/Applicant in the Application for License to Operate a Solid Waste Disposal Area (Application) received by EGLE on July 30, 2019, and any subsequent amendments. Any material or intentional inaccuracies found in that information is grounds for the revocation or modification of this license and may be grounds for enforcement action. The licensee shall inform EGLE's MMD Warren District Supervisor of any inaccuracies in the information in the Application upon discovery.

4. This license is issued based on EGLE's review of the Application, submitted by EQ Detroit, Inc., for the US Ecology - Detroit South solid waste processing plant, dated July 31, 2019, and revised September 9, 2019 and September 9, 2020. The Application consists of the following:

   a. Application Form EQP 5507.

   b. Application fee in the amount of $500.00.

   c. Certification of construction by N/A.

   d. Financial Assurance.

      Financial Assurance Required:

      The amount of financial assurance required for this Facility was calculated based on the requirements of Section 11523(1)(c), is indicated on the form EQP 5507A entitled, "Form A Financial Assurance Required," and is $4,380.83.

      The Facility has provided financial assurance totaling $30,000.00, based on the requirements of Section 11523 of Part 115. The financial assurance mechanism used by the Facility is summarized below.

      The following financial assurance has been received from the licensee to meet the amount of financial assurance required:

Surety Bond	$30,000.00
Total Amount Received:	$30,000.00

5. The following documents approved with Construction Permit Number (s) 0356 issued to the City Environmental, Inc., on January 16, 1998, are incorporated in this license by reference:

   a. Application documents titled "City Environmental, Inc., Frederick Street Solid Waste Processing Facility Act 451, Part 115 Construction Permit Application" dated September 1997 and received by EGLE on September 23, 1997.

   b. Engineering plan set (consisting of Sheets G-1 through G-7, A-1 through A-5, S-1 through S-19, and P-1 through P-6) titled "Detroit, Michigan City Environmental, Inc., Frederick Street Treatment Complex Chemical Fixation Facility," prepared by McNamee Industrial Services, Inc., dated August 1997 and received by EGLE on September 27, 1997.

6. The following additional documents, approved since the issuance of the construction permit(s) referenced in Item 5, are incorporated in this license by reference:

   a. "Solid Waste Processing Plant Operations Plan, US Liquids of Detroit, Inc., Detroit, Wayne County, Michigan," dated June 2002 and prepared by CTI and Associates, Inc., and approved with modifications on September 12, 2002, which supersedes and replaces in its entirety the August 1997 "Operating Procedures" located in Section F of the 1997 construction permit application documents referenced in Item 5 above.

   b. CTI drawing Sheet 1, dated March 8, 2004, received by EGLE on March 10, 2004.

   c. EQ Detroit, Inc., drawing number A-2 titled "Facility Drawing," dated March 28, 2008, which depicts the location of the North Container Storage Area.

   d. EQ Detroit, Inc., drawing number C10 titled "Chem Fix & North Container Containment," dated June 4, 2008, which provides some specifications for the North Container Storage Area.

7. Consent Order/Judgment Number: MMD Consent Order Number 115-05-2020 entered on September 11, 2020 is incorporated into this license by reference.

8. The licensee shall conduct hydrogeological monitoring in accordance with the approved hydrogeological monitoring plan, dated N/A. The sampling analytical results shall be submitted to EGLE's MMD Warren District office.

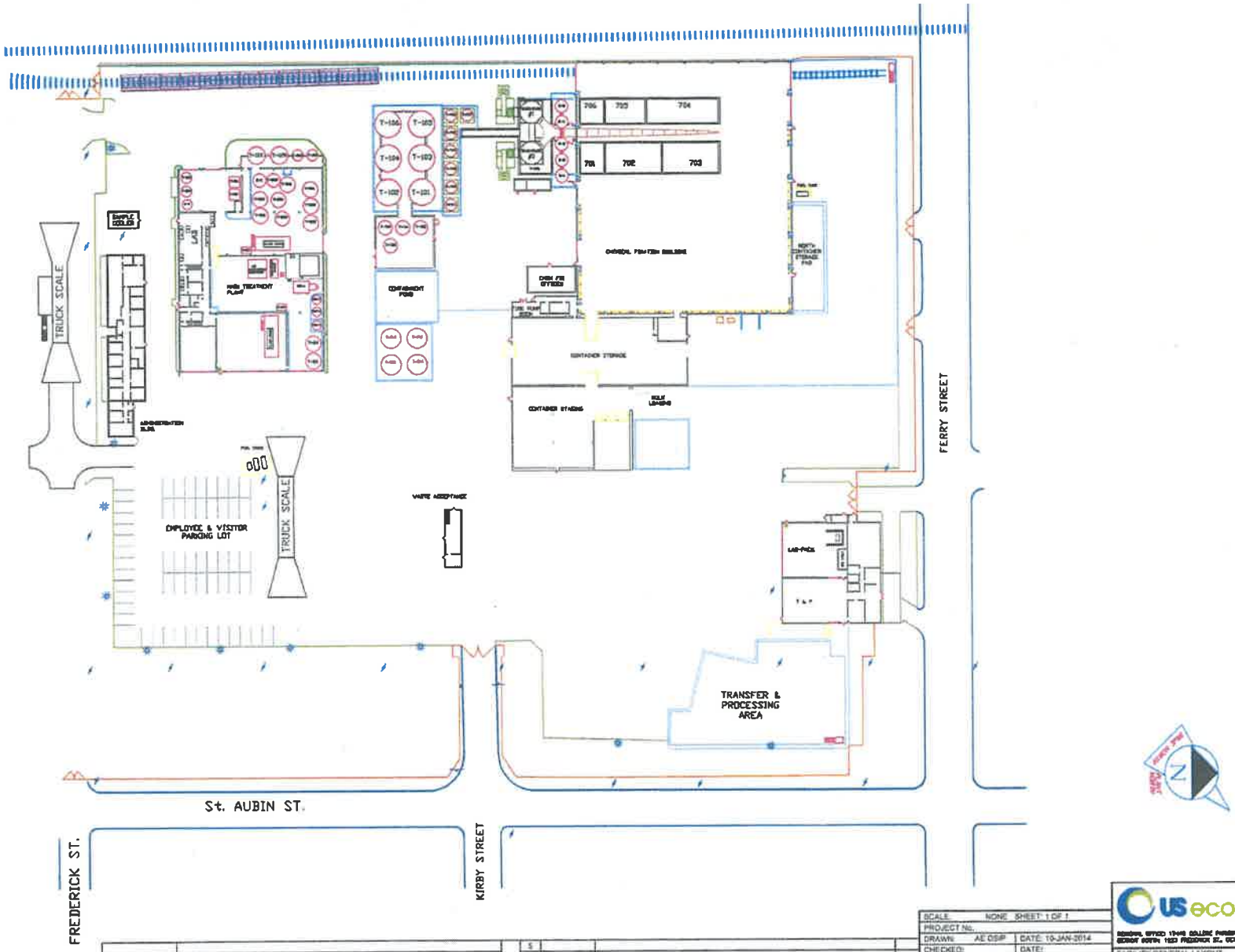
9. Modifications to approved engineering plans that constitute an upgrading, as defined in R 299.4106a(e), may be approved, in writing, by the EGLE's MMD Warren District Supervisor.

10. **SPECIAL CONDITIONS**:

    At the time of issuance of this license, the applicant is not required to conduct groundwater monitoring at the Facility based on the evaluations presented in the Hydrogeologic Report and Groundwater Evaluation for the Frederick Street Facility, dated February 29, 1996, and the fact that all solid waste processing operations will be conducted in an enclosed building with a properly sloped/contained concrete floor. As provided for in Rule 299.4502, EGLE may require groundwater monitoring in the future.

11. **TERM**: This license shall remain in effect until its expiration date, unless revoked or continued in effect, as provided by the Administrative Procedures Act, 1969 PA 306, as amended, or unless superseded by the issuance of a subsequent license.

END OF LICENSE



NUMBER	REFERENCE DRAWING

REV	DATE	DESCRIPTION	BY
5			
4			
3			
2	30-JUN-2015	UPDATED TITLE BLOCK	AEO
1	20-OCT-2014	UPDATED TITLE BLOCK	AEO
0	10-JAN-2014	ISSUED FOR REFERENCE	AEO

SCALE:	NONE SHEET: 1 OF 1
PROJECT No.	
DRAWN: AE DSP	DATE: 10-JAN-2014
CHECKED:	DATE:
APPROVED:	DATE:

US ecology

DETROIT, MI

FACILITY GENERAL LAYOUT

21-00-100-G-0072

Appendix A- 5: Formal Determination of Compliance with Local Zoning

CITY OF DETROIT
BUILDINGS AND SAFETY ENGINEERING DEPARTMENT

FOURTH FLOOR CITY-COUNTY BUILDING
DETROIT, MICHIGAN 48226

April 2, 1996

B&SE Case No.: 13-96 - 1947 E. Kirby (aka 1923 Frederick)
Decision Date: April 2, 1996
Effective Date: April 17, 1996

City Environmental, Inc.
1923 Frederick Street
Detroit, Michigan 48211

Your Request To: Operate a Hazardous Waste Treatment Facility

AT: 1947 E, Kirby (aka 1923 Frederick), between Dequindre (GTWRR) and St. Aubin

Which Property Is Zoned M-4 And Legally Described As:

Lots 11-22 in Secor & Davis Subdivision of the South 273 20/100 feet of Out Lot 54, as recorded in Liber 9, Page 41 of Plats, Wayne County Records, and Lots 25-42 in Phillis Beaubiens Subdivision of Out Lot 51, St. Aubin Farm. Detroit, Wayne County, Michigan as recorded in Liber 9, Page 16 of Plats, Wayne County Records, and the portion of Outlot 28 lying North of Frederick Ave., of the subdivision of Private Claim 90, Witherell Farm, Liber 34, Page 1 of Deeds, Wayne County Records, and all of Outlot 29 of the Subdivision of Private Claim 90, Witherell Farms, Liber 34, Pages 1 & 2 of Deeds, Wayne County Records, more particularly as described on the attached one (1) sheet "Sketch and Description"

Has been processed (as were your earlier B&SE Case No's. 156-91 and 147-95) in accord with the provisions of Section(s) 65.0000,67.0400, 104.0300 and 105.0300 of the Zoning Ordinance and conditionally approved, provided you comply with all conditions stated on the last pages of this letter and subject to periodic review and possible revocation should the conditions not be fulfilled.

This conditional approval will become effective April 17, 1996.

8	14	24
6	**13**	27
4	12	27

Appendix A- 6: Proof of Financial Capability

R 299.9508(1)(e)

See **Section I** “Coverage by State Financial Mechanism”

STATE OF MICHIGAN

DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

EGLE

HAZARDOUS WASTE TRANSFER FACILITY AMENDATORY ENDORSEMENT
POLLUTION LEGAL LIABILITY - SUDDEN AND ACCIDENTAL

This endorsement (the "Endorsement") changes the Pollution Legal Liability Policy (the "Policy") effective on the inception date of the Policy. This Endorsement is attached to the Policy to fulfill the insurance requirements of the State of Michigan Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and R 299.9711 of the Michigan Administrative Code (MAC).

INSURER:			INSURED:		
Aspen Specialty Insurance Company			REPUBLIC SERVICES, INC.		
INSURER'S ADDRESS:			INSURED'S ADDRESS:		
499 Washington Boulevard, 8th Floor			18500 N ALLIED WAY		
CITY: Jersey City	STATE: NJ	ZIP CODE: 07310	CITY: PHOENIX	STATE: AZ	ZIP CODE: 85054
POLICY NUMBER: ER00T3622	POLICY PERIOD: FROM: 8/1/2022		TO: 6/30/2023		

COVERED FACILITY: **(Attach additional page if necessary to list multiple Facilities covered)**

FACILITY NAME:			FACILITY ADDRESS:
US Ecology Transportation Solutions, Inc.			2000 Ferry Street
CITY: Detroit	STATE: MI	ZIP CODE: 48211	EPA ID NUMBER: MIK593743838

DEFINITIONS

As used in this Endorsement:
The term "Contaminant" means any hazardous waste defined in MAC R 299.9203, and any hazardous waste or hazardous constituent listed in Appendix VIII of Part 261 or Appendix IX of Part 264 of Title 40 of the Code of Federal Regulations; and

The term "Sudden and Accidental Occurrence" means the unintentional and unexpected discharge, dispersal, release, or escape of a contaminant in a noncontinuous and nonrepetitive manner, into or upon the land, the atmosphere, or any watercourse or body of water, which results in bodily injury or property damage.

DECLARATIONS

The insurance afforded with respect to Sudden and Accidental Occurrences is subject to all of the terms and conditions of the Policy provided however that any provisions of the Policy inconsistent with Sections A through F of this Endorsement are hereby amended to conform with Sections A through F.

A. The limits of liability as respects bodily injury and property damage are provided in an amount not less than $500,000.00 per occurrence with an annual aggregate of $ 2,000,000 , exclusive of legal defense costs.

B. The following deductible per occurrence applies: (if none, so state) $ 250,000 (not to exceed 5% of the per occurrence limit).

C. A Notice of Violation or Order issued by the MDEQ or other environmental agency shall not be deemed in and of itself sufficient evidence of an insured's intentional, knowing, willful, or deliberate noncompliance with a legal requirement so as to preclude coverage under this Policy.

D. The Insurer will provide the Waste and Hazardous Materials Division at the address below with at least 30 days advance written notice of cancellation, termination, or material change to the Policy which affects the coverage required by MAC R 299.9711. Such notices shall be provided no matter which party initiates the cancellation, termination, or material change, and whether or not nonpayment of premium is involved.

E. The following are the only soil and groundwater conditions (defined in the referenced assessments or reports) that are excluded from coverage under the Policy (Attach additional pages if necessary): _____

F. Except as provided in Section E above, no condition, provision, stipulation, limitation, or exclusion contained in the Policy, or any other endorsement thereon, or any violation thereof, shall relieve the insurer from liability or from the payment of any claim, within the stated limits of liability in this Endorsement, for bodily injury and property damage to a third party caused by a sudden and accidental occurrence.

The Insurer hereby certifies that it has issued the Insured the Policy to provide financial assurance and responsibility for bodily injury and property damage caused by Sudden and Accidental Occurrences arising from operation of the covered facility(ies), and that the Insurer is licensed to insure hazardous waste transporting activities, or is eligible to provide such insurance in the State of Michigan.

Filing of this Endorsement is required by Law (MAC R299.9711)

Submit one original signed Endorsement to:

MATERIALS MANAGEMENT DIVISION
WARREN DISTRICT OFFICE
MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES & ENERGY
27700 DONALD COURT
WARREN, MICHIGAN 48092-2793

Name of Authorized Agent	
Daniel Orseck	
Street Address or PO Box 135 Main Street	
City, State and Zip Code San Francisco, CA 94105	
Signature of Authorized Agent	Date 8/3/2022

EGLE

Michigan Department of Environment, Great Lakes, and Energy
Materials Management Division

HAZARDOUS WASTE MANAGEMENT FACILITY AMENDATORY ENDORSEMENT POLLUTION LEGAL LIABILITY - SUDDEN AND ACCIDENTAL

This endorsement ("Endorsement") changes the Pollution Legal Liability Policy ("Policy") effective on the inception date of the Policy. This Endorsement is attached to the Policy to fulfill the insurance requirements of Section 11123 of the State of Michigan Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and R 299.9710 of the Michigan Administrative Code (MAC).

INSURER: Aspen Specialty Insurance Company			INSURED: REPUBLIC SERVICES, INC.		
INSURER'S ADDRESS: 499 Washington Boulevard, 8th Floor			INSURED'S ADDRESS: 18500 N ALLIED WAY		
CITY: Jersey City	STATE: NJ	ZIP CODE: 07310	CITY: PHOENIX	STATE: AZ	ZIP CODE: 85054
POLICY NUMBER: ER00T3622	FROM: 8/1/2022		TO: 6/30/2023		

COVERED FACILITY: **(Attach additional page if necessary to list multiple Facilities covered)**

FACILITY NAME: EQ Detroit, Inc.			FACILITY ADDRESS: 1923 Frederick Street	
CITY: Detroit	STATE: MI	ZIP CODE: 48211	EPA ID NUMBER: MID980991566	

DEFINITIONS

As used in this Endorsement:
The term "Contaminant" means any hazardous waste defined in MAC R 299.9203, and any hazardous waste or hazardous constituent listed in Appendix VIII of Part 261 or Appendix IX of Part 264 of Title 40 of the Code of Federal Regulations; and

The term "Sudden and Accidental Occurrence" means the unintentional and unexpected discharge, dispersal, release, or escape of a contaminant in a noncontinuous and nonrepetitive manner, into or upon the land, the atmosphere, or any watercourse or body of water, which results in bodily injury or property damage.

DECLARATIONS

The insurance afforded with respect to Sudden and Accidental Occurrences is subject to all of the terms and conditions of the Policy provided however that any provisions of the Policy inconsistent with Sections A through F of this Endorsement are hereby amended to conform to Sections A through F.

A. The limits of liability as respects bodily injury and property damage are provided in an amount not less than $1,000,000 per occurrence with an annual aggregate of not less than $2,000,000 exclusive of legal defense costs.

B. The Insurer is liable for the payment of amounts within any deductible applicable to the Policy, with a right of reimbursement by the Insured for any such payment made by the Insurer.

C. A Notice of Violation or Order issued by the Michigan Department of Environment, Great Lakes, and Energy or other environmental agency shall not be deemed in and of itself sufficient evidence of an insured's intentional, knowing, willful, or deliberate noncompliance with a legal requirement so as to preclude coverage under this Policy.

D. The Insurer will provide the Materials Management Division at the address below with at least 30 days advance written notice of cancellation, termination, or material change to the Policy which affects the coverage required by MAC R 299.9710. Such notices shall be provided no matter which party initiates the cancellation, termination, or material change, and whether or not nonpayment of premium is involved.

E. The following are the only specific pre-existing soil and groundwater conditions (defined in the referenced assessments or reports) that are excluded from coverage under the Policy (Attach additional pages if necessary):_____

F. No condition, provision, stipulation, limitation, or exclusion contained in the Policy, or any other endorsement thereon, or any violation thereof, shall relieve the insurer from liability or from the payment of any claim, within the stated limits of liability in this Endorsement, for bodily injury and property damage to a third party caused by a sudden and accidental occurrence.

The Insurer hereby certifies that it has issued the Insured the Policy to provide financial assurance and responsibility for bodily injury and property damage caused by Sudden and Accidental Occurrences arising from operation of the covered facility(ies), and that the Insurer is licensed to transact the business of insurance, or is eligible to provide insurance as an excess or surplus lines insurer, in the State of Michigan.

Filing of this Endorsement is required by Law (MAC R299.9710)

Submit one original signed Endorsement to:

HAZARDOUS WASTE SECTION
MATERIALS MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
PO BOX 30241
LANSING MI 48909-7741

Name of Authorized Agent Daniel Orseck	
Street Address or PO Box 135 Main Street	
City, State and Zip Code San Francisco, CA 94105	
Signature of Authorized Agent	Date 8/3/2022

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

HAZARDOUS WASTE FACILITY LIABILITY ENDORSEMENT

This endorsement modifies and is subject to the insurance provided under the following:

PREMISE ENVIRONMENTAL COVERAGE

It is hereby agreed that the policy is amended as follows:

1. This endorsement certifies that the policy to which the endorsement is attached provides liability insurance covering bodily injury and property damage in connection with the insured's obligation to demonstrate financial responsibility under the State of Michigan Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and R 299.9710 or the State of Michigan Natural Resources and Environmental Protection Act, 1994 PA 451, as amended and R 299.9711 of the Michigan Administrative Code (MAC). The coverage applies at US Ecology Romulus, Inc. FKA EQ Resource Recovery, Inc., 36345 Van Born Road, Romulus, MI 48174, EPA I.D. No.MID 060 975 844, Michigan Disposal, Inc., 49350 N. 1-94 Service Drive, Belleville, MI 48111, EPA I.D. No.MID 000 724 831, Wayne Disposal, Inc., 49350 N. 1-94 Service Drive, Belleville, MI 48111, EPA I.D. No.MID 048 090 633, EQ Detroit, Inc., 1923 Frederick Street, Detroit, MI 48211, EPA I.D. No.MID 980 991 566, EQ Industrial Services, Inc., 2000 Ferry Street, Detroit, MI 48211, EPA I.D. No. MIK435642742, Wayne Disposal, Inc. 36345 Van Born Road, Romulus, MI 48174, EPA I.D. No. MIK435642742, US Ecology Michigan, 6520 Georgia Street, Detroit, MI 48211, EPA I.D. No. MID 074 259 656 for sudden and accidental and non-sudden accidental occurrences. The limits of liability are $4,000,000 each occurrence and $8,000,000 annual aggregate, exclusive of legal defense costs.

2. The insurance afforded with respect to such occurrences is subject to all of the terms and conditions of the policy; provided, however, that any provisions of the policy inconsistent with subsections (a) through (e) of this Paragraph 2 are hereby amended to conform with subsections (a) through (e):

   (a) Bankruptcy or insolvency of the insured shall not relieve the Insurer of its obligations under the policy to which this endorsement is attached.

   (b) The Insurer is liable for the payment of amounts within any deductible applicable to the policy, with a right of reimbursement by the insured for any such payment made by the Insurer. This provision does not apply with respect to that amount of any deductible for which coverage is demonstrated as specified in the State of Michigan Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and R 299.9710 or the State of Michigan Natural Resources and Environmental Protection Act, 1994 PA 451, as amended and R 299.9711 of the Michigan Administrative Code **(MAC).**

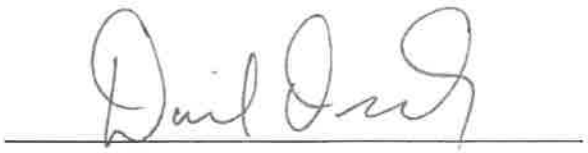
   (c) Whenever requested by the Michigan Department of Environmental Quality, Waste Management and Radiological Protection Division (DEQ), the Insurer agrees to furnish to the DEQ a signed duplicate original of the policy and all endorsements.

   (d) Cancellation of this endorsement, whether by the Insurer, the insured, a parent corporation providing insurance coverage for its subsidiary, or by a firm having an insurable interest in and obtaining liability insurance on behalf of the owner or operator of the hazardous waste management facility, will be effective only upon written notice and only after the expiration of 60 days after a copy of such written notice is received by the DEQ.

(e) Any other termination of this endorsement will be effective only upon written notice and only after the expiration of thirty (30) days after a copy of such written notice is received by the DEQ.

Attached to and forming part of policy No. ER00T3622 issued by Aspen Specialty Insurance Company, herein called the Insurer, of 499 Washington Boulevard, 8th Floor, Jersey City, NJ 07310 to REPUBLIC SERVICES, INC. of 18500 N ALLIED WAY, PHOENIX, AZ 85054 this 1st day of August 2022. The effective date of said policy is August 1 of 2022.

I hereby certify that the wording of this endorsement is identical to the wording specified in the State of Michigan Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and R 299.9710 or the State of Michigan Natural Resources and Environmental Protection Act, 1994 PA 451, as amended and R 299.9711 of the Michigan Administrative Code (MAC) as such regulation was constituted on the date first above written, and that the Insurer is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more States.



Signature of Authorized Representative of Insurer

Daniel Orseck
Regional Manager, Vice President
Authorized Representative of Aspen Specialty Insurance Company
135 Main Street, San Francisco, CA 94105

All other policy terms and conditions remain unchanged.

GRETCHEN WHITMER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
LANSING

LIESL EICHLER CLARK
DIRECTOR

September 17, 2021

VIA E-MAIL

Mr. Chris Pfeiffer, Corporate Risk Manager
US Ecology
101 South Capitol Boulevard, Suite 1000
Boise, Idaho 83702

Dear Mr. Pfeiffer:

SUBJECT: In Compliance Determination; Required Liability Coverage for
Michigan Disposal, Inc., Belleville, Michigan; MID 000 724 831; Waste Data System Number 392708
Wayne Disposal, Inc., Belleville, Michigan; MID 048 090 633; Waste Data System Number 395812
US Ecology Romulus, Inc. FKA EQ Resource Recovery, Inc., Romulus, Michigan; MID 060 975 844; Waste Data System Number 396600
EQ Detroit, Inc., Detroit, Michigan; MID 980 991 566; Waste Data System Number 399367
US Ecology Michigan, Detroit, Michigan; MID 074 259 565; Waste Data System Number 397151

On August 5, 2021, the Michigan Department of Environment, Great Lakes, and Energy (EGLE), Materials Management Division (MMD), conducted a financial record review (FRR) of the August 1, 2021, Hazardous Waste Facility Amendatory Endorsements to the Pollution Legal Liability Insurance Policy, provided by Tokio Marine Specialty Insurance Company, on behalf of US Ecology, Inc. (US Ecology), for the subject facilities. The MMD also reviewed US Ecology's executed Michigan Waiver of Insured's Right to Immediate Cancellation.

US Ecology's establishment of financial responsibility for liability coverage is required by Rule 299.9710 of the administrative rules promulgated pursuant to Part 111, Hazardous Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and each facilities' Hazardous Waste Management Facility Operating License, issued pursuant to Part 111.

Based on the FRR, the MMD hereby determines that US Ecology is in compliance with the Part 111 financial assurance requirements for the subject facilities.

If you have any questions, please contact Mr. Daniel Dailey, Environmental Engineering Specialist, Permit and Corrective Action Unit, Hazardous Waste Section, MMD, at 517-242-7261; DaileyD@Michigan.gov; or EGLE, MMD, P.O. Box 30241, Lansing, Michigan 48909-7741.

Sincerely,

Dale Bridgford, Supervisor
Permit and Corrective Action Unit
Hazardous Waste Section
Materials Management Division
517-582-3050

cc: Mr. Dan Belisle, EHS Program Manager, US Ecology
Mr. Terry Howes, Environmental Compliance Manager, US Ecology
Ms. Tabetha Peebles, Environmental Compliance Manager, US Ecology
Ms. Sylwia Scott, Environmental Regulatory Compliance Manager, Michigan Disposal Waste Treatment Plant, and Wayne Disposal, Inc.
Ms. Tyson Kimberly, EGLE
Ms. Ronda Blayer, EGLE
Mr. Michael Busse, EGLE
Ms. Christine Matlock, EGLE
Mx. Andrew Bertapelle, EGLE
Mr. Jacob Runge, EGLE
HWS/C&E File

EGLE

Michigan Department of Environment, Great Lakes, and Energy
Materials Management Division

HAZARDOUS WASTE MANAGEMENT FACILITY AMENDATORY ENDORSEMENT
POLLUTION LEGAL LIABILITY - SUDDEN AND ACCIDENTAL

This endorsement ("Endorsement") changes the Pollution Legal Liability Policy ("Policy") effective on the inception date of the Policy. This Endorsement is attached to the Policy to fulfill the insurance requirements of Section 11123 of the State of Michigan Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and R 299.9710 of the Michigan Administrative Code (MAC).

INSURER: Tokio Marine Specialty Insurance Company			INSURED: US Ecology, Inc.		
INSURER'S ADDRESS: One Bala Plaza			INSURED'S ADDRESS: 101 S. Capitol Blvd., Suite 1000		
CITY: Bala Cynwyd	STATE: PA	ZIP CODE: 19004	CITY: Boise	STATE: ID	ZIP CODE: 83702
POLICY NUMBER: PPK2161035	POLICY PERIOD: FROM: 8/1/2020		TO: 8/1/2021		

COVERED FACILITY: **(Attach additional page if necessary to list multiple Facilities covered)**

FACILITY NAME: EQ Detroit, Inc.			FACILITY ADDRESS: 1923 Frederick Street
CITY: Detroit	STATE: MI	ZIP CODE: 48211	EPA ID NUMBER: MID980991566

DEFINITIONS

As used in this Endorsement:
The term "Contaminant" means any hazardous waste defined in MAC R 299.9203, and any hazardous waste or hazardous constituent listed in Appendix VIII of Part 261 or Appendix IX of Part 264 of Title 40 of the Code of Federal Regulations; and

The term "Sudden and Accidental Occurrence" means the unintentional and unexpected discharge, dispersal, release, or escape of a contaminant in a noncontinuous and nonrepetitive manner, into or upon the land, the atmosphere, or any watercourse or body of water, which results in bodily injury or property damage.

DECLARATIONS

The insurance afforded with respect to Sudden and Accidental Occurrences is subject to all of the terms and conditions of the Policy provided however that any provisions of the Policy inconsistent with Sections A through F of this Endorsement are hereby amended to conform to Sections A through F.

A. The limits of liability as respects bodily injury and property damage are provided in an amount not less than $1,000,000 per occurrence with an annual aggregate of not less than $2,000,000 exclusive of legal defense costs.

B. The Insurer is liable for the payment of amounts within any deductible applicable to the Policy, with a right of reimbursement by the Insured for any such payment made by the Insurer.

C. A Notice of Violation or Order issued by the Michigan Department of Environment, Great Lakes, and Energy or other environmental agency shall not be deemed in and of itself sufficient evidence of an insured's intentional, knowing, willful, or deliberate noncompliance with a legal requirement so as to preclude coverage under this Policy.

D. The Insurer will provide the Materials Management Division at the address below with at least 30 days advance written notice of cancellation, termination, or material change to the Policy which affects the coverage required by MAC R 299.9710. Such notices shall be provided no matter which party initiates the cancellation, termination, or material change, and whether or not nonpayment of premium is involved.

E. The following are the only specific pre-existing soil and groundwater conditions (defined in the referenced assessments or reports) that are excluded from coverage under the Policy (Attach additional pages if necessary): _____

F. No condition, provision, stipulation, limitation, or exclusion contained in the Policy, or any other endorsement thereon, or any violation thereof, shall relieve the insurer from liability or from the payment of any claim, within the stated limits of liability in this Endorsement, for bodily injury and property damage to a third party caused by a sudden and accidental occurrence.

The Insurer hereby certifies that it has issued the Insured the Policy to provide financial assurance and responsibility for bodily injury and property damage caused by Sudden and Accidental Occurrences arising from operation of the covered facility(ies), and that the Insurer is licensed to transact the business of insurance, or is eligible to provide insurance as an excess or surplus lines insurer, in the State of Michigan.

Filing of this Endorsement is required by Law (MAC R299.9710)

Submit one original signed Endorsement to:

HAZARDOUS WASTE SECTION
MATERIALS MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
PO BOX 30241
LANSING MI 48909-7741

Name of Authorized Agent Tokio Marine Specialty Insurance Company	
Street Address or PO Box One Bala Plaza	
City, State and Zip Code Bala Cynwyd, PA 19004	
Signature of Authorized Agent	Date 07/23/2020

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

HAZARDOUS WASTE FACILITY LIABILITY ENDORSEMENT

This endorsement modifies and is subject to the insurance provided under the following:

PREMISE ENVIRONMENTAL COVERAGE

It is hereby agreed that the policy is amended as follows:

1. This endorsement certifies that the policy to which the endorsement is attached provides liability insurance covering bodily injury and property damage in connection with the insured's obligation to demonstrate financial responsibility under the State of Michigan Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and R 299.9710 or the State of Michigan Natural Resources and Environmental Protection Act, 1994 PA 451, as amended and R 299.9711 of the Michigan Administrative Code (MAC). The coverage applies at US Ecology Romulus, Inc. FKA EQ Resource Recovery, Inc., 36345 Van Born Road, Romulus, MI 48174, EPA I.D. No.MID 060 975 844, Michigan Disposal, Inc.,49350 N. I-94 Service Drive, Belleville, MI 48111, EPA I.D. No.MID 000 724 831, Wayne Disposal, Inc.,49350 N. I-94 Service Drive, Belleville, MI 48111, EPA I.D. No.MID 048 090 633, EQ Detroit, Inc.,1923 Frederick Street, Detroit, MI 48211, EPA I.D. No.MID 980 991 566, EQ Industrial Services, Inc., 2000 Ferry Street, Detroit, MI 48211, EPA I.D. No. MIK435642742, Wayne Disposal, Inc. 36345 Van Born Road, Romulus, MI 48174, EPA I.D. No. MIK435642742, US Ecology Detroit North, 6520 Georgia Street, Detroit, MI 48211, EPA I.D. No. MID 074 259 656, for sudden and accidental and non-sudden accidental occurrences. The limits of liability are $4,000,000 each occurrence and $8,000,000 annual aggregate, exclusive of legal defense costs.

2. The insurance afforded with respect to such occurrences is subject to all of the terms and conditions of the policy; provided, however, that any provisions of the policy inconsistent with subsections (a) through (e) of this Paragraph 2 are hereby amended to conform with subsections (a) through (e):

   (a) Bankruptcy or insolvency of the insured shall not relieve the Insurer of its obligations under the policy to which this endorsement is attached.

   (b) The Insurer is liable for the payment of amounts within any deductible applicable to the policy, with a right of reimbursement by the insured for any such payment made by the Insurer. This provision does not apply with respect to that amount of any deductible for which coverage is demonstrated as specified in the State of Michigan Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and R 299.9710 or the State of Michigan Natural Resources and Environmental Protection Act, 1994 PA 451, as amended and R 299.9711 of the Michigan Administrative Code (MAC).

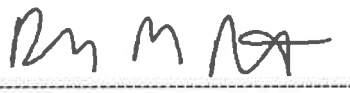
   (c) Whenever requested by the Michigan Department of Environmental Quality, Waste Management and Radiological Protection Division (DEQ), the Insurer agrees to furnish to the DEQ a signed duplicate original of the policy and all endorsements.

   (d) Cancellation of this endorsement, whether by the Insurer, the insured, a parent corporation providing insurance coverage for its subsidiary, or by a firm having an insurable interest in and obtaining liability insurance on behalf of the owner or operator of the hazardous waste management facility, will be effective only upon written notice and only after the expiration of 60 days after a copy of such written notice is received by the DEQ.

(e) Any other termination of this endorsement will be effective only upon written notice and only after the expiration of thirty (30) days after a copy of such written notice is received by the DEQ.

Attached to and forming part of policy No. PPK2161035 issued by Tokio Marine Specialty Insurance Company, herein called the Insurer, of One Bala Plaza, Bala Cynwyd, PA 19004 to US Ecology, Inc. of 101 Capitol Blvd., Suite 1000, Boise, ID 83702 this 1st day of August, 2020. The effective date of said policy is August 1 of 2020.

I hereby certify that the wording of this endorsement is identical to the wording specified in the State of Michigan Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and R 299.9710 or the State of Michigan Natural Resources and Environmental Protection Act, 1994 PA 451, as amended and R 299.9711 of the Michigan Administrative Code (MAC) as such regulation was constituted on the date first above written, and that the Insurer is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more States.



Signature of Authorized Representative of Insurer

Ryan Nulton
Senior Specialty Broker, Authorized Representative of Tokio Marine Specialty Insurance Company
One Bala Plaza, Bala Cynwyd, PA 19004

All other policy terms and conditions remain unchanged.

Appendix A-7: ”Proof of Payment”
$500.00 Application Fee

R 299.9508(1)(H)

014348

06/06/2008

INVOICE NUMBER	INVOICE DATE	DESC. VOUCHER	DUE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
08 PART III LI	05/29/2008	Vchr: VO026200		500.00	0.00	500.00

374 MISTMI5 STATE OF MICHIGAN 500.00

#709099

WARNING: DO NOT ACCEPT THIS DOCUMENT UNLESS YOU SEE A GHOSTMARK ON THE BACK WHEN HELD AT A 45 DEGREE ANGLE TO THE LIGHT

EQ Detroit, Inc.
36255 Michigan Avenue
Wayne, MI 48184

Comerica Bank
Detroit MI

9-9/720

DATE 06/06/2008 CHECK NUMBER 014348

PAY Five hundred and 00 / 100 Dollars Only **********

500.00

TO THE ORDER STATE OF MICHIGAN

NOT VALID AFTER 90 DAYS

WARNING: THIS DOCUMENT IS PRINTED ON PAPER WITH INVISIBLE FLUORESCENT FIBERS, IS CHEMICALLY REACTIVE AND HAS A MULTI LANGUAGE VOID

⑈014348⑈ ⑆072000096⑆ 185134975⑈

Appendix A- 8: Closure Post-Closure Cost Estimate

R 299.9508(1)(c)

See **Section I** for “Closure Cost Estimate” and “Post-Closure Cost Estimate”

Appendix A-8

EQD CLOSURE COST ESTIMATE

Revision 1, 11/28/17

A. TRANSPORTATION AND DISPOSAL OFF-SITE	Volume	Unit of Measure	Unit Cost	Unit of Measure	Extended Cost	
Listed Hazardous Waste - Tanks/Containers (274,600 gallons)						
Treatment & Disposal Cost	274,600	gal	$ 0.55	$/gal	$ 151,030.00	
Transportation Cost	21	trips	$ 750.00	each	$ 16,222.50	
Empty Drum Disposal	1,480	drums	$ 15.00	each	$ 22,866.00	
Listed Hazardous Waste - Vaults (418 cubic yards)						
Treatment & Disposal Cost	418	cu.yd.	$ 108.00	each	$ 46,498.32	
Transportation	11	trips	$ 750.00	each	$ 8,497.50	
Subtotal						***$ 245,114.32***
Characteristic Hazardous Waste - Tanks/Containers (518,855 gallons)						
Treatment & Disposal Cost	518,855	gal	$ 0.55	$/gal	$ 293,931.36	
Transportation Cost	55	trips	$ 750.00	each	$ 42,487.50	
Empty Drum Disposal	5,921	drums	$ 30.00	each	$ 182,958.90	
Characteristic Hazardous Waste - Vaults (1,672 cubic yards)						
Treatment and Disposal Cost	1,672	cu.yd.	$ 44.00	each	$ 75,775.04	
Transportation Cost	35	trips	$ 450.00	each	$ 16,222.50	
Subtotal						***$ 611,375.30***
Waste Characterization (32 waste management units)	32	samples	$ 750.00	each	$ 24,720.00	
Subtotal						***$ 24,720.00***

Appendix A-8

EQD CLOSURE COST ESTIMATE

B. DECONTAMINATION ACTIVITIES	Volume	Unit of Measure	Unit Cost	Unit of Measure	Extended Cost	
Loading/Unloading and Container Storage Areas						
Labor, 5 workers	750	total hours	$ 70.00	hour	$ 54,075.00	
Absorbent	100	bags	$ 10.00	each	$ 1,030.00	
Empty drums	30	drums	$ 30.00	each	$ 927.00	
Disposal of contaminated absorbent (including trans)	30	drums	$ 200.00	each	$ 6,180.00	
Pressure steam unit rental (2 units including detergent)	15	days	$ 250.00	day	$ 3,862.50	
Lab testing of second rinsewaters	10	samples	$ 500.00	each	$ 5,150.00	
Off-site treatment/disposal of wash/rinse waters	50,000	gallons	$ 0.70	$/gal	$ 36,050.00	
Transportation of wash/rinse waters	5	load	$ 750.00	each	$ 3,862.50	
Subtotal						***$ 111,137.00***
Tanks, Vaults, Conveyors, Pugmill, etc.						
Labor, 13 workers	1,950	total hours	$ 70.00	hour	$ 140,595.00	
Pressure steam unit rental (2 units including detergent)	15	days	$ 250.00	day	$ 3,862.50	
Lab testing of rinse samples following decon	64	samples	$ 500.00	each	$ 32,960.00	
Off-site treatment/disposal of wash/rinse waters	110,000	gallons	$ 0.70	$/gal	$ 79,310.00	
Transportation of wash/rinse waters	11	load	$ 750.00	each	$ 8,497.50	
Disposal of Contaminated PPE	25	drums	$ 65.00	each	$ 1,673.75	
Subtotal						***$ 266,898.75***

EQD CLOSURE COST ESTIMATE

C. SOIL SAMPLING / VERIFICATION SAMPLING	Volume	Unit of Measure	Unit Cost	Unit of Measure	Extended Cost	
Soil boring installaton & sampling	32	borings	$ 750.00	each	$ 24,720.00	
Soil sampling & analysis	32	samples	$ 600.00	each	$ 19,776.00	
Soil excavation, labor, 5 workers	250	total hours	$ 70.00	hour	$ 18,025.00	
Soil excavation, misc. equipment	50	total hours	$ 200.00	hour	$ 10,300.00	
Soil transportation cost (volume = 221,000 sq. ft. x 2 ft. x 10% = 1,637 cu. yd.)	35	trips	$ 500.00	each	$ 18,025.00	
Soil disposal cost	1,637	cu.yd.	$ 44.00	$/cu. yd.	$ 74,188.84	
Verification sampling	30	samples	$ 600.00	each	$ 18,540.00	
Subtotal						***$ 183,574.84***

D. RAIL SECONDARY CONTAINMENT	Volume	Unit of Measure	Unit Cost	Unit of Measure	Extended Cost	
Waste characterization	1	sample	$ 750.00	each	$ 772.50	
Soil transportation cost (volume = 81,520 gallons or 405 cu.yd.)	8	trips	$ 750.00	each	$ 6,180.00	
Soil disposal cost	405	cu.yd.	$ 44.00	$/cu. yd.	$ 18,354.60	
Subtotal						***$ 6,952.50***

E. CERTIFICATION BY REGISTERED ENGINEER	Volume	Unit of Measure	Unit Cost	Unit of Measure	Extended Cost	
Periodic inspections during closure activities by an independent engineer	20	weeks	$ 4,500.00	week	$ 92,700.00	
Closure certification	75	hours	$ 190.00	hour	$ 14,677.50	
Subtotal						***$ 107,377.50***

TOTAL	***$1,557,150.21***

Appendix A- 9: Operating License Application “Signed and Certified”

R 299.9508

And

40 CFR 270.11(a), (b), and (d)

Site ID M I D 9 8 0 9 9 1 5 6 6

19. Electronic Manifest Broker

☐ Y ☑ N	Are you notifying as a person, as defined in 40 CFR 260.10, electing to use the EPA electronic manifest system to obtain, complete, and transmit an electronic manifest under a contractual relationship with a hazardous waste generator?

20. Comments (include item number for each comment)

21. 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 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 fines and imprisonment for knowing violations.
Note: For the RCRA Hazardous Waste Part A Permit Application, all owners and operators must sign (see 40 CFR 270.10(b) and 270.11).

Signature of legal owner, operator, or authorized representative JCBt	Date (mm/dd/yyyy) 02/25/2022
Printed Name (First, Middle Initial, Last) John C. Barta	Title General Manager
Email john.barta@usecology.com	

Signature of legal owner, operator, or authorized representative	Date (mm/dd/yyyy)
Printed Name (First, Middle Initial, Last)	Title
Email	

Appendix A- 10: Administrative Completeness Checklist and Location of Information

FOR

HAZARDOUS WASTE MANAGEMENT FACILITY OPERATING LICENSE APPLICATION

Hazardous Waste Waste Management Facility

Operating License Application

Administrative Completeness Checklist

Facility Name: EQ Detroit, Inc. **EQP ID Number: MID 980 991 566**

Required Information **R 299.9504 and R 299.9508**	**Yes**	**No**	**Comments/Location in Application**
Table of Contents	X		Section A
Application for Hazardous Waste Treatment, Storage or Facility Operating License R 299.9508(1)(a)	X		Appendix A-2
Part A Hazardous Waste Permit Application, including Facility Photographs of Treatment Storage and Disposal Areas R 299.9504(1)(b); 270.13	X		Appendix A-1
$500.00 Application Fee R 299.9508(1)(h)	X		Appendix A-7
Certification and Signature R 299.9508(3); 270.11 -Owner -Operator -Titleholder of Land	X X X X		Appendix A-9
Proof of Issuance (Copies) of all Necessary State Environmental Permits (e.g. Air Use; Surface Water, Sewer Discharge R299.9508(1)(f)	X		Appendix A-4
Part B General Information **R 299.9504(1)(c); 270.14(b) and (d)**			
General Facility Description 270.14(b)(1)	X		Sections A & B
Chemical and Physical Analyses 270.14(b)(2)	X		Section C

Required Information **R 299.9504 and R 299.9508**	**Yes**	**No**	**Comments/Location in Application**
Waste Analysis Plan 270.14(b)(3); 264.13(b) and (c); R 299.9605	X		- Section C
Security Procedures and Equipment 270.14(b)(4); 264.14; R299.9605	X		Section F
Inspection Schedule 270.14(b)(5); 264.15(b); R 299.9605	X		Section O & M
Request for Waiver of Preparedness and Prevention Requirements 270.14(b)(6); Part 264 Subpart C;R 299.9606		X	
Contingency Plan 270.14(b)(7); Part 264 Subpart D; R 299.9607	X		Section G
Hazard Prevention 270.14(b)(8)	X		Section F
Precautions to Prevent Accidental Ignition or Reaction of Ignitable, Reactive or Incompatible Wastes 270.24(b)(9); 264/17; R 299.9605	X		Section F
Traffic Information 270.14(b)(10)	X		Section N
Facility Location Information 100-Year Floodplain Information 270.14(b)(11)(iii – v); R 299.9603(4)	X		Section L
Personnel Training Program 270.14(b)(12); 264.16; R 299.9605	X		Section H
Closure/Post Closure Plan(s) 270.14(b)(13); 264.112;264.118; 264.197; R 299.9613	X		Section I
Post-Closure Notices 270.14(b)(14); 264,119; R 299.9613	X		Section I and A
Closure Cost Estimate 270.14(b)(15);264.142; R 299.9702	X		Appendix A-8

Required Information **R 299.9504 and R 299.9508**	**Yes**	**No**	**Comments/Location in Application**
Topographic Map (Scale 1 inch <200 feet) 270,14(b)(19)	X		Drawing Package/Drawing CD
Compliance with Other Federal Laws 270.14(b)(20); 270.3	X		Section K
For Land Disposal Facilities: Copy of Approval of 268.6 Petition 270.14(b)(21)		X (NA)	
Corrective Action 270.14(d)(1-3); R 299.9504(16); Section 15a	X		Section E
Waste Management Unit Information; Location (Topo Map), Type, Size, Operation Dates & Wastes Managed 270.14(d)(1)(i-v)	X		Table A-1, Table A-2, Table D-1, Drawing Package/Drawing CD
Contaminant Release Information 270.14(D)(2)	X		Section G
Results of Environmental Sampling and Analysis 270.14(d)(3)	X		Section E Appendices E-1, E-2, E-3
Summary/Status of Facility Corrective Action Activities to Date R 299.9504(16); Section 15a	X		Section E
Hydrogeological Report R 299.9504(1)(d); R 299.9506,or	X		Section E Appendices E-1, E-2
Justification for a Waiver of R 299.9504(1)(d) and/or R 299.9506 Hydrogeological Report Requirements R 299.9506(7); R 299.9508(2)	X		Section E
Environmental Assessment R 299.9504(1)(e) Including Failure Mode Assessment and Exposure Information Report (Land Disposal Facilities Only)	X		Section J

Required Information **R 299.9504 and R 299.9508**	**Yes**	**No**	**Comments/Location in Application**
Environmental Monitoring Program R 299.9504(1)(f); R 299.9611(2-5)	X		Section E
Sampling and Analysis Plan for each Environmental Monitoring Program R 299.9611(2)(a)	X		Section E
Groundwater Monitoring Program R299.9611(2)(b); R 299.9612		X	Section E
Ambient Air Monitoring Program R. 299.9611(2)(c)	X		Section E
Annual Soil Monitoring Program R 299.9611(2)(d)		X	Section E
Monitoring Waiver Demonstration R 299.9611(3 and 4)	X		Section E
Other Monitoring Programs (e.g. Sewer Effluent, Surface Water) R 299.9611(5)	X		Section E
Engineering Plans of Facility Process Equipment and Containment Structures (signed/sealed by a Registered P.E.) R 299.9504(1)(g)	X		Section D Drawing Package/Drawing CD
Plan Views, Elevations, Sections, Supplementary Views and General Layout Drawings R 299.9504(1)(g)(i)	X		Section D Drawing Package/Drawing CD
Specifications for all Construction Materials and Installation Methods R 299.9504(1)(g))ii)	X		Section D Drawing Package/Drawing CD
Basis of Design for all Process Equipment and Containment Structures R 299.9504(1)(g)(iii)	X		Section D Drawing Package/Drawing CD
Flow Diagram of All Process(es) R 299.9504(1)(g)(iv)	X		Section D Drawing Package/Drawing CD

Required Information **R 299.9504 and R 299.9508**	**Yes**	**No**	**Comments/Location in Application**
	X		
Design Capacity of Each Process R 299.9504(1)(g)(v)	**X**		Section D Drawing Package/Drawing CD Table D-1
Container Storage Information R 299.9504(2); 270.15; Part 264 Subpart I; R 299.9614	**X**		Section D Drawing Package/Drawing CD Table D-5
Tank Storage/Treatment Information R 299.9504(3); 270.16; Part 264 Subpart J; R 299.9615	**X**		Section D Drawing Package/Drawing CD Table D-1
Incinerator/Thermal Treatment Information R 299.9504(4); 270.62(b)(2) or 270.19(c); Part 264 Subpart O; R 299.9623 – R 299.9626		**X** **(NA)**	
Treatment Information R 299.9504(5)	**X**		Sections C and D
Surface Impoundment Storage/Treatment Information R 299.9504(6); R 299.9505 (new or upgraded units); 270.17; Part 264 Subpart K; R 299.9620- R 200.9622		**X** **(NA)**	
Waste Pile Storage Treatment Information R 299.9504(7); R 299.9505 (new or upgraded units); 270.18; Part 264 Subpart L; R 299.9620- R 200.9622		**X** **(NA)**	
Landfill Information R 299.9504(8); R 299.9505 (new cells); 270.21; Part 264 Subpart N; R 299.9619- R 200.9622		**X** **(NA)**	
Land Treatment Information R 299.9504(9);; 270.20; Part 264 Subpart M; R 299.9618		**X** **(NA)**	

Required Information **R 299.9504 and R 299.9508**	**Yes**	**No**	**Comments/Location in Application**
Miscellaneous Units Treatment/Storage/Disposal and Underground Mine or Cave Storage/Disposal Information R 299.9504(10-11); R 299.9628; 270.23; Part 264 Subpart X		**X** **(NA)**	
Air Emissions from Equipment Leaks Information R 299.9504(12); R 299.9630; 270.24; Part 264 Subpart AA	**X**		Section E
Air Emissions from Process Vents Information R 299.9504(13); R 299.9631; 270.25; Part 264 Subpart BB	**X**		Section E
Drip Pads Treatment/Storage/Disposal Information R 299.9504(14); R 299.9632; 270.26; Part 264 Subpart W		**X** **(NA)**	
Environmental and Human Health Standards Generally R 299.9504(16); R 299.9602	**X**		Section J
Act 451 Facility Location Standards R 299.9504(16); R 299.9603 (1-3)(5)	**X**		Sections A
Facility Design and Operating Standards R 299.9504(16); R 299.9604	**X**		Sections A
Run-on Control System 24-hour, 25-year Storm R 299.9504(1)(a)	**X**		Section J Drawing Package/Drawing CD
Run-Off Management System 24-hour, 100-year Storm R 299.9604(1)(b)	**X**		Section J Drawing Package/Drawing CD
Systems to Prevent Release of Hazardous Waste Constituents into Soil, Surface Water, Groundwater, Drains and Sewers 24-hour, 25-year Storm R 299.9604(1)(c)	**X**		Section J Drawing Package/Drawing CD

Required Information **R 299.9504 and R 299.9508**	**Yes**	**No**	**Comments/Location in Application**
Waiver of R 299.9504(1)(a) and (b) for Existing Non-Land disposal Facilities R 299.9504(2)		**X** **(NA)**	
Procedures to Insure that Proper Transport Vehicles and other Containers are Empty before Leaving the Facility R 299.9504(16); R 299.9605(2)	**X**		Section O
Manifest System R 299.9504(16); R 299.9605(2)	**X**		Section M

Section A: Operation License Application Form and General Information	**Act 451**	**RCRA**
Application form provided by the director: names addresses of owner, operator and land title holder	R508(1)a	270.13
Provide all general information for a construction permit application	R508(1)b	270.13
RCRA Activities	R504(1)b	270.13
Name, mailing address, location including longitude and latitude	R504(1)b	270.13
SIC Codes	R504(1)b	270.13
Operator's name, address phone number and private corporation status	R504(1)b	270.13
Owner's name, address and phone number	R504(1)b	270.13
Statement that the facility is not on Indian land	R504(1)b	270.13
Statement that this is an existing facility and this is a revised application	R504(1)b	270.13
Scaled drawing of the facility showing present TAD areas	R504(1)b	270.13
Facility Photographs	R504(1)b	270.13
Processes and their design capacity to treat, store or dispose of hazardous waste	R504(1)b	270.13
Hazardous waste types and quantities to be treated, stored or disposed at facility annually and processes used for each	R504(1)b	270.13
Permit or construction approvals received or applied for:	R504(1)b	270.13
RCRA		
UIC		
NPDES under CWA		
PSD under CAA		
Non-attainment program under CAA		
NESHAPS preconstruction application under CAA Ocean dumping under MPRSA		

Section A: Operation License Application Form and General Information	**Act 451**	**RCRA**
Dredge or Fill Permits under CWA 404		
Other relevant environmental permits		
Topographic Map to one mile beyond the property boundary of source	R504(1)b	270.13
Nature of the Business	R504(1)b	270.13
Description of hazardous debris categories and contaminant categories	R504(1)b	270.13
Topographic map showing 1,000 feet around facility	R504(1)c	270.14(b)
Proof of issuance of all necessary State environmental Permits	R508(1)f	270.14(k)
License Fee Proof of Payment	R508(1)h	
Signed and certified applications, including land title holder	R508(3)	270.11

	Act 451	**RCRA**
Section B: Facility Site Description	R504(1)c	270.14b
General Description of Facility		
Section C: Waste Analysis Plan	R504(1)c	270.14b
Chemical and physical analysis of wastes and debris to be handled		
Section D: Engineering Plans	R504(1)g	
Engineering Plans: Plan Views, elevations and sections Specifications on all construction materials Basis of Design for all process equipment and containment strucures Flow diagram of entire process Design Capacity		
Container Storage Information	R504(2	270.15
Treatment or Storage in Tanks	R504(3) R504(5)	270.16

Treatment of Hazardous Waste	R504(5)a	
Demonstration of how method will do all the following:		
Change of physical, chemical or biological character/composition of waste		
Neutralization of waste		
Recovery of energy or material resources from waste		
Render the waste non-hazardous	R504(5)b	
Toxicity Characteristic of waste		
Demonstration that constituents are chemically bound or rendered non-hazardous	R504(5)c	
Proper treatment techniques	R504(5)d	
Statement that treatment chemicals do not damage construction	R504(5)e	
Statement that no interference occurs with hazardous waste constituents	R504(5)f	
Statement that no hazardous waste constituents/contaminants release toxic gases during treatment	R504(5)g	
Statement that no hazardous waste constituents/contaminants might form toxic constituents during treatment	R504(5)h	
Trial tests, bench scale, pilot plant scale on each type of hazardous waste	R504(1)c	270.14d
Information for each Solid Waste Unit		
Unit location on Topographic Map		
Type of Unit		
General dimensions and structural description		
When unit was operated		
List of all wastes managed at unit		
Hazardous waste or hazardous waste constituents released from such units		
RCRA Facility Assessment		
Section E: Environmental Monitoring Program		
Environmental Monitoring R611		
Ambient Air Monitoring	R611	
Groundwater Monitoring	R611	
Surface Water Monitoring	R611	
Soil Monitoring	R611	
Hydrological Report	R504(1)d	

Section F: Procedures to Prevent Hazards		
Security Procedures and Equipment	R504(1)c	264.14
Preparedness and Prevention	R504(1)c	264C
Procedures, Structures and equipment used at the facility Prevent hazards in unloading operations Prevent runoff from hazardous waste areas Prevent contamination of water supplies Mitigate effects of equipment failure and power outages Prevent undue exposure to personnel to hazardous waste Prevent releases to the atmosphere	R504(1)c	270.14(b)
Precautions to prevent accidental ignition or reaction of ignitable, reactive or incompatible wastes	R504(1)c	264/17
Section G: Contingency Plan		
Contingency Plan and Emergency Procedures	R504(1)c	264D
Section H: Personnel Training		
Training programs sto operate and maintain TSDF	R504(1)c	270.14(b), 264.16
Section I: Closure/Post Closure Plan		
Closure/Post Closure Plans	R504(1)c	270.14(b), 264.112
Notices filed for hazardous waste units closed	R504(1)c	270.14(b)
Closure Cost Estimate	R504(1)c	264.142
Proof of Financial Assurance	R504(1)c	264.143
Post Closure Cost Estimate	R504(1)c	264.144
Proof of Financial Assurance	R504(1)c	264.145
Proof of Insurance	R504(1)c	264.147
Coverage by State Financial Mechanism	R504(1)c	264.149, 264.150
Closure/Post Closure Cost Estimate and Certificate of Construction	R508(1)c	

Proof of Financial Assurance	R508(1)e	
Section J: Environmental Assessment		
Environmental Assessment including Failure Mode Assessment with: Foreseeable potential release Pathways of human exposure Magnitude and nature of human exposure	R504(1)e	
Section K: Compliance with Other Federal Laws		
Other federal laws		
Section L: Facility Location Information		
Facility Location information Applicability of seismic standard per political jusrisdiction Demonstration of compliance with seismic standard Whether facility is in 100 year flood plain	R504(1)c	270.14(b)
Section M: Operating Records		
Operating Records reports procedures		
Section N: Traffic Information		
Traffic Pattern, estimated volume and control, access road surface and load bearing capacity	R504(1)c	170.14(b)
Section O: Inspection Schedule		
General Inspection Schedule	R504(1)c	264/15(b)

Appendix A- 11: Nature of the Business

R 299.9504(1)(b)

And

40 CFR 270.13

Section XII of EGLE EQP5111

Nature of the Business

EQ Detroit, Inc. (EQD) is a Treatment, Storage, and Disposal Facility (TSDF). EQD accepts hazardous and non-hazardous wastes as described in Section C. Details on storage, treatment, and process capacity are found in Appendices A-1, A-13, and A-14.

EQD will accept wastes in bulk (gallon, yard, ton) or containers such as drums, roll-offs, totes, and dump trailers, 5-gallon buckets, glass jars and vials, and railcars. Waste treatment technologies include, but are no limited to, chemical fixation/stabilization, chemical oxidation, chemical reduction chemical precipitation, corrosive acid/base treatment, deactivation and oil treatment processing.

Appendix A- 12: Certificate of Capability to Store and Treat

R 299.9508(1)(d)

Addendum to Appendix A-12

September 12, 2022

Appendix A-12 Document Name: Certification Statement - Capability to Dispose of Hazardous Waste dated September 10, 2008

The original Certification Statement requires two corrections.

1. The second line of Appendix A-12 document Certification Statement incorrectly references disposal. EQ Detroit, Inc. does not have a landfill for disposal. The waste received is treated, stored, and/or shipped off site to its ultimate destination.

   Remove – "Capability to Dispose of Hazardous Waste"

   Insert – "Capability to Store & Treat Hazardous Waste"

2. The reference in the second paragraph, second sentence to Rule 508(d) is incorrect.

   Remove – "I hereby certify that the facility meets the minimum requirements of Part 111 of the Natural Resources and Environmental Protection Act PA 451, and of the Resource Conservation and Recovery Act, and can store and treat hazardous waste. This certification is per the requirements of Michigan Regulations (R 299.9508) Rule 508(d), which incorporates U.S. Environmental Protection Agency (EPA) Resource Conservation and Recovery act 40 CFR 264."

   Insert – "I hereby certify that the facility meets the minimum requirements of Part 111 of the Natural Resources and Environmental Protection Act PA 451, and of the Resource Conservation and Recovery Act, and can store and treat hazardous waste. This certification is per the requirements of Michigan Regulations (R 299.9508) Rule 508(1)(d), which incorporates U.S. Environmental Protection Agency (EPA) Resource Conservation and Recovery act 40 CFR 264."

CERTIFICATION STATEMENT

CAPABILITY TO DISPOSE OF HAZARDOUS WASTE

EQ Detroit

1923 Frederick Street

Detroit, MI

I, Michael A. Olson, P.E, have directed the inspection and review of existing conditions, equipment and material specifications at the above site. My duties were to review the use and current condition of the facility and certify that it is capable of disposing of hazardous waste.

I hereby certify that the facility meets the minimum requirements of Part 111 of the Natural Resources and Environmental Protection Act PA 451, and of the Resource Conservation and Recovery Act, and is capable of storing and treating hazardous waste. This certification is per the requirements of Michigan Regulations (R 299.9508) Rule 508(d), which incorporates U.S. Environmental Protection Agency (EPA) Resource Conservation and Recovery Act 40 CFR 264.

I certify under penalty of law that this document was 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 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.

Signature of Certifier: M. A. Olson

Name of Certifier: Michael A. Olson, P.E.

Date of Certification: September 10, 2008

Professional Engineer Registration No: 34978

State of Registration: Michigan

Appendix A-13: Permits or Construction Approvals

This information is provided in Appendix A-4: Necessary Environmental Permits

Appendix A-14: Description of Hazardous Debris Categories and Contaminant Categories

R 299.9504(1)(b)

And

40 CFR 270.13

Hazardous Debris must be treated prior to Land Disposal, unless the debris is no longer contaminated with hazardous waste, or the debris is treated to the specific treatment standards specified in 40 CFR 268.5 using technologies identified in Table I of 268.45. Treated hazardous Debris will be managed as specified in 268.45(c). Contaminant categories in debris may include those contaminants identified in Table UTS of 40 CFR

This information is found in the Waste Analysis Plan of this Application

Appendix D-1: Tank Certification

CERTIFICATION STATEMENT

HAZARDOUS WASTE TANK 201

I, David E. Navarre, P.E., have reviewed inspection data regarding Tank 201, located in the Northwest corner of Building B of the City Environmental, Inc., Hazardous Waste Processing Facility at 1923 Frederick Street in Detroit, Michigan. My duties were to review the use and current condition of the tank and certify that it is suitable for continued service. This certification is per the requirements of Michigan Regulations (R299.9615) Rule 615, which incorporates U.S. Environmental Protection Agency (EPA) Resource Conservation and Recovery Act CFR 264.191 and 264.193. This certification specifically covers 40 CFR 264.191, paragraphs (a), (b), (c), and (d), and 40 CFR 264.193 paragraphs (a), (b), (c)(1) – (c)(4), and (d) – (h).

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 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.

Signature of Certifier:	David E. Navarre
Name of Certifier:	David E. Navarre, P.E.
Date of Certification:	September 27, 1999
Professional Engineer Registration No:	22703
State of Registration:	Michigan

Prepared by: McNamee Industrial Services, Inc.

CERTIFICATION STATEMENT

HAZARDOUS WASTE TANK 202

I, David E. Navarre, P.E., have reviewed inspection data regarding Tank 202, located in the Northwest corner of Building B of the City Environmental, Inc., Hazardous Waste Processing Facility at 1923 Frederick Street in Detroit, Michigan. My duties were to review the use and current condition of the tank and certify that it is suitable for continued service. This certification is per the requirements of Michigan Regulations (R299.9615) Rule 615, which incorporates U.S. Environmental Protection Agency (EPA) Resource Conservation and Recovery Act CFR 264.191 and 264.193. This certification specifically covers 40 CFR 264.191, paragraphs (a), (b), (c), and (d), and 40 CFR 264.193 paragraphs (a), (b), (c)(1) – (c)(4), and (d) – (h).

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 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.

Signature of Certifier:	David E Navarre
Name of Certifier:	David E. Navarre, P.E.
Date of Certification:	September 27, 1999
Professional Engineer Registration No:	22703
State of Registration:	Michigan

Prepared by: McNamee Industrial Services, Inc.

CERTIFICATION STATEMENT

HAZARDOUS WASTE TANK 203

I, David E. Navarre, P.E., have reviewed design and installation specifications regarding Tank 203, to be installed in the Northwest corner of Building B of the City Environmental, Inc., Hazardous Waste Processing Facility at 1923 Frederick Street in Detroit, Michigan. My duties were to review the proposed use and certify that it is suitable for the proposed service. This certification is per the requirements of Michigan Regulations (R299.9615) Rule 615, which incorporates U.S. Environmental Protection Agency (EPA) Resource Conservation and Recovery Act CFR 264.192 and 264.193. This certification specifically covers 40 CFR 264.192, paragraphs (a) through (g), and 40 CFR 264.193 paragraphs (a), (b), (c)(1) – (c)(4), and (d) – (h).

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 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.

Signature of Certifier: David E. Navarre

Name of Certifier: David E. Navarre, P.E.

Date of Certification: November 19, 1999

Professional Engineer Registration No: 22703

State of Registration: Michigan

Prepared by: McNamee Industrial Services, Inc.

Abletech Industries LLC
8383 Millview Ct.
Dexter, MI 48130
Tel: 734-677-2420
Fax: 734-677-2445
Email: info@abletech.com

October 1, 2018

Via Email
andrew.osip@usecology.com

Mr. Andrew Osip
US Ecology Detroit South (USE)
1923 Frederick St.
Detroit, MI 48211

Re: Certification - closure and replacement - Tank 204 - Chem-Pre Waste Water building, 1923 Frederick St., Detroit.

Dear Mr. Osip:

I have inspected and reviewed with you the subject work on June 1, 2108, and have again reviewed the work with you today, October 1, 2018. The work consisted of closure and removal of the existing steel tank; and replacing it with a new fiberglass tank.

The existing tank was an upright, vertical carbon-steel tank of approximately 17,000-gallon capacity. It was used primarily for treatment of hazardous and non-hazardous waste waters. Impact Environmental Services of Taylor, MI properly closed and removed the tank from the site during September 7 through September 13, 2018. Closure consisted of removal of the contents, pressure washing the inside with hot water and detergent, rinsing, and dismantling and removal of the tank from the site.

The new tank is an upright, vertical fiberglass tank of 16,603-gallon capacity. It is a Balding Tank Technologies F.R.P. tank model C-CDV-14-16603 tank. It too will be used primarily for treatment of hazardous and non-hazardous waste waters. Lee Industrial Contracting of Pontiac, MI rigged the tank in place starting September 24, 2018. USE completed piping connections to the tank on September 28. Lastly, USE filled the tank with water to conduct 24-hour (minimum) leak testing during September 28 through October 1. The tank successfully passed leak testing on October 1, and all work was complete on October 1, 2018. From my inspection and review with you it appears this work has been completed in a good and workmanlike manner, consistent with standard practices, and is ready for service as permitted.

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 fines and imprisonment for knowing violations[1]. Please let me know if you have any questions or I can be of further assistance.

Thank you for retaining Ableteck Industries LLC. for these services.

Sincerely,

M. A. Olson

Michael A. Olson, P.E.
Engineer/Principal
Ableteck Industries LLC

[1] Certification pursuant to 40 CFR 270.11(d)(1).

Abletech Industries LLC
8383 Millview Ct.
Dexter, MI 48130
Tel: 734-677-2420
Fax: 734-677-2445
Email: info@abletech.com

September 26, 2016

Via Email
andrew.osip@usecology.com

Mr. Andrew Osip
US Ecology Detroit South (USE)
1923 Frederick St.
Detroit, MI 48211

Re: Certification - closure and replacement - Tank 205 - Chem-Pre Waste Water building, 1923 Frederick St., Detroit.

Dear Mr. Osip:

I have inspected and reviewed with you the subject work, on August 1, 2016; and again have reviewed the work with you today, September 26, 2016. The work consisted of closure and removal of the existing steel tank; and replacing it with a new fiberglass tank.

The existing tank was an upright, vertical carbon-steel tank of 16,913 gallon capacity. It was used primarily for treatment of organic waste. DJA Inspection of Reno, PA inspected this tank according to Steel Tank Institute (STI) SPOO1standard on October 25, 2015. The inspection found it to be unfit for continued service due to excessive corrosion. USE has therefore stopped treatment of organic waste in it and used it as storage tank until this spring when it was taken out of service for replacement. Impact Environmental Services of Taylor, MI properly closed and removed the tank from the site during May31, 2016 to June 9, 2016. Closure consisted of removal of the contents, pressure washing the inside with hot water and detergent, rinsing, and dismantling and removal of the tank from the site.

The new tank is an upright, vertical fiberglass tank of 16,619 gallon capacity. It is a Balding Tank Technologies F.R.P. tank model C-CDV-14-16619 tank. It too will be used primarily for treatment of organic waste. Balding fabricated this tank in sections for assembly on site. Lee Industrial Contracting of Pontiac MI rigged the tank sections together in place starting on June 13, 2016. Wagner Enterprises of Troy, MI bonded and sealed the sections together according to manufacturer recommendations and finished on June 21, 2016. USE completed piping connections to the tank on September 3, 2016. Lastly, USE filled the tank with water to conduct 24-hour (minimum) leak testing during September 2 through September 8. The tank successfully passed leak testing on September 8, and all work was complete on September 9. From my inspection and review with with you it appears this work has been completed in a good and workmanlike manner, consistent with standard practices, and is ready for service as permitted.

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 fines and imprisonment for knowing violations[1].

Please let me know if you have any questions or I can be of further assistance. Thank you for retaining Abletech Industries LLC. for these services.

Sincerely,

M. A. Olson

Michael A. Olson, P.E.
Engineer/Principal
Abletech Industries LLC

[1]Certification pursuant to 40 CFR 270.11(d)(1).

CERTIFICATION STATEMENT

HAZARDOUS WASTE TANK 206

I, David E. Navarre, P.E., have reviewed inspection data regarding Tank 206, located at the South end of Building B of the City Environmental, Inc., Hazardous Waste Processing Facility at 1923 Frederick Street in Detroit, Michigan. My duties were to review the use and current condition of the tank and certify that it is suitable for continued service. This certification is per the requirements of Michigan Regulations (R299.9615) Rule 615, which incorporates U.S. Environmental Protection Agency (EPA) Resource Conservation and Recovery Act CFR 264.191 and 264.193. This certification specifically covers 40 CFR 264.191, paragraphs (a), (b), (c), and (d), and 40 CFR 264.193 paragraphs (a), (b), (c)(1) – (c)(4), and (d) – (h).

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 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.

Signature of Certifier:	David E. Navarre
Name of Certifier:	David E. Navarre, P.E.
Date of Certification:	September 27, 1999
Professional Engineer Registration No:	22703
State of Registration:	Michigan

Prepared by: McNamee Industrial Services, Inc.

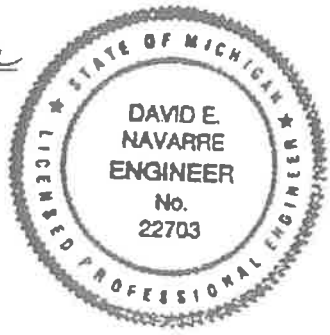
CERTIFICATION STATEMENT

HAZARDOUS WASTE TANK 207

I, David E. Navarre, P.E., have reviewed inspection data regarding Tank 207, located East of the filter press in Building B at the City Environmental, Inc., Hazardous Waste Processing Facility at 1923 Frederick Street in Detroit, Michigan. My duties were to review the use and current condition of the tank and certify that it is suitable for continued service. This certification is per the requirements of Michigan Regulations (R299.9615) Rule 615, which incorporates U.S. Environmental Protection Agency (EPA) Resource Conservation and Recovery Act CFR 264.191 and 264.193. This certification specifically covers 40 CFR 264.191, paragraphs (a), (b), (c), and (d), and 40 CFR 264.193 paragraphs (a), (b), (c)(1) – (c)(4), and (d) – (h).

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 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.

Signature of Certifier:	David E Navarre
Name of Certifier:	David E. Navarre, P.E.
Date of Certification:	September 27, 1999
Professional Engineer Registration No:	22703
State of Registration:	Michigan



Prepared by: McNamee Industrial Services, Inc.

Abletech Industries LLC
8383 Millview Ct.
Dexter, MI 48130
Tel: 734-677-2420
Fax: 734-677-2445
Email: info@abletech.com

October 1, 2018

Via Email
andrew.osip@usecology.com

Mr. Andrew Osip
US Ecology Detroit South (USE)
1923 Frederick St.
Detroit, MI 48211

Re: Certification - closure and replacement - Tank 208 - Chem-Pre Waste Water building, 1923 Frederick St., Detroit.

Dear Mr. Osip:

I have inspected and reviewed with you the subject work on June 1 and September 7, 2018, and have again reviewed the work with you today, October 1, 2018. The work consisted of closure and removal of the existing steel tank, and replacing it with a new fiberglass tank.

The existing tank was an upright, vertical carbon-steel tank of approximately 17,000-gallon capacity. It was used primarily for storage of hazardous waste water and sludge. The new tank was installed in a new location in the same building, south and east of the existing tank, and placed into service prior to removal of the existing tank.

The new tank is an upright, vertical fiberglass tank of 16,603-gallon capacity. It is a Balding Tank Technologies F.R.P. tank model C-CDV-14-16603 tank. It too will be used primarily for storage of hazardous waste water and sludge. Balding fabricated this tank in sections for assembly on site. Lee Industrial Contracting of Pontiac MI rigged the tank sections together starting on August 13, 2018. Wagner Enterprises of Troy, MI bonded and sealed the sections together according to manufacturer recommendations and finished on August 23. USE completed piping connections to the tank on August 31. Lastly, USE filled the tank with water to conduct 24-hour (minimum) leak testing during September 4 to September 6. The tank successfully passed leak testing on September 6, and all work was complete on September 7, 2018. From my inspection and review with you it appears this work has been completed in a good and workmanlike manner, consistent with standard practices, and is ready for service as permitted.

Impact Environmental Services of Taylor, MI properly closed and removed the existing tank during September 7 to September 13, 2018. Closure consisted of removal of the contents, pressure washing the inside with hot water and detergent, rinsing, and dismantling and removal of the tank from the site.

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 fines and imprisonment for knowing violations[1]. Please let me know if you have any questions or I can be of further assistance.

Thank you for retaining Ableteck Industries LLC. for these services.

Sincerely,

M. A. Olson

Michael A. Olson, P.E.
Engineer/Principal
Ableteck Industries LLC

M. A. Olson
10/01/2018

[1] Certification pursuant to 40 CFR 270.11(d)(1).

CERTIFICATION STATEMENT

HAZARDOUS WASTE TANK 305

I, David E. Navarre, P.E., have reviewed inspection data regarding Tank 305, located in the Acid Treat Room of Building B of the City Environmental, Inc., Hazardous Waste Processing Facility at 1923 Frederick Street in Detroit, Michigan. My duties were to review the use and current condition of the tank and certify that it is suitable for continued service. This certification is per the requirements of Michigan Regulations (R299.9615) Rule 615, which incorporates U.S. Environmental Protection Agency (EPA) Resource Conservation and Recovery Act CFR 264.191 and 264.193. This certification specifically covers 40 CFR 264.191, paragraphs (a), (b), (c), and (d), and 40 CFR 264.193 paragraphs (a), (b), (c)(1) – (c)(4), and (d) – (h).

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 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.

Signature of Certifier:	David E Navarre
Name of Certifier:	David E. Navarre, P.E.
Date of Certification:	September 27, 1999
Professional Engineer Registration No:	22703
State of Registration:	Michigan

Prepared by: McNamee Industrial Services, Inc.

Sidock Group, Inc.

ENGINEERS • ARCHITECTS • CONSULTANTS • PROJECT MANAGERS

December 21, 2020

Mr. Andrew Osip
US Ecology – Detroit South
1923 Frederick St.
Detroit, MI 48211

Subject: Certification – Installation of Tank #306: Detroit South Facility

Mr. Osip,

I have inspected and reviewed with you the installation of the new Tank #306, on December 18, 2020 as mentioned above in the subject. The work consisted of the removal of and existing tank and installation of the new storage tank #306 at the US Ecology Detroit South facility. It will be used for the treatment of both hazardous and non-hazardous waste. The existing tank was used for the same service but had reached its end of life due to typical wear and degradation of its internal resin. The new tank is of the same size and orientation as the previous tank; a vertical, cylindrical, Fiberglass Reinforced Plastic (FRP) tank; approximately 14'-0" in diameter and 18'-0" in height, with a 20,000-gallon nominal capacity. The new tank also utilizes an improved interior resin (Derakane Signia 411) to maximize the life of the new tank.

The new tank was designed and manufactured by Belding Tank Technologies. Lee Industrial Contracting rigged and installed the new tank in December, 2020. Lee Contracting also completed piping tie-ins/connections to the tank on December 16, 2020. A 24-hour (minimum) hydrostatic test was conducted in which Tank #306 was filled with water to verify all seals and connections. Tank #306 has successfully passed all necessary testing and was returned to service on December 21, 2020. From my inspection and review with you, it appears as though all work has been completed using skilled labor experienced in the installation process for premanufactured tanks. Standard construction processes appear to have been followed in a consistent and reliable manner and is suitable for service as permitted.

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 fines and imprisonment for knowing violations.

If you have any questions, comments, or concerns regarding this report, please contact me at your earliest convenience. As always, Sidock Group, Inc. appreciates the opportunity to be of service to US Ecology and looks forward to our continuing relationship.

Sincerely,

Kevin J. Hirzel, P.E.
Project Manager
Sidock Group, Inc.

CERTIFICATION STATEMENT

HAZARDOUS WASTE TANK 301

I, David E. Navarre, P.E., have reviewed inspection data regarding Tank 301, located in the Acid Treat Room of Building B of the City Environmental, Inc., Hazardous Waste Processing Facility at 1923 Frederick Street in Detroit, Michigan. My duties were to review the use and current condition of the tank and certify that it is suitable for continued service. This certification is per the requirements of Michigan Regulations (R299.9615) Rule 615, which incorporates U.S. Environmental Protection Agency (EPA) Resource Conservation and Recovery Act CFR 264.191 and 264.193. This certification specifically covers 40 CFR 264.191, paragraphs (a), (b), (c), and (d), and 40 CFR 264.193 paragraphs (a), (b), (c)(1) – (c)(4), and (d) – (h).

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 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.

Signature of Certifier: David E. Navarre

Name of Certifier: David E. Navarre, P.E.

Date of Certification: September 27, 1999

Professional Engineer Registration No: 22703

State of Registration: Michigan

Prepared by: McNamee Industrial Services, Inc.

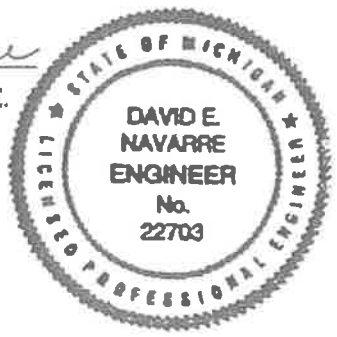
CERTIFICATION STATEMENT

HAZARDOUS WASTE TANK 302

I, David E. Navarre, P.E., have reviewed inspection data regarding Tank 302, located in the Acid Treat Room of Building B of the City Environmental, Inc., Hazardous Waste Processing Facility at 1923 Frederick Street in Detroit, Michigan. My duties were to review the use and current condition of the tank and certify that it is suitable for continued service. This certification is per the requirements of Michigan Regulations (R299.9615) Rule 615, which incorporates U.S. Environmental Protection Agency (EPA) Resource Conservation and Recovery Act CFR 264.191 and 264.193. This certification specifically covers 40 CFR 264.191, paragraphs (a), (b), (c), and (d), and 40 CFR 264.193 paragraphs (a), (b), (c)(1) – (c)(4), and (d) – (h).

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 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.

Signature of Certifier:	David E Navarre
Name of Certifier:	David E. Navarre, P.E.
Date of Certification:	September 27, 1999
Professional Engineer Registration No:	22703
State of Registration:	Michigan



Prepared by: McNamee Industrial Services, Inc.

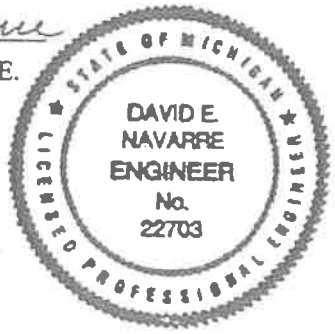
CERTIFICATION STATEMENT

HAZARDOUS WASTE TANK 303

I, David E. Navarre, P.E., have reviewed inspection data regarding Tank 303, located in the Acid Treat Room of Building B of the City Environmental, Inc., Hazardous Waste Processing Facility at 1923 Frederick Street in Detroit, Michigan. My duties were to review the use and current condition of the tank and certify that it is suitable for continued service. This certification is per the requirements of Michigan Regulations (R299.9615) Rule 615, which incorporates U.S. Environmental Protection Agency (EPA) Resource Conservation and Recovery Act CFR 264.191 and 264.193. This certification specifically covers 40 CFR 264.191, paragraphs (a), (b), (c), and (d), and 40 CFR 264.193 paragraphs (a), (b), (c)(1) – (c)(4), and (d) – (h).

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 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.

Signature of Certifier:	David E Navarre
Name of Certifier:	David E. Navarre, P.E.
Date of Certification:	September 27, 1999
Professional Engineer Registration No:	22703
State of Registration:	Michigan



Prepared by: McNamee Industrial Services, Inc.

CERTIFICATION STATEMENT

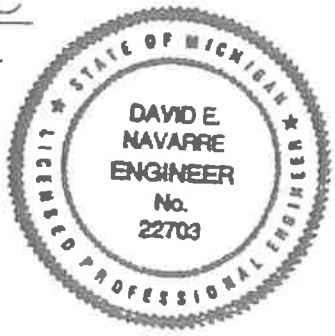
HAZARDOUS WASTE TANK 304

I, David E. Navarre, P.E., have reviewed inspection data regarding Tank 304, located in the Acid Treat Room of Building B of the City Environmental, Inc., Hazardous Waste Processing Facility at 1923 Frederick Street in Detroit, Michigan. My duties were to review the use and current condition of the tank and certify that it is suitable for continued service. This certification is per the requirements of Michigan Regulations (R299.9615) Rule 615, which incorporates U.S. Environmental Protection Agency (EPA) Resource Conservation and Recovery Act CFR 264.191 and 264.193. This certification specifically covers 40 CFR 264.191, paragraphs (a), (b), (c), and (d), and 40 CFR 264.193 paragraphs (a), (b), (c)(1) – (c)(4), and (d) – (h).

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 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.

Signature of Certifier: David E Navarre

Name of Certifier:	David E. Navarre, P.E.
Date of Certification:	September 27, 1999
Professional Engineer Registration No:	22703
State of Registration:	Michigan



Prepared by: McNamee Industrial Services, Inc.

BMJ
ENGINEERS & SURVEYORS, INC.
CIVIL ENGINEERS • LAND SURVEYORS

PRINCIPALS
Carolyn R. Hunter, P.S.
Philip J. Porte, P.E.

ASSOCIATES
Earl E. DesJardins, P.E.
Michael W. Quaine, P.E.
Michael P. Donahue, P.E.
Robert J. Arnold, P.S.
Michael J. Brunelle

April 30, 2012

Mr. Andrew Osip
EQ Detroit, Inc.
1923 Fredrick
Detroit, MI 48211

Re: Certification of 701 Waste Treatment Storage Vault

Dear Mr. Osip:

Per your request BMJ personnel visually inspected the above referenced 701 Waste Treatment Storage Vault on Thursday, April 19, 2012 and again on Saturday, April 21 and Sunday April 22. The April 19th inspection visit included a project scope discussion and an inspection of 701 Waste Treatment Storage Vault concrete repairs, which were found to be adequate. Steel plates for panels 4, 5 and 7 (see inspection reports) were shop welded and laid in place on April 19th.

The April 21st inspection visit was conducted to observe welding process and plate installations. Plate edges were prepared by American Steel Fabricators, Inc. for root pass welding. Root, hot and cover passes were observed at locations shown on April 21 inspection report.

The certifications of all welders supplied by the American Steel Fabricators, Inc were reviewed. BMJ personnel revisited the site on Sunday, April 22, 2012 for a final check on repair/welding progress. Toe plates were welded in place using project weld. Last item was a monitoring well cover to be installed. All other welding was completed and passed visual inspection.

The 701 Waste Treatment Storage Vault has been restored to the original operating condition, as described in the EQ Facility Operating License.

The work was performed during a ChemFix building outage on two successive weekends, beginning on Thursday, April 19, 2012.

The work in the 701 Waste Treatment Storage Vault consisted of:

1. Remove the existing 1 inch thick steel liner at the repair locations.
2. Make concrete repairs on the east wall and all corners of the vault floor. (See Sketch) Concrete repairs were made to the floors, corners east wall with Rapid Strength Repair Mortar.
3. Install approximately 956 sq. ft. of new 1.0 inch thick 36 KSI steel plate on 4 walls and 564 sq. ft. of new 1.0 inch thick 36 KSI steel plate on floor
4. All plate was pre-beveled.
5. A 1 inch x 12 inch reinforced toe plate was installed on a 45 degree angle to the bottom on both the new east and north walls. On the underside of the kicker plate 1 inch x 1 inch steel bars were welded on 12 inch centers
6. A reinforced corner plate tapering from 12 inch width on the bottom to 1 inch on the top was installed at the corner of the north and east walls.

519 HURON AVENUE • PORT HURON, MICHIGAN 48060 • PHONE: (810) 984-5596 • FAX: (810) 984-8760
Website: www.bmjinc.com

See the attached appendices for photos, welding certifications, inspection reports and sketches. The welding procedure required installing all root, hot, and cover passes with 'Lincoln Electric 71M, 0.052" flux-cored gas-shielded welding wire. The project required 3-4 cover passes once the root and hot passes were complete. The work performed will maintain the continuity and structural integrity of the steel lining for the 701 Waste Storage Vault.

From my review of the work and the applicable laws, I certify that the repairs of 701 Waste Treatment Storage Vault is capable of handling hazardous wastes without releasing them for the intended life of the system and can be returned to service. This certification is made in accordance with the requirements of 40 CFR 264.191, 40 CFR 264.193 and 40 CFR 270.11(d).

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.

If you have any questions or concerns regarding this or other issues contact me at 1-810-984-5596.

Sincerely,

Michael W. Quaine

Michael W. Quaine P.E.
Senior Project Engineer,
BMJ Engineers & Surveyors
State of Michigan 51468

CERTIFICATION STATEMENT

HAZARDOUS WASTE TANK 702

I, David E. Navarre, P.E., have reviewed inspection data regarding Tank 702, located in Southeast corner of Building D at the City Environmental, Inc., Hazardous Waste Processing Facility at 1923 Frederick Street in Detroit, Michigan. My duties were to review the use and current condition of the tank and certify that it is suitable for continued service. This certification is per the requirements of Michigan Regulations (R299.9615) Rule 615, which incorporates U.S. Environmental Protection Agency (EPA) Resource Conservation and Recovery Act CFR 264.191 and 264.193. This certification specifically covers 40 CFR 264.191, paragraphs (a), (b)(1) – (b)(4), (b)(5)(ii), (c), and (d), and 40 CFR 264.193 paragraphs (a) – (h).

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 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.

Signature of Certifier:	David E Navarre
Name of Certifier:	David E. Navarre, P.E.
Date of Certification:	September 27, 1999
Professional Engineer Registration No:	22703
State of Registration:	Michigan

Prepared by: McNamee Industrial Services, Inc.

Abletech Industries LLC
8383 Millview Ct.
Dexter, MI 48130
Tel: 734-677-2420
Fax: 734-677-2445
Email: info@abletech.com

May 13, 2019

Via Email
andrew.osip@usecology.com

Mr. Andrew Osip
US Ecology Detroit South
1923 Frederick St.
Detroit, MI 48211

Re: Certification – installation of new steel liner – Vault 703 - Chem-fix stabilization building, 1923 Frederick St., Detroit

Dear Mr. Osip:

Following your request, I have inspected and reviewed with you the subject work. During routine inspection and repair of the steel liner, US Ecology discovered excessive wear that was beyond repair, and decided to replace the entire liner. This work involved decontamination and removal of the old liner; cleaning, inspection and epoxy-sealing of the concrete walls and floor; and fabrication and installation of a new liner that is substantially identical to the old liner.

US Ecology retained Lee Contracting, Inc. of Pontiac, Michigan to fabricate and install the new liner. First, they laser-scanned the inside of the vault to create a CAD file for precise dimensioning and fit of the new liner within the vault. They then prefabricated the liner in two separate halves in their shop and shipped them to the site. The halves included temporary stiffeners and tie plates to provide for rigging and welding together within the vault. They lowered the halves into the vault, drew them together with bolts through the tie plates, and welded them together to form one main seam along the walls and floor running north-south. Finally, the tie plates and stiffeners were removed. The work was completed during April 25 through May 11, 2019. All welding was completed by independently qualified welders. Welder certifications and photographs are on file at US Ecology. The as-built condition of the new liner is documented in the attached drawing from Lee Industrial Contracting.

This work was completed in a good and workmanlike manner and the vault has been restored to its original permitted condition, free of defects or discontinuities that would compromise containment of waste. Therefore, in my professional opinion, the vault is fit for continued service as permitted.

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 fines and imprisonment for knowing violations[1].

Please let me know if you have any questions or I can be of further assistance. Thank you for retaining Abletech Industries LLC. for these services.

Sincerely,

M. A. Olson

Michael A. Olson, P.E.
Engineer/Principal
Abletech Industries LLC

[1]Certification pursuant to 40 CFR 270.11(d)(1).

Sidock Group, Inc.
ENGINEERS • ARCHITECTS • CONSULTANTS • PROJECT MANAGERS

June 13, 2022

Mr. Andrew Osip
US Ecology – Detroit North
6520 Georgia St.
Detroit, MI 48211

Subject: Certification – Installation of Steel Liner – Vault 704 Chem-Fix Stabilization Building, 1923 Frederick St., Detroit MI

Mr. Osip,

Following your request, I have inspected and reviewed with you the subject work. During routine inspection and repair of the steel liner, US Ecology discovered excessive wear that was beyond repair, and decided to replace the entire liner. This work involved decontamination and removal of the old liner; cleaning, inspection and epoxy-sealing of the concrete walls and floor; and fabrication and installation of a new liner that is substantially identical to the old liner.

US Ecology retained Lee Contracting, Inc. of Pontiac, Michigan to fabricate and install the new liner. First, they laser-scanned the inside of the vault to create a CAD file for precise dimensioning and fit of the new liner within the vault. They then prefabricated the liner in two separate halves in their shop and shipped them to the site. The halves included temporary stiffeners and tie plates to provide for rigging and welding together within the vault. They lowered the halves into the vault, drew them together with bolts through the tie plates, and welded them together to form one main seam along the walls and floor running north-south. Finally, the tie plates and stiffeners were removed. The work was completed between April 22, 2022 through June 13, 2022. All welding was completed by independently qualified welders. Welder certifications and photographs are on file at US Ecology.

This work was completed in a good and workmanlike manner and the vault has been restored to its original permitted condition, free of defects or discontinuities that would compromise containment of waste. Therefore, in my professional opinion, the vault is fit for continued service as permitted.

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 fines and imprisonment for knowing violations.

If you have any questions, comments, or concerns regarding this report, please contact me at your earliest convenience. As always, Sidock Group, Inc. appreciates the opportunity to be of service to US Ecology and looks forward to our continuing relationship.

Sincerely,

Kevin J. Hirzel, P.E.
Sr. Project Manager
Sidock Group, Inc.

CERTIFICATION STATEMENT

HAZARDOUS WASTE TANK 705

I, David E. Navarre, P.E., have reviewed inspection data regarding Tank 705, located in Southeast corner of Building D at the City Environmental, Inc., Hazardous Waste Processing Facility at 1923 Frederick Street in Detroit, Michigan. My duties were to review the use and current condition of the tank and certify that it is suitable for continued service. This certification is per the requirements of Michigan Regulations (R299.9615) Rule 615, which incorporates U.S. Environmental Protection Agency (EPA) Resource Conservation and Recovery Act CFR 264.191 and 264.193. This certification specifically covers 40 CFR 264.191, paragraphs (a), (b)(1) – (b)(4), (b)(5)(ii), (c), and (d), and 40 CFR 264.193 paragraphs (a) – (h).

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 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.

Signature of Certifier:	David E Navarre
Name of Certifier:	David E. Navarre, P.E.
Date of Certification:	September 27, 1999
Professional Engineer Registration No:	22703
State of Registration:	Michigan

Prepared by: McNamee Industrial Services, Inc.

Abletech Inc.
6449 Lintons Way
Ann Arbor, MI 48105
Tel. 734.677.2420
Fax. 734-677-2445

Via Email Attachment
File: "Certification 08071501.pdf"

July 15, 2008

Ms. Mary Peterson
QEHS Engineer
EQ Detroit, Inc.
1923 Frederick St.
Detroit, MI 48211
Email: mary.peterson@eqonline.com

Re: Certification of Hazardous Waste Tank 706
Southeast Corner of Chem-Fix Building

Dear Ms. Peterson:

Pursuant to your request I have personally inspected the above-referenced tank on July 9, 2008. This tank has recently been restored to its original condition, as described in the Hazardous Waste Tank Assessment[1], by American Steel Fabricators of Farmington, Michigan. Restoration work included re-lining the tank with welded 1-inch thick steel plate. From my inspection and review of the Hazardous Waste Tank Assessment, the current restored condition of this tank is suitable for continued service. This certification is made in accordance with the requirements of R 299.9615 of the Michigan Administrative Rules, and with 40 CFR 264.191 and 264.193.

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 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.

Please let me know if I can be of further assistance. Thank you for retaining Abletech, Inc. for these services.

Sincerely,

M. A. Olson

Michael A. Olson, P.E.
Principal, Abletech Inc.

---

[1] USL City Environmental, Inc., Hazardous Waste Tank Assessment, September 27, 1999.

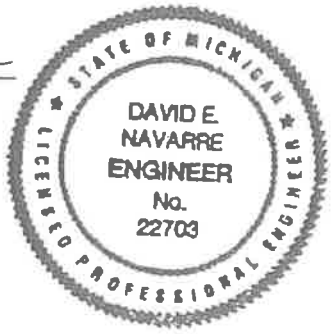
CERTIFICATION STATEMENT

HAZARDOUS WASTE TANK 901

I, David E. Navarre, P.E., have reviewed inspection data regarding Tank 901, located East of Building D at the City Environmental, Inc., Hazardous Waste Processing Facility at 1923 Frederick Street in Detroit, Michigan. My duties were to review the use and current condition of the tank and certify that it is suitable for continued service. This certification is per the requirements of Michigan Regulations (R299.9615) Rule 615, which incorporates U.S. Environmental Protection Agency (EPA) Resource Conservation and Recovery Act CFR 264.191 and 264.193. This certification specifically covers 40 CFR 264.191, paragraphs (a), (b)(1) – (b)(4), (b)(5)(ii), (c), and (d), and 40 CFR 264.193 paragraphs (a) – (h).

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 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.

Signature of Certifier:	David E Navarre
Name of Certifier:	David E. Navarre, P.E.
Date of Certification:	September 27, 1999
Professional Engineer Registration No:	22703
State of Registration:	Michigan



Prepared by: McNamee Industrial Services, Inc.

Appendix D-2

Manufacturer's Specification

See Sheet C-14 for information

Appendix G- 1: Notification Correspondence

Hazardous Waste Emergency Response Official
Michigan Department of Environmental Quality
Waste Management Division
Post Office Box 30028
Lansing, Michigan 48909

Subject: EQ Detroit, Inc. Facility

Dear Sir/Madame:

As you may be aware, EQ Detroit, Inc (EQD) operates a hazardous and non-hazardous waste facility at 1923 Frederick Street, Detroit, Michigan 48211. Hazardous and non-hazardous wastes are stored at the facility prior to processing in containers (i.e., drums) and above ground storage tanks. All hazardous wastes processed by EQD are shipped off-site and disposed of according to the U.S. EPA and Michigan Department of Environmental Quality (MDEQ) rules and regulations.

In accordance with these state and federal regulations, I am providing your department with a copy of our Contingency Plan, which describes the following:

1. The actions our personnel will take in response to emergencies (e.g., fires or spills of hazardous waste).
2. Arrangements we would like your department to agree to in the event of an emergency.
3. A layout of our plant (showing where personnel normally work, hazardous waste generation and storage areas, safety equipment, entrances to the plant and evacuation routes).
4. A description of the properties and associated hazards of the hazardous wastes handled at our plant.

We are requesting that your department approve the following services in the event of an emergency regarding waste storage at our facility:

- Technical support
- Communications support

Please review our Contingency Plan which is enclosed. If you agree to the arrangements, complete and return the enclosed form letter.

If you have any questions, please contact me at (313) 347-1300

Sincerely,
EQ Detroit, Inc

Mary Peterson
QEHS Engineer EQD

Police Chief
Detroit Police Department
1300 Beaubien Detroit, Michigan 48226

Subject: EQ Detroit, Inc. Facility

Dear Sir/Madame:

As you may be aware, EQ Detroit, Inc (EQD) operates a hazardous and non-hazardous waste facility at 1923 Frederick Street, Detroit, Michigan 48211. Hazardous and non-hazardous wastes are stored at the facility prior to processing in containers (i.e., drums) and above ground storage tanks. All hazardous wastes processed by EQD are shipped off-site and disposed of according to the U.S. EPA and Michigan Department of Environmental Quality (MDEQ) rules and regulations.

In accordance with these state and federal regulations, I am providing your department with a copy of our Contingency Plan, which describes the following:

1. The actions our personnel will take in response to emergencies (e.g., fires or spills of hazardous waste).
2. Arrangements we would like your department to agree to in the event of an emergency.
3. A layout of our plant (showing where personnel normally work, hazardous waste generation and storage areas, safety equipment, entrances to the plant and evacuation routes).
4. A description of the properties and associated hazards of the hazardous wastes handled at our plant.

We are requesting that your department approve the following services in the event of an emergency regarding waste storage at our facility:

- Technical support
- Communications support

Please review our Contingency Plan which is enclosed. If you agree to the arrangements, complete and return the enclosed form letter.

If you have any questions, please contact me at (313) 347-1300

Sincerely,
EQ Detroit, Inc

Mary Peterson
QEHS Engineer EQD

Fire Chief
Detroit Fire Department
900 Merrill Plaisance
Detroit, Michigan 48203

Subject: EQ Detroit, Inc. Facility

Dear Sir/Madame:

As you may be aware, EQ Detroit, Inc (EQD) operates a hazardous and non-hazardous waste facility at 1923 Frederick Street, Detroit, Michigan 48211. Hazardous and non-hazardous wastes are stored at the facility prior to processing in containers (i.e., drums) and above ground storage tanks. All hazardous wastes processed by EQD are shipped off-site and disposed of according to the U.S. EPA and Michigan Department of Environmental Quality (MDEQ) rules and regulations.

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We are requesting that your department approve the following services in the event of an emergency regarding waste storage at our facility:

- Technical support
- Communications support

Please review our Contingency Plan which is enclosed. If you agree to the arrangements, complete and return the enclosed form letter.

If you have any questions, please contact me at (313) 347-1300

Sincerely,
EQ Detroit, Inc

Mary Peterson
QEHS Engineer EQD

Civil Defense Coordinator
Detroit Emergency Medical Services
900 Merrill Plaisance
Detroit, Michigan 48203

Subject: EQ Detroit, Inc. Facility

Dear Sir/Madame:

As you may be aware, EQ Detroit, Inc (EQD) operates a hazardous and non-hazardous waste facility at 1923 Frederick Street, Detroit, Michigan 48211. Hazardous and non-hazardous wastes are stored at the facility prior to processing in containers (i.e., drums) and above ground storage tanks. All hazardous wastes processed by EQD are shipped off-site and disposed of according to the U.S. EPA and Michigan Department of Environmental Quality (MDEQ) rules and regulations.

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- Technical support
- Communications support

Please review our Contingency Plan which is enclosed. If you agree to the arrangements, complete and return the enclosed form letter.

If you have any questions, please contact me at (313) 347-1300

Sincerely,
EQ Detroit, Inc

Mary Peterson
QEHS Engineer EQD

Detroit Receiving Hospital
4201 St. Antoine Blvd.
Detroit, Michigan 48201

Subject: EQ Detroit, Inc. Facility

Dear Sir/Madame:

As you may be aware, EQ Detroit, Inc (EQD) operates a hazardous and non-hazardous waste facility at 1923 Frederick Street, Detroit, Michigan 48211. Hazardous and non-hazardous wastes are stored at the facility prior to processing in containers (i.e., drums) and above ground storage tanks. All hazardous wastes processed by EQD are shipped off-site and disposed of according to the U.S. EPA and Michigan Department of Environmental Quality (MDEQ) rules and regulations.

In accordance with these state and federal regulations, I am providing your department with a copy of our Contingency Plan, which describes the following:

1. The actions our personnel will take in response to emergencies (e.g., fires or spills of hazardous waste).
2. Arrangements we would like your department to agree to in the event of an emergency.
3. A layout of our plant (showing where personnel normally work, hazardous waste generation and storage areas, safety equipment, entrances to the plant and evacuation routes).
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We are requesting that your department approve the following services in the event of an emergency regarding waste storage at our facility:

- Technical support
- Communications support

Please review our Contingency Plan which is enclosed. If you agree to the arrangements, complete and return the enclosed form letter.

If you have any questions, please contact me at (313) 347-1300

Sincerely,
EQ Detroit, Inc

Mary Peterson
QEHS Engineer EQD

Hazardous Waste Emergency Response Official
Michigan Department of Environmental Quality
Waste Management Division
Lansing, Michigan 48909

Attention: Emergency Response Official

Subject: Formal Written Notification of
Incident/Emergency Response Plan Enactment

Dear Sir/Madame:

Pursuant to EQ Detroit Inc. (EQD) verbal notification of contingency plan enactment on _____, 20_____, this formal notification is provided. In accordance with 40 CFR 265.56(j), EQD is documenting this incident via the following information.

Name/Address/Telephone
Of Facility Owner:

EQ Detroit, Inc.
1923 Frederick Street
Detroit, Michigan 48211
(313) 923-0080

Facility Address:

1923 Frederick Street
Detroit, Michigan 48211
(313) 347-1300

Date/Time/Type of
Incident:

_____, 20____a.m./p.m.

(i.e., fire, explosion, release)

_____

_____

_____

Name & Quantity of
Material Involved:

Name: _____

_____

Quantity: _____

_____

Injuries: Yes No

If yes, extent of injuries:
(i.e., number of people, any hospitalization, mortalities, etc.)

Health/Environmental Hazard Assessment (Actual and Potential): Yes No
(i.e., surficial, groundwater, adjacent homes, soils, etc.)

_____

_____

Estimated Quantity/Deposition Of Recovered Material: Quantities:

Deposition (i.e., treated on-site, transported off-site)

_____

_____

_____

It is understood EQD is required to notify your office again prior to resuming operations. As our immediate notification stated, EQD was expecting to resume full operations with _____day(s) of incident resolution; however, the appropriate verification that: no incompatible released material was stored with existing waste and used emergency has been restored to operations order.

Should you have additional concerns, please contact the under signed.

Sincerely,
EQ Detroit, Inc.

Mary Peterson
QEHS Engineer

Appendix H- 1: EQD New Employee or Job Transfer Checklist (Example)

US Ecology Detroit South New Employee / Job Transfer / Contractor Safety Orientation Checklist

Associate Information:

Name: _____ Job Title: _____

Supervisor: _____ Dept./Location: _____

Contractor / Temp: ☐ Yes ☐ No If Yes, what company: _____

New Employee: ☐ Yes ☐ No Date of Hire / Transfer (circle one): _____

Job Transfer: ☐ Yes ☐ No On Site Start Date: _____

Emergency Contacts:

Name: _____ Relationship: _____ Phone: (____)_____

Name: _____ Relationship: _____ Phone: (____)_____

TO BE COMPLETED BY THE HEALTH & SAFETY REPRESENTATIVE ON THE FIRST DAY IN THE WORK AREA.

Review the following:				Review the following:			
Conducted Facility Tour	☐ Yes	☐ No	☐ N/A	Fall Protection Awareness	☐ Yes	☐ No	☐ N/A
US Ecology Health & Safety and Environmental Policy	☐ Yes	☐ No	☐ N/A	Ladder / Stairway Awareness	☐ Yes	☐ No	☐ N/A
	☐ Yes	☐ No	☐ N/A	Forklift Awareness	☐ Yes	☐ No	☐ N/A
Safety 360 Structure	☐ Yes	☐ No	☐ N/A	Compressed Gas Cylinder Awarer	☐ Yes	☐ No	☐ N/A
OSHA Employee Rights	☐ Yes	☐ No	☐ N/A	Hot Work Awareness	☐ Yes	☐ No	☐ N/A
Stop Work Card Program	☐ Yes	☐ No	☐ N/A	Ergonomics Awareness	☐ Yes	☐ No	☐ N/A
Accident / Incident Reporting	☐ Yes	☐ No	☐ N/A	Lockout / Tagout Awareness	☐ Yes	☐ No	☐ N/A
HazCom / Right to Know	☐ Yes	☐ No	☐ N/A	Machine Guarding Awareness	☐ Yes	☐ No	☐ N/A
Pictograms/ Warning Signs / Tags	☐ Yes	☐ No	☐ N/A	Smoking Policy			
Bloodborne Pathogens Awareness	☐ Yes	☐ No	☐ N/A	SPCC / PIP / SLUG Plans	☐ Yes	☐ No	☐ N/A
Eyewash & Shower Awareness	☐ Yes	☐ No	☐ N/A	Emergency Action Plan (EAP)	☐ Yes	☐ No	☐ N/A
ersonal Protective Equip. (PPE)	☐ Yes	☐ No	☐ N/A	DOT HM232 Trans. Security	☐ Yes	☐ No	☐ N/A
Respiratory Protection Awareness	☐ Yes	☐ No	☐ N/A	Review Management System w/ Site FA - Initials: ___ Date: _____	☐ Yes	☐ No	☐ N/A
Hearing Conservation	☐ Yes	☐ No	☐ N/A				
Confined Space Awareness	☐ Yes	☐ No	☐ N/A	24 or 40 Hour Hazwoper (circle 1)	☐ Yes	☐ No	☐ N/A

I acknowledge that I have received and understood information on the above subjects furnished to me during my orientation:

Employee Signature: _____ **Date:** _____

Health & Safety Representative: _____ **Date:** _____

TO BE COMPLETED BY THE ASSOCIATE'S IMMEDIATE SUPERVISOR IN THE FIRST WEEK IN THE WORK AREA.

Review the following:			
Work Area Specific Hazards/Rules/Procedures	☐ Yes	☐ No	☐ N/A
Site Specific Lockout/Tagout Procedures	☐ Yes	☐ No	☐ N/A
Specific Housekeeping Requirements	☐ Yes	☐ No	☐ N/A
Site Specific Safe Work Procedures	☐ Yes	☐ No	☐ N/A
Location of First Aid Kits / Fire Extinguishers	☐ Yes	☐ No	☐ N/A
Location of Weather Emergency Shelter	☐ Yes	☐ No	☐ N/A
Location of Shower / Eyewash	☐ Yes	☐ No	☐ N/A
Mechanical Hazards in the Workplace	☐ Yes	☐ No	☐ N/A
Department Specifics SOP's	☐ Yes	☐ No	☐ N/A

I acknowledge that I have received and understood information on the above subjects furnished to me during my orientation:

Employee Signature: _____ **Date:** _____

Department Manager: _____ **Date:** _____

Appendix H- 2: EQD Job Titles and Job Specific Training for Current Employees (Examples)

Job Title: LAB PACK COORDINATOR – LAB PACK GROUP

Reports To:	General Manager	Department:	14-09 (EQ-RM)
Grade Level:	L14 or 15	Company:	EQ Industrial Services
Date:	8/8/02	Prepared By:	Mark LaRowe
Date:	11/13/03	Revised By:	K. Newcombe
Date	4/21/04	Revised By:	J. Kasparek

Job Summary:

Describe the purpose of the position.

Manage and complete projects on time and on budget in a safe, efficient, and professional manner. Maintain a high standard of quality as well as collect, organize and provide appropriate cost, revenue and daily report documentation to the Operations Manager-Lab Pack Group or the Project Assistant.

Essential Functions:

Critical duties/tasks to fulfill the purpose of the position. A function is critical if you answer " yes" to this question, " Would the flow of work be interrupted by not performing this function?"

- Foster long lasting, productive relationships with customers you interact with.
- Estimate projects, set-up projects with OM or PA, manage the fieldwork to completion and customer satisfaction.
- Provide daily documentation of field activities, communications, and quantities installed.
- Assist with business development opportunities, supporting the account executives as necessary.

Additional Responsibilities:

- Ability to interface with PMG staff, vendors and customers as well as to "roll up the sleeves and get dirty".

Job Qualifications:

Required qualifications necessary to carry on the purpose and critical functions of the position.

- High School or equivalent required (college degree preferred, but extensive experience can be substituted).
- OHSA 40-Hour Hazwoper and with annual 8-hour refreshers.
- HM126-F training.
- DOT certification for labeling and packaging lab packs.
- Must be 21 years of age or older
- Must have prior experience with chemical/hazardous material management.
- Must be able to work together with project and business unit teammates to achieve common goals.
- Basic computer skills and working knowledge of Word and Excel.
- Able to read, write, and understand the English language and mathematics, and able to follow verbal and written instructions
- Conflict resolution and "Three Dimensional Thinking"
- Performance of other duties and responsibilities as required by management

Training Requirements

Required Training necessary to comply with company policy and regulatory requirements

- New employee orientation
- 40 Hour Hazwopper
- 8 Hour Refresher Training
- DOT Security Training
- ISO Training 9000 and 14000
- Fire Extinguisher Awareness Training
- Contingency Plan Training
- HM 126 Manifesting
- Chauffeurs License with a Hazmat endorsement

jobs USE

Job Title:	Environmental Technician Driver Job Family	EEOC Job Group:	6
Department:	Operations	USE EEO Code:	009
FLSA Status:	Non-Exempt	USE Job Code:	TECHENDR1,2,3,4
Approved:	Pending		

ABOUT US ECOLOGY

US Ecology, Inc. is a leading North American provider of environmental services to commercial and government entities. The Company addresses the complex waste management needs of its customers by offering treatment, disposal and recycling of industrial, hazardous and radioactive waste, as well as a wide range of complementary field and industrial services. US Ecology's focus on safety, environmental compliance, and customer service, enables us to effectively meet the needs of our customers and to build long-lasting relationships. Headquartered in Boise, Idaho, with operations in the United States, Canada and Mexico, the Company has been protecting the environment since 1952.

JOB SUMMARY

The Environmental Technician Driver will be responsible for proper transportation of various waste streams to include pharmaceutical waste at various generator sites. Operate Straight Trucks and Tractors Trailers to perform pickups of bulk and containerized hazardous and non-hazardous wastes. Performs a variety of duties that comply with government regulations and procedures.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Operates trucks which may include: roll-offs, tankers, tractor trailers and box trucks.
- Performs LTL pickups.
- Maintains company equipment.
- Ensures customer satisfaction.
- Maintains vehicle log.
- Maintains documentation of manifests and work orders.
- Performs DOT pre-trip and post trip inspections;
- Drive for an average of 8 to 14 hours per day with heavy loads being disposed of at designated TSDF facilities
- Processes hazardous and non-hazardous materials as needed.
- Assists in maintaining good housekeeping at facility and on grounds.
- Functions as technician on lab pack and field service projects.
- Performs other, related duties as assigned. These are duties may not be specifically listed in this description, but which are within the general nature typically associated with the employee's level of work.

OUR COMMITMENT TO ENVIRONMENTAL COMPLIANCE

Employees are required to report any concerns associated with environmental compliance to their supervisor, General Manager or Environmental Manager. Employees are also required to complete training in hazardous waste management procedures, emergency response and other topics as outlined in the facility's training program and/or an individual training matrix.

HEALTH AND SAFETY DUTIES AND RESPONSIBILITIES

While performing this job, the employee is responsible for continuous adherence to the Company's Health & Safety (H&S) Program. This includes: the health and safety of themselves and their coworkers, completing tasks in a safe manner, attending safety meetings and mandatory H&S training, and reporting any unsafe conditions, acts or unanticipated hazards to their Supervisor, General Manager or Health and Safety Specialist. Duties and responsibilities are detailed in the H&S Program Master Document and will be provided by the H&S Specialist and/or the direct supervisor during new-hire orientation, training sessions or upon request.

SUPERVISORY RESPONSIBILITIES

Environmental Technician Driver 2 and 3 may act as a team leader.

SKILLS, KNOWLEDGE, AND ABILITIES (SKA)

Knowledge of electrical, plumbing, hydraulic and compressor systems. Knowledge of pumps, motors, motor controls, instrumentation, metal fabrication, and other maintenance functions. Skilled using hand and shop tools, and instruments. Demonstrates, accuracy, thoroughness and attention to detail. Must be able to prioritize, stay focused and handle multiple, diverse responsibilities.

JOB LEVEL

	Environmental Technician Driver 1	Environmental Technician Driver 2	Environmental Technician Driver 3	Environmental Technician Driver 4
Pay Grade	TBD	TBD	TBD	TBD
Distinguishing Features	Incumbent works under close supervision, receives detailed work instructions, and applies basic judgement in resolving routine issues. Troubleshoots basic problems and identifies deviations from accepted practices.	Incumbent works under general supervision, receives general work instructions, and applies limited judgement in resolving problems. Works is semi-routine in nature and incumbent makes decisions within a moderate scope. May train or guide less experienced team members.	Incumbent works under minimal supervision, receives broad work instructions, and applies decision making skill to resolve moderately complex issues. Provides advice and guidance to less experienced team members. May act as a team leader.	Incumbent works under general direction, receives broad work instructions, and applies decision making skill to resolve complex issues. Incumbent independently determines methods and procedures on new assignments. Provides advice and guidance to less experienced team members. May act as a team leader.
Education and Experience	In addition to Maintenance Assistant. Some related technical education or	In addition to Environmental Technician Driver 1. A technical	In addition to Environmental Technician Driver 2. Applies advanced	In addition to Environmental Technician Driver 3. Expert knowledge of a single

	experience to have basic knowledge of maintenance practices and procedures.	certificate or equivalent combination of education or experience required to have intermediate knowledge of maintenance practices and procedures typically gained through 3 or more years of progressively responsible experience.	knowledge of a single maintenance function, OR Applies comprehensive knowledge of multiple maintenance functions typically gained through 5 or more years of progressively responsible experience.	maintenance function, OR Applies advanced knowledge of multiple maintenance functions typically gained through seven or more years of progressively responsible experience.
Language	In addition to Maintenance Assistant. Ability to read and interpret operating, maintenance and procedure manuals.	In addition to Environmental Technician Driver 2. Ability to present information in one-on-one and small group situations, including vendors and coworkers.	In addition to Environmental Technician Driver 3. Ability to read, analyze, and interpret technical procedures and or governmental regulations. Ability to write reports, correspondence and procedure manuals. Ability to effectively present information and respond to questions from management, internal and external customers.	In addition to Environmental Technician Driver 4. Ability to effectively manage and communicate work delivery expectations with internal customers.
Mathematical	Ability to add, subtract, multiply and divide.	In addition to Maintenance Assistant. Ability to add, subtract, multiply, and divide, using whole numbers, fractions, and decimals.	In addition to Environmental Technician Driver 2. Ability to apply basic geometric principles to calculate area, circumference, and volume. Ability to apply mathematical principles to practical situations.	Same as Environmental Technician Driver 2.

CERTIFICATIONS, LICENSES, AND REGISTRATIONS

A valid class B commercial driver's license is required. A class A CDL may be required for some positions.

COMPLIANCE STATEMENT

The personal and physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. The work environment characteristics described here are representative of those an employee encounters while

performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

PERSONAL DEMANDS

While performing the duties of this job, the employee may work alone, travel, work extended hours or shift work, with frequent interruptions and repetitious operations. This work requires high concentration with a moderate level of stress. Employee shall at all times demonstrate cooperative behavior with colleagues, clients, customers and vendors.

PHYSICAL DEMANDS

While performing the duties of this job the employee is frequently required to stand, walk, stoop, reach, climb or balance, hear and smell. The employee is required to use hands to handle, feel, and grasp. The employee must occasionally lift and/or move up to 50 pounds. The employee may need to work long hours on specific projects. There are frequent interruptions and repetitious motions. The employee may be in cramped or confined spaces for short periods of time. Specific vision abilities required by this job include close vision, color vision, depth perception and the ability to adjust focus. This position requires occasional customer, visitor, contractor, and vendor contact.

WORK ENVIRONMENT

The work is typically performed in a truck, at a customer's facility and/or company service facility. The elements will be dependent on the season. The noise level in the work environment is usually moderate.

Job Title: LTL RESOURCE COORDINATOR

Reports To:	Tom McGillis	Department:	LTL
Grade Level:	L12	Company:	EQ Detroit
Date:	August 8, 2005	Prepared By:	R. Wheatley
Date:	August 12, 2005	Revised By:	C. Secoy

Job Summary:
To help assist and coordinate the less than full truckload (LTL) shipments of existing accounts into EQ facilities. The coordinator may also be responsible for new sales via telemarketing to other LTL accounts in the Midwest with a special focus on Michigan.

Essential Functions:

- Help coordinate existing LTL business
- Design and implement successful LTL market targeting strategy.
- Work closely with Account Executives for cross-selling and new accounts.
- Coordinate the activities of the Account Executive's to achieve the sales goals for their defined geographical area.
- Complete required documentation and reporting.
- Actively target other competitors LTL business.
- Phone selling.

Additional Responsibilities:

- Maintain in-depth knowledge of EQ's product lines and services.
- Be familiar with competitor's products, sales & marketing techniques, and financial principles.
- Work closely with LTL Coordinator and T&P Operations Manager to achieve business and profit goals.
- Other duties as assigned by supervisor/manager.

Job Qualifications:

- Ability to maintain a professional presence.
- Ability to work with AE's for team sales.
- Excellent written, verbal and oral communication skills.
- Bachelor's degree in business, marketing or related field.

Training:

- 40 HR Hazwoper
- HM126F Manifest Training
- 8HR Hazwoper Refresher
- Strong Interpersonal Skills
- DOT Experience

TRAINING REQUIREMENTS

Job Title: **Receiving Supervisor**

Designation: **Hazardous Waste Worker**

Reports To:

Mandatory:

24 Hour HAZWOPER (initial)
8 Hour HAZWOPER Supervisor (initial)
8 Hour HAZWOPER Refresher (annual)
DOT HM-126F Training (triennial)
SPCC Plan (initial)
Hazard Communication (initial)
RCRA/Contingency Plan (initial and annual)
General Plant Hazards (initial)
Accident/Injury Reporting Protocol (initial)
PPE Requirements, Use and Acquisition (initial and annual)
Smoking Policies (initial)
OSHA Employee Rights (initial)
Compressed Gasses (initial)
Hearing Conservation (initial)
DOT HM-232 Transportation Security Plan (initial and annual)
Fall Protection (initial)
Basic Electrical Safety (initial)
Bloodborne Pathogens (initial)
Safe Lifting Techniques (initial)
Warning Signs/Tags (initial)

Suggested:

First Aid/CPR
Portable Fire Extinguisher
Drug and Alcohol Awareness

We consider all qualified applicants without regard to race, religion, color, sex, national origin, age, sexual orientation, disability or veteran status, among others factors.

JOB DESCRIPTION

Job Title: Maintenance Coordinator I
Department: Maintenance Department
Reports To: Maintenance Supervisor
FLSA Status: Non-Exempt

Job Group:
Job Code:
Location: Detroit, MI

SUMMARY

Maintain and repair all equipment required to support hazardous and nonhazardous waste operations including tanks, pumps and piping systems; buildings and grounds; mobile equipment and fabrications.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Comply with all USE Management System policies and procedures
- Daily use of Computer Maintenance Management System to track work, hours and other data
- Follows detailed verbal or written instructions
- Determines extent of repairs needed
- Provide feedback on equipment
- Perform preventative maintenance work
- Heavy and light equipment repairs
- Off road mobile equipment repairs
- Pump replacement, repairs, and rebuilds
- Piping system repairs and new installations
- Light welding fabrication and repairs from sketches
- Proper use of a variety of hand and power tools
- Locating and ordering parts for maintenance activities
- Assist in general housekeeping duties
- Handle special projects as needed

Performs other, related duties as assigned. These are duties which may not be specifically listed in the class specification or position description, but which are within the general occupational series and responsibility level typically associated with the employee's class of work.

Supervisory Responsibilities: This position has no supervisory responsibilities.

SKILLS/KNOWLEDGE/ABILITIES (SKA)

To perform the duties of this job, the employee must have good interpersonal skills; have strong attention to detail and be able to work independently using one's own sound judgement.

Education/Experience

- High School diploma or GED equivalent with some formal education or training
- Minimum of 3 year previous experience
- Thorough knowledge of equipment and aptitude for understanding mechanical systems
- Independent worker with sound judgment and multitasking skills
- Ability to read and follow detailed instructions
- Ability to work within a team environment
- Ability to work within a team environment and handle multiple tasks

Offered Training:
Training/certifications necessary to carry out the purpose and critical functions of the position.

- Accident/Incident Reporting
- Behavioral Based Safety (BBS)
- HAZWOPER 24 Hour
- HAZWOPER 8 Hour Refresher (annual)
- ISO 9001, 14001/OHSAS 18001 (Awareness)
- Personal Protective Equipment
- Forklift Certification
- First Aid/CPR
- Portable Fire Extinguisher
- Confined Space
- Hot Works
- LOTO
- Warning Signs & Tags
- Safe Lifting Techniques
- Safety Orientation
- Aerial Platform Training
- Fall Prevention
- Respiratory Protection (initial and annual)

Suggested Training:

- Hydrofluoric Acid First Aid
- Flammable/Combustible Liquid Handling
- Corrosive Chemical Handling

Certifications, licenses, registrations: None required.

Language Skills
Good oral communication skills to clearly understand and convey other's message and intent, and receives and processes feedback. Ability to read, comprehend and follow instructions and work manuals.

Mathematical Skills
Ability to perform basic math functions using whole numbers, common fractions, and decimals.

Reasoning Ability
Ability to apply common sense understanding in carrying out detailed written or oral instructions or requests. Ability to comprehend the consequences of various problem situations and to refer such problems to the appropriate individual for decision making.

HEALTH AND SAFETY DUTIES AND RESPONSIBILITIES

While performing this job, the employee is responsible for continuous adherence to the Company's Health & Safety Program. This includes: the health and safety of themselves, their direct reports and their coworkers, completing tasks in a safe manner, attending safety meetings and mandatory H&S training, and reporting any unsafe conditions, acts or unanticipated hazards to their Supervisor, General Manager or Health and Safety Specialist. Duties and responsibilities are detailed in the H&S Program Master Document and will be provided by the H&S Specialist and/or the direct supervisor during new-hire orientation, training sessions or upon request.

ENVIRONMENTAL COMPLIANCE

Employees are required to report any concerns associated with environmental compliance to their supervisor, General Manager or Environmental Manager. Employees are also required to complete training in hazardous waste management procedures, emergency response and other topics as outlined in the facility's training program and/or an individual training matrix.

COMPLIANCE STATEMENT

The personal and physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

PERSONAL DEMANDS

While performing the duties of this job, the employee may work alone and work extended hours. This work requires high concentration and attention to detail. Travel to neighboring site is required.

PHYSICAL DEMANDS

To perform the duties of this job, the employee is regularly required to use hands to handle or feel; reach with hands and arms; and talk or hear. The employee is occasionally required to stand, walk, climb, stoop, kneel, and lift and/or move up to 80 pounds.

WORK ENVIRONMENT

The work is typically performed in a medium to heavy plant environment. May work in a garage or outside in multiple weather conditions.

US Ecology is an Equal Opportunity/Affirmative Action Employer. We consider all qualified applicants without regard to race, religion, color, sex, national origin, age, sexual orientation, disability or veteran status, among other factors.

We consider all qualified applicants without regard to race, religion, color, sex,

national origin, age, sexual orientation, disability or veteran status, among others factors.

JOB DESCRIPTION

Job Title: **Maintenance Coordinator II**
Department: **Maintenance Department**
Reports To: **Maintenance Supervisor**
FLSA Status: **Non-Exempt**

Job Group:
Job Code:
Location: **Detroit, MI**

SUMMARY

Maintain and repair all equipment required to support hazardous and nonhazardous waste operations including tanks, pumps and piping systems; buildings and grounds; mobile equipment and fabrications.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Comply with all USE Management System policies and procedures
- Daily use of Computer Maintenance Management System to track work, hours and other data
- Follows detailed verbal or written instructions
- Prioritization of repairs to keep critical machinery functional
- Determines extent of repairs needed
- Provide feedback on equipment
- Perform preventative maintenance work
- Heavy and light equipment repairs
- Off road mobile equipment repairs
- Pump replacement, repairs, and rebuilds
- Piping system repairs and new installations
- Detailed welding fabrication and repairs from prints and sketches
- Proper use of a variety of hand and power tools
- Locating and ordering parts for maintenance activities
- Assist in general housekeeping duties
- Maintain parts and supply inventory
- Perform simple electrical trouble shooting and repairs.
- Handle special projects as needed

Performs other, related duties as assigned. These are duties which may not be specifically listed in the class specification or position description, but which are within the general occupational series and responsibility level typically associated with the employee's class of work.

Supervisory Responsibilities: This position has no supervisory responsibilities.

SKILLS/KNOWLEDGE/ABILITIES (SKA)

To perform the duties of this job, the employee must have good interpersonal skills; have strong attention to detail and be able to work independently using one's own sound judgement.

Education/Experience

- High School diploma or GED equivalent with some formal education or training
- Minimum of 3 year previous experience
- Thorough knowledge of equipment and aptitude for understanding mechanical systems
- Independent worker with sound judgment and multitasking skills
- Ability to read and follow detailed instructions
- Ability to work within a team environment
- Ability to work within a team environment and handle multiple tasks

Offered Training:
Training/certifications necessary to carry out the purpose and critical functions of the position.

- Accident/Incident Reporting
- Behavioral Based Safety (BBS)
- HAZWOPER 24 Hour
- HAZWOPER 8 Hour Refresher (annual)
- ISO 9001, 14001/OHSAS 18001 (Awareness)
- Personal Protective Equipment
- Forklift Certification
- First Aid/CPR
- Portable Fire Extinguisher
- Confined Space
- Hot Works
- LOTO
- Warning Signs & Tags
- Safe Lifting Techniques
- Safety Orientation
- Aerial Platform Training
- Fall Prevention
- Respiratory Protection (initial and annual)

Suggested Training:

- Hydrofluoric Acid First Aid
- Flammable/Combustible Liquid Handling
- Corrosive Chemical Handling

Certifications, licenses, registrations: None required.

Language Skills

Good oral communication skills to clearly understand and convey other's message and intent, and receives and processes feedback. Ability to read, comprehend and follow instructions and work manuals.

Mathematical Skills

Ability to perform basic math functions using whole numbers, common fractions, and decimals.

Reasoning Ability

Ability to apply common sense understanding in carrying out detailed written or oral instructions or requests. Ability to comprehend the consequences of various problem situations and to refer such problems to the appropriate individual for decision making.

HEALTH AND SAFETY DUTIES AND RESPONSIBILITIES

While performing this job, the employee is responsible for continuous adherence to the Company's Health & Safety Program. This includes: the health and safety of themselves, their direct reports and their coworkers, completing tasks in a safe manner, attending safety meetings and mandatory H&S training, and reporting any unsafe conditions, acts or unanticipated hazards to their Supervisor, General Manager or Health and Safety Specialist. Duties and responsibilities are

detailed in the H&S Program Master Document and will be provided by the H&S Specialist and/or the direct supervisor during new-hire orientation, training sessions or upon request.

ENVIRONMENTAL COMPLIANCE
Employees are required to report any concerns associated with environmental compliance to their supervisor, General Manager or Environmental Manager. Employees are also required to complete training in hazardous waste management procedures, emergency response and other topics as outlined in the facility's training program and/or an individual training matrix.

COMPLIANCE STATEMENT
The personal and physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

PERSONAL DEMANDS
While performing the duties of this job, the employee may work alone and work extended hours. This work requires high concentration and attention to detail. Travel to neighboring site is required.

PHYSICAL DEMANDS
To perform the duties of this job, the employee is regularly required to use hands to handle or feel; reach with hands and arms; and talk or hear. The employee is occasionally required to stand, walk, climb, stoop, kneel, and lift and/or move up to 80 pounds.

WORK ENVIRONMENT
The work is typically performed in a medium to heavy plant environment. May work in a garage or outside in multiple weather conditions.

US Ecology is an Equal Opportunity/Affirmative Action Employer. We consider all qualified applicants without regard to race, religion, color, sex, national origin, age, sexual orientation, disability or veteran status, among other factors.

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JOB DESCRIPTION

Job Title: Maintenance Coordinator III
Department: Maintenance Department
Reports To: Maintenance Supervisor
FLSA Status: Non-Exempt

Job Group:
Job Code:
Location: Detroit, MI

SUMMARY

Maintain and repair all equipment required to support hazardous and nonhazardous waste operations including tanks, pumps and piping systems; buildings and grounds; mobile equipment and fabrications.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Comply with all USE Management System policies and procedures
- Daily use of Computer Maintenance Management System to track work, hours and other data
- Follows detailed verbal or written instructions
- Prioritization of repairs to keep critical machinery functional
- Determines extent of repairs needed
- Provide feedback on equipment
- Perform preventative maintenance work
- Heavy and light equipment repairs
- Off road mobile equipment repairs
- Pump replacement, repairs, and rebuilds
- Piping system repairs and new installations
- Detailed welding fabrication and repairs from prints and sketches
- Proper use of a variety of hand and power tools
- Locating and ordering parts for maintenance activities
- Assist in general housekeeping duties
- Maintain parts and supply inventory
- Perform simple electrical trouble shooting and repairs
- Assist management in staffing assignments and prioritization of work
- Handle special projects as needed

Performs other, related duties as assigned. These are duties which may not be specifically listed in the class specification or position description, but which are within the general occupational series and responsibility level typically associated with the employee's class of work.

Supervisory Responsibilities: This position has no supervisory responsibilities.

SKILLS/KNOWLEDGE/ABILITIES (SKA)

To perform the duties of this job, the employee must have good interpersonal skills; have strong attention to detail and be able to work independently using one's own sound judgement.

Education/Experience

- High School diploma or GED equivalent with some formal education or training
- Minimum of 3 year previous experience
- Thorough knowledge of equipment and aptitude for understanding mechanical systems
- Independent worker with sound judgment and multitasking skills
- Ability to read and follow detailed instructions
- Ability to work within a team environment
- Ability to work within a team environment and handle multiple tasks

Offered Training:
Training/certifications necessary to carry out the purpose and critical functions of the position.

- Accident/Incident Reporting
- Behavioral Based Safety (BBS)
- HAZWOPER 24 Hour
- HAZWOPER 8 Hour Refresher (annual)
- ISO 9001, 14001/OHSAS 18001 (Awareness)
- Personal Protective Equipment
- Forklift Certification
- First Aid/CPR
- Portable Fire Extinguisher
- Confined Space
- Hot Works
- LOTO
- Warning Signs & Tags
- Safe Lifting Techniques
- Safety Orientation
- Aerial Platform Training
- Fall Prevention
- Respiratory Protection (initial and annual)

Suggested Training:

- Hydrofluoric Acid First Aid
- Flammable/Combustible Liquid Handling
- Corrosive Chemical Handling

Certifications, licenses, registrations: None required.

Language Skills
Good oral communication skills to clearly understand and convey other's message and intent, and receives and processes feedback. Ability to read, comprehend and follow instructions and work manuals.

Mathematical Skills
Ability to perform basic math functions using whole numbers, common fractions, and decimals.

Reasoning Ability
Ability to apply common sense understanding in carrying out detailed written or oral instructions or requests. Ability to comprehend the consequences of various problem situations and to refer such problems to the appropriate individual for decision making.

HEALTH AND SAFETY DUTIES AND RESPONSIBILITIES

While performing this job, the employee is responsible for continuous adherence to the Company's Health & Safety Program. This includes: the health and safety of themselves, their direct reports and their coworkers, completing tasks in a safe manner, attending safety meetings and mandatory H&S training, and reporting any unsafe conditions, acts or unanticipated hazards to their

Supervisor, General Manager or Health and Safety Specialist. Duties and responsibilities are detailed in the H&S Program Master Document and will be provided by the H&S Specialist and/or the direct supervisor during new-hire orientation, training sessions or upon request.

ENVIRONMENTAL COMPLIANCE
Employees are required to report any concerns associated with environmental compliance to their supervisor, General Manager or Environmental Manager. Employees are also required to complete training in hazardous waste management procedures, emergency response and other topics as outlined in the facility's training program and/or an individual training matrix.

COMPLIANCE STATEMENT
The personal and physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

PERSONAL DEMANDS
While performing the duties of this job, the employee may work alone and work extended hours. This work requires high concentration and attention to detail. Travel to neighboring site is required.

PHYSICAL DEMANDS
To perform the duties of this job, the employee is regularly required to use hands to handle or feel; reach with hands and arms; and talk or hear. The employee is occasionally required to stand, walk, climb, stoop, kneel, and lift and/or move up to 80 pounds.

WORK ENVIRONMENT
The work is typically performed in a medium to heavy plant environment. May work in a garage or outside in multiple weather conditions.

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jobs USE

Job Title:	Operations Manager Job Family	EEOC Job Group:	1- Officials & Managers
Department:	Operations	USE EEO Code:	002- Senior Managers
FLSA Status:	Exempt – Exec	USE Job Code:	MGROPS1,2
Approved:	Pending		

ABOUT US ECOLOGY

US Ecology, Inc. is a leading North American provider of environmental services to commercial and government entities. The Company addresses the complex waste management needs of its customers by offering treatment, disposal and recycling of industrial, hazardous and radioactive waste, as well as a wide range of complementary field and industrial services. US Ecology's focus on safety, environmental compliance, and customer service, enables us to effectively meet the needs of our customers and to build long-lasting relationships. Headquartered in Boise, Idaho, with operations in the United States, Canada and Mexico, the Company has been protecting the environment since 1952.

JOB SUMMARY

The Operations Manager plans and executes operations at their assigned location or business unit to ensure all operations are conducted in a safe, compliant and efficient manner consistent with the Company's established objectives, policies and procedures. Ensures projects, initiatives, and processes conform to established policies, objectives and initiatives, and are in compliance with federal, state and local regulations. Manages resources to accomplish identified priorities, and performs the following duties personally or through subordinate supervisors.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Provides technical support to management and subordinates.
- Participates in site evaluations and prepares inclusive quotes that include: scopes of work, price estimates and contingencies.
- Makes recommendations for improvement in workflow and project management.
- Works with governmental and regulatory agencies and maintains community relations.
- Ensures operations are properly staffed and personnel are properly trained.
- Participates in budget development and manages operating and capital expenditure budgets and reports.
- Develops and monitor applicable metrics to measure operational objectives.
- Evaluates operations to control costs and maintain competitive position.
- Ensures protection of Company assets through ongoing maintenance of facility infrastructure.
- Provide support of activities to renew, amend, modify or expand existing licenses or permits consistent with adopted business plans.
- Ensures implementation of company policies and procedures.
- Manages the operation in order to meet customer expectations for quality and service.
- Performs other, related duties as assigned. These are duties may not be specifically listed in this description, but which are within the general nature typically associated with the employee's level of work.

OUR COMMITMENT TO ENVIRONMENTAL COMPLIANCE

US Ecology is an Equal Opportunity/Affirmative Action Employer. We consider all qualified applicants without regard to race, religion, color, sex, national origin, age, sexual orientation, disability or veteran status, among other factors.

Employees are required to report any concerns associated with environmental compliance to their supervisor, General Manager or Environmental Manager. Employees are also required to complete training in hazardous waste management procedures, emergency response and other topics as outlined in the facility's training program and/or an individual training matrix.

HEALTH AND SAFETY DUTIES AND RESPONSIBILITIES

While performing this job, the employee is responsible for continuous adherence to the Company's Health & Safety (H&S) Program. This includes: the health and safety of themselves and their coworkers, completing tasks in a safe manner, attending safety meetings and mandatory H&S training, and reporting any unsafe conditions, acts or unanticipated hazards to their Supervisor, General Manager or Health and Safety Specialist. Duties and responsibilities are detailed in the H&S Program Master Document and will be provided by the H&S Specialist and/or the direct supervisor during new-hire orientation, training sessions or upon request.

SUPERVISORY RESPONSIBILITIES

Supervises employees per organization chart, directly or through subordinate foremen or supervisors who directly supervise the workers. Carries out supervisory responsibilities in accordance with the organization's policies and applicable laws. Responsibilities include interviewing, hiring, and training employees; planning, assigning, and directing work; appraising performance; rewarding and disciplining employees; addressing complaints and resolving problems.

SKILLS, KNOWLEDGE AND ABILITIES (SKA)

To perform the duties of this job, the employee must have thorough knowledge of complex regulations specific to the environmental waste industry, management principles and best practices including analysis and evaluation and research methods and strategies. Must be knowledgeable of current industrial safety practices and industrial hygiene and of hazardous waste treatment, storage, and disposal operations. Essential competencies to perform this job include analytical, organizational and problem solving skills; must be detail oriented and possess technical aptitude. Ability to work under pressure, exercise independent judgment and select effective course of action while controlling resources and expenditures. Knowledge of Excel, Word, and PowerPoint applications is essential.

JOB LEVEL

	Operations Manager 1	Operations Manager 2
Pay Grade	TBD	TBD
Distinguishing Features	Incumbent works under general direction and work is guided project or sub-function objectives. Independently determines best methods for delivering objectives. Solves complex problems and seeks guidance for highly complex problems. Uses comprehensive knowledge of specialty to evaluate issues and define solutions. Provides advice and guidance to less experienced team members.	Incumbent works under broad direction and work is guided by functional objectives. Solves highly complex problems and resolves sensitive issues for a site. Leads multi-dimensional complex projects of critical importance. Decisions made impact the long-term finances of the business.
Education and Experience	Bachelor's degree in engineering, chemistry, biology or related fields, or an equivalent combination of education and experience. Knowledge of hazardous waste management typically gained through 5+ years of progressively responsible experience.	In addition to the Operations Manager 1. In addition 7+ years of progressively responsible experience in the hazardous waste management industry.

	Operations Manager 1	Operations Manager 2
Language	Skill communicating the implications and highlights of analytical work and key insights. Ability to effectively manage and communicate work delivery expectations with internal customers.	Skill to read, analyze, and interpret complex rules and regulations, financial data, professional journals and technical procedures. Skill writing reports, business correspondence, and procedure manuals. The incumbent is persuasive and highly effective at communicating takeaways, insights and recommended business direction.
Mathematical	Ability to work with mathematical concepts such proportions, basic algebra and geometry to apply to a variety of practical, variable and non-standard situations.	Same as Operations Manager 1.

CERTIFICATIONS, LICENSES, REGISTRATIONS

None required.

COMPLIANCE STATEMENT

The personal and physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

PERSONAL DEMANDS

While performing the duties of this job, the employee may work alone, work extended hours or special shifts, with frequent interruptions and repetitious operations. This work requires high concentration with a high level of stress. Occasional travel required. Employee shall at all times demonstrate cooperative behavior with colleagues, clients, customers and vendors.

PHYSICAL DEMANDS

A degree of mobility is required for the employee to perform the essential duties of this job; the employee is required to climb or balance; talk, hear and smell. Specific vision abilities required by this job include close vision, color vision, depth perception and the ability to adjust focus. Respirator may be required while working in the field.

WORK ENVIRONMENT

Work is performed in both office and field environments. While performing the duties of this job, the employee is regularly exposed to fumes or airborne particles, toxic or caustic chemicals, and risk of radiation. The noise level in this work environment is usually moderate.

jobs USE

Job Title:	Operations Supervisor Job Family	EEOC Job Group:	1.2
Department:	Operations	USE EEO Code:	003
FLSA Status:	Non-Exempt	USE Job Code:	SUPOPS1,2
Approved:	D. Church, June 2017		

ABOUT US ECOLOGY

US Ecology, Inc. is a leading North American provider of environmental services to commercial and government entities. The Company addresses the complex waste management needs of its customers by offering treatment, disposal and recycling of industrial, hazardous and radioactive waste, as well as a wide range of complementary field and industrial services. US Ecology's focus on safety, environmental compliance, and customer service, enables us to effectively meet the needs of our customers and to build long-lasting relationships. Headquartered in Boise, Idaho, with operations in the United States, Canada and Mexico, the Company has been protecting the environment since 1952.

JOB SUMMARY

The Operations Supervisor provides supervision for a specific work shift of all waste handling activities - including the sampling, analysis processing, documentation and disposition - which are received at or shipped from the facility. The Operations Supervisor also ensures plant and personnel safety by enforcing safety procedures and providing training as required by plant management.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Supervises the activities of operations personnel.
- Supervises inventory compliance and the maintenance of supplies.
- Coordinates with vendors, transporters, and treatment facilities.
- Provides for housekeeping of all waste handling/processing areas of the plant and ensures the proper storage and handling of process chemicals.
- Directs off-loading operations for receipt of materials into the facility's storage and waste processing systems.
- Ensures the safe, effective treatment of wastes by providing: collection and analysis of waste samples from inbound trucks, and the treatment simulation of truck samples.
- Makes decisions consistent with waste profile data and facility operating permits.
- Determines batch clearance approvals for filtering of effluent.
- Collects post-treatment samples wastes to determine suitability for ultimate disposition of bulk quantities of treated waste.
- Notifies appropriate facility personnel of any maintenance requirements for plant and transportation equipment.
- Reviews and signs RCRA manifests.
- Ensures that all personnel abide by all safety rules and procedures.
- Trains facility personnel relating to processing procedures.
- Participates directly in emergency response operations relating to activities conducted at the facility's site and transportation activities, both on and off-site, which involve the facility's equipment and personnel.

- Performs other, related duties as assigned. These are duties may not be specifically listed in this description, but which are within the general nature typically associated with the employee's level of work.

OUR COMMITMENT TO ENVIRONMENTAL COMPLIANCE

Employees are required to report any concerns associated with environmental compliance to their supervisor, General Manager or Environmental Manager. Employees are also required to complete training in hazardous waste management procedures, emergency response and other topics as outlined in the facility's training program and/or an individual training matrix.

HEALTH AND SAFETY DUTIES AND RESPONSIBILITIES

While performing this job, the employee is responsible for continuous adherence to the Company's Health & Safety (H&S) Program. This includes: the health and safety of themselves and their coworkers, completing tasks in a safe manner, attending safety meetings and mandatory H&S training, and reporting any unsafe conditions, acts or unanticipated hazards to their Supervisor, General Manager or Health and Safety Specialist. Duties and responsibilities are detailed in the H&S Program Master Document and will be provided by the H&S Specialist and/or the direct supervisor during new-hire orientation, training sessions or upon request.

SUPERVISORY RESPONSIBILITIES

This position is in a supervisory capacity.

SKILLS, KNOWLEDGE, AND ABILITIES (SKA)

Knowledge of personnel management, operations, equipment, waste processing and recycling techniques. Knowledge of receiving, purchasing, work orders, special licenses, and DOT training. Demonstrates, accuracy, thoroughness and attention to detail. Must be able to prioritize, stay focused and handle multiple, diverse responsibilities.

JOB LEVEL

	Operations Supervisor 1	Operations Supervisor 2
Pay Grade	TBD	TBD
Distinguishing Features	Incumbent works under minimal supervision, receives broad work instructions, and applies decision making skill to resolve moderately complex issues. Provides advice and guidance to less experienced team members.	Incumbent works under general direction, receives broad work instructions, and applies decision making skill to resolve complex issues. Incumbent independently determines methods and procedures on new assignments.
Education and Experience	Applies advanced knowledge of a single operations function, OR applies comprehensive knowledge of multiple operations functions typically gained through five or more years of progressively responsible experience.	In addition Operations Supervisor 1, expert knowledge of a single operations function, OR applies advanced knowledge of multiple operations functions typically gained through seven or more years of progressively responsible experience.
Language	Ability to read, analyze, and interpret technical procedures and or governmental regulations. Ability to write reports, correspondence and procedure manuals. Ability to	In addition to Operations Supervisor 1 ability to effectively manage and communicate work delivery expectations with internal customers.

	effectively present information and respond to questions from management, internal and external customers.	
Mathematical	Ability to add, subtract, multiply, and divide, using whole numbers, fractions, and decimals. Ability to apply basic geometric principles to calculate area, circumference, and volume. Ability to apply mathematical principles to practical situations.	Same as Operations Supervisor 1.

CERTIFICATIONS, LICENSES, AND REGISTRATIONS

A valid driver's license may be required for some positions.
A special license – such as CDL – or certificate may be required for some positions.

COMPLIANCE STATEMENT

The personal and physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job.

PERSONAL DEMANDS

While performing the duties of this job, the employee may work alone, travel, work extended hours or shift work, with frequent interruptions and repetitious operations. This work requires high concentration with a moderate level of stress. Employee shall at all times demonstrate cooperative behavior with colleagues, clients, customers and vendors.

PHYSICAL DEMANDS

While performing the duties of this job the employee is frequently required to stand, walk, stoop, reach, climb or balance, hear and smell. The employee is required to use hands to handle, feel, and grasp. The employee must occasionally move up to 50 pounds. The employee may need to work long hours on specific projects. There are frequent interruptions and repetitious motions. The employee may be in cramped or confined spaces for short periods of time. Specific vision abilities required by this job include close vision, color vision, depth perception and the ability to adjust focus. This position requires occasional customer, visitor, contractor, and vendor contact.

WORK ENVIRONMENT

While performing the duties of this job, the employee is frequently exposed to moving mechanical parts; high, precarious places; fumes or airborne particles; toxic or caustic chemicals; exposed to extreme heat, cold, wind, and dust conditions; risk of electrical shock; risk of radiation; and vibration. The noise level in the work environment is usually very loud.

jobs USE

Job Title:	Chemist Job Family	EEOC Job Group:	
Department:	Multiple	USE EEO Code:	
FLSA Status:	Non-Exempt & Exempt - Professional	USE Job Code:	CHEM1,2,3
Approved:	A. Marshall, July 2017		

ABOUT US ECOLOGY

US Ecology, Inc. is a leading North American provider of environmental services to commercial and government entities. The Company addresses the complex waste management needs of its customers by offering treatment, disposal and recycling of industrial, hazardous and radioactive waste, as well as a wide range of complementary field and industrial services. US Ecology's focus on safety, environmental compliance, and customer service, enables us to effectively meet the needs of our customers and to build long-lasting relationships. Headquartered in Boise, Idaho, with operations in the United States, Canada and Mexico, the Company has been protecting the environment since 1952.

SUMMARY

The Chemist performs chemical analyses of various types of hazardous and non-hazardous waste to determine compliant treatment and disposal, using a variety of analytical techniques and instruments.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Performs preparation techniques and instrumental analysis of environmental samples for the determination of organic and inorganic constituents using approved EPA test methods and US Ecology standard operating procedures and work instructions.
- Prepares samples for laboratory equipment.
- Utilizes and understands essential functions for instrument sequencing and data processing (performs basic instrument maintenance and repairs as needed, performs analytical standard preparations, and maintains all required documentation with accuracy and clarity).
- Validates methods for testing the content of organics, inorganics using a wide variety of processes and instrumentation.
- Performs initial and annual Demonstration of Capability.
- Maintains familiarity with quality control measures and calculations required for applicable methods.
- Identifies chemical content of materials and the proper method of isolation or neutralization.
- Provides technical knowledge to help develop formulas, enhance or create processes, and methods for solution of technical problems.
- Maintains a clean and safe work environment.
- Maintains familiarity with quality control measures and calculations required for applicable methods.
- Performs other, related duties as assigned. These are duties may not be specifically listed in this description, but which are within the general nature typically associated with the employee's level of work.

OUR COMMITMENT TO ENVIRONMENTAL COMPLIANCE

Employees are required to report any concerns associated with environmental compliance to their supervisor, General Manager or Environmental Manager. Employees are also required to complete training in hazardous waste management procedures, emergency response and other topics as outlined in the facility's training program and/or an individual training matrix.

HEALTH AND SAFETY DUTIES AND RESPONSIBILITIES

While performing this job, the employee is responsible for continuous adherence to the Company's Health & Safety Program. This includes: the health and safety of themselves and their coworkers, completing tasks in a safe manner, attending safety meetings and mandatory H&S training, and reporting any unsafe conditions, acts or unanticipated hazards to their Supervisor, General Manager or Health and Safety Specialist. Duties and responsibilities are detailed in the H&S Program Master Document and will be provided by the H&S Specialist and/or the direct supervisor during new-hire orientation, training sessions or upon request.

SUPERVISORY RESPONSIBILITIES

This position does not have supervisory responsibilities.

SKILLS/KNOWLEDGE/ABILITIES (SKA)

Knowledgeable of chemistry principles and practices including analysis and evaluation, and waste processing protocols. Required skills include performing proper analysis; presenting findings in a concise format; addressing difficult situations in a constructive manner; utilizing computer technology for communication, data gathering and reporting; negotiation and problem solving. Building a rapport with associates and managers; detail oriented, with a high level of accuracy and the ability to detect inconsistencies in data. Knowledge of Excel, Word, and PowerPoint applications is essential.

JOB LEVEL

	Chemist 1	Chemist 2	Chemist 3
FLSA Status	Non-Exempt	Exempt – Professional	Exempt – Professional
Distinguishing Features	Incumbent works under close supervision and receives detailed instructions. Work is guided by defined standards, policies and procedures. Solves straightforward problems and seeks guidance as needed.	Incumbent works under general supervision and receives broad instructions. Work is guided by project steps, work area or team objectives. Solves problems of limited complexity and consults others to resolve complex problems. Applies judgment in interpreting results and conducting analysis.	Incumbent works under general direction and work is guided project or sub-function objectives. Independently determines best methods for delivering objectives. Solves complex problems and seeks guidance for highly complex problems. Uses comprehensive knowledge of specialty to evaluate issues and define solutions. Provides advice and guidance to less experienced team members.

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	Chemist 1	Chemist 2	Chemist 3
Education and Experience	Bachelor's degree in Chemistry, Environmental Science or a related field; or 5 years combination of education and experience required. Knowledge of basic chemistry. Integrates knowledge of basic concepts, principles and theories.	In addition to a Chemist 1, knowledge of RCRA as it relates to waste characterization and waste processing protocols. Ability to identify trends and data patterns. Ability to coordinate and manage multiple projects. Ability to work within a team environment and handle multiple tasks simultaneously.	In addition to the Chemist 2, knowledge and understanding of RCRA, TSCA, and applicable state regulations, typically gained through five or more years of progressively responsible experience in waste disposal, chemistry, or a related field. Superior knowledge of the USE software package as it relates to waste streams and reporting.
Language	Applies basic communication skills to read, analyze, and interpret general scientific documentation, technical procedures, governmental regulations, and to respond effectively to inquiries.	In addition to the Chemist 1, ability to read, analyze, and interpret general scientific documentation, technical procedures, governmental regulations, and to respond effectively to sensitive inquiries. Ability to convey findings and communicate highlights of analysis work, and effectively present information in one-on-one and small group situations.	In addition to the Chemist 2, skill communicating the implications and highlights of highly specialized, technical and analytical work and key insights. Ability to effectively manage and communicate work delivery expectations with customers.
Mathematical	A good knowledge of basic scientific mathematics as it relates to processing of analytical data	In addition to Chemist 1, ability to review and understand laboratory analytical reports, and statistically evaluate the data	In addition to Chemist 2, ability to review and understand complex laboratory reports and to convert complex statistical results into customarily used reporting units of measure.

Certifications, licenses, registrations:
None required.

COMPLIANCE STATEMENT
The personal and physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

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PERSONAL DEMANDS

While performing the duties of this job, the employee may work alone and work extended hours with frequent interruptions while handling various non-standard situations. This work requires high concentration with a moderate level of stress. Ability and proficiency in the use of computers. Ability to comprehend the consequences of various problem situations to make sound decisions or to refer problems to appropriate people for decision-making. Employee shall at all times demonstrate cooperative behavior with co-workers, internal customers and suppliers. Occasional travel may be required. Frequent contacts include supervisor and co-workers, with regular contact with customers and visitors.

PHYSICAL DEMANDS

While performing the duties of this job, the employee is regularly required to stand, walk, stoop, kneel, and move up to 25 pounds for movement of supplies or containers. The employee is required to wear Personal Protective Equipment as necessary. Use hands to handle, or feel; reach with hands and arms; talk and hear. Specific vision abilities required by this job include close vision, and ability to adjust focus.

WORK ENVIRONMENT

The work is typically performed in indoor lab and office environments. While performing the duties of this job, the employee is frequently exposed to toxic or caustic chemicals, fumes or airborne particles. This is a mixed environment of laboratory and office work where the noise level is usually moderate.

job description

Job Title:	Field Chemist Job Family	EEOC Job Group:	
Department:		USE EEO Code:	
FLSA Status:	Non-Exempt & Exempt - Professional	USE Job Code:	CHEMFL1,2,3
Approved:	M. Sucher, February 2017		

SUMMARY

The Field Chemist facilitates Lab Pack Program, Household Hazardous Waste (HHW), and other field activities by providing field services for customers on their site, including the characterization, packaging, handling, and transportation of wastes. Incumbent maintains safety, meticulous attention to detail, profitability and efficiency.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Provides Lab Packing services at customer sites maintaining compliance with applicable regulations and with established company procedures.
- Samples and characterizes hazardous and non-hazardous waste.
- Generates waste profiles into end-user facility.
- Performs price quotes for customer.
- Provides customer with detailed inventory of waste on site.
- Transports wastes from customer sites to end user or transfer facility.
- Generates required internal paperwork in order to provide accurate and timely customer service and invoicing.
- Help to off load waste at end user facility
- De-packs and consolidates waste.
- Provides technical support.
- Performs other, related duties as assigned. These are duties may not be specifically listed in this description, but which are within the general nature typically associated with the employee's level of work.

OUR COMMITMENT TO ENVIRONMENTAL COMPLIANCE

Employees are required to report any concerns associated with environmental compliance to their supervisor, General Manager or Environmental Manager. Employees are also required to complete training in hazardous waste management procedures, emergency response and other topics as outlined in the facility's training program and/or an individual training matrix.

HEALTH AND SAFETY DUTIES AND RESPONSIBILITIES

While performing this job, the employee is responsible for continuous adherence to the Company's Health & Safety (H&S) Program. This includes: the health and safety of themselves and their coworkers, completing tasks in a safe manner, attending safety meetings and mandatory H&S training, and reporting any unsafe conditions, acts or unanticipated hazards to their Supervisor, General Manager or Health and Safety Specialist. Duties and responsibilities are detailed in the H&S Program Master Document and will be provided by the H&S Specialist and/or the direct supervisor during new-hire orientation, training sessions or upon request.

US Ecology is an Equal Opportunity/Affirmative Action Employer. We consider all qualified applicants without regard to race, religion, color, sex, national origin, age, sexual orientation, disability or veteran status, among other factors.

SUPERVISORY RESPONSIBILITIES

This position does not have supervisory responsibilities, but can act as a lead worker on site.

SKILLS/KNOWLEDGE/ABILITIES (SKA)

Knowledgeable of chemistry principles and practices including analysis and evaluation, and waste processing protocols. Required skills include performing proper analysis; presenting findings in a concise format; addressing difficult situations in a constructive manner; utilizing computer technology for communication, data gathering and reporting; negotiation and problem solving. Building a rapport with associates and managers; detail oriented, with a high level of accuracy and the ability to detect inconsistencies in data.

JOB LEVEL

	Field Chemist 1	Field Chemist 2	Field Chemist 3
FLSA Status	Non-Exempt	Exempt – Professional	Exempt – Professional
Distinguishing Features	Incumbent works under close supervision and receives detailed instructions. Work is guided by defined standards, policies and procedures. Solves straightforward problems and seeks guidance as needed.	Incumbent works under general supervision and receives broad instructions. Work is guided by project steps, work area or team objectives. Solves problems of limited complexity and consults others to resolve complex problems. Applies judgment in interpreting results and conducting analysis.	Incumbent works under general direction and work is guided project or sub-function objectives. Independently determines best methods for delivering objectives. Solves complex problems and seeks guidance for highly complex problems. Uses comprehensive knowledge of specialty to evaluate issues and define solutions. Provides advice and guidance to less experienced team members.
Education and Experience	Bachelor's degree in Chemistry, Environmental Science or a related field; or an equivalent combination of education and experience required. Knowledge of basic chemistry. Integrates knowledge of basic concepts, principles and theories.	In addition to a Field Chemist 1 Knowledge of RCRA as it relates to waste characterization and waste processing protocols, and familiarity with DOT regulations typically gained through two or more years of progressively responsible experience. Ability to identify trends and data patterns. Ability to coordinate and manage multiple projects. Ability to work within a team environment and handle multiple tasks simultaneously.	In addition to the Field Chemist 1. Knowledge and understanding of RCRA, DOT, TSCA, and applicable state regulations, typically gained through five or more years of progressively responsible experience in waste disposal, chemistry, or a related field. Superior knowledge of the USE software package as it relates to waste streams and reporting.

	Field Chemist 1	Field Chemist 2	Field Chemist 3
Language	Applies basic communication skills to read, analyze, and interpret general business documentation, technical procedures, governmental regulations, and to respond effectively to inquiries.	In addition to the Field Chemist 1. Ability to read, analyze, and interpret general business documentation, technical procedures, governmental regulations, and to respond effectively to sensitive inquiries. Ability to convey findings and communicate highlights of analysis work, and effectively present information in one-on-one and small group situations.	In addition to the Field Chemist 2. Skill communicating the implications and highlights of highly specialized, technical and analytical work and key insights. Ability to effectively manage and communicate work delivery expectations with customers.
Mathematical	Good knowledge of business math and basic accounting processes.	In addition to Field Chemist 1. Ability to review and understand general lab analytical reports	In addition to Field Chemist 2. Ability to review and understand complex laboratory reports and to convert complex statistical results into customarily used reporting units of measure.

Certifications, licenses, registrations:
See addendum.

COMPLIANCE STATEMENT
The personal and physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

PERSONAL DEMANDS
While performing the duties of this job, the employee may work alone and work extended hours with frequent interruptions while handling various non-standard situations. This work requires high concentration with a moderate level of stress. Ability and proficiency in the use of computers. Ability to comprehend the consequences of various problem situations to make sound decisions or to refer problems to appropriate people for decision-making. Employee shall at all times demonstrate cooperative behavior with co-workers, internal customers and suppliers. Occasional travel may be required. Frequent contacts include supervisor and co-workers, with regular contact with customers and visitors. The employee shall at all times demonstrate cooperative behavior with collegues, customers, and supervisors.

PHYSICAL DEMANDS
While performing the duties of this job, the employee is regularly required to stand, walk, stoop, kneel, and lift and/or move up to 50 pounds for movement of supplies or containers. The employee is required to wear Personal Protective Equipment as necessary. Use hands to handle, or feel; reach with hands and arms; talk and hear. Specific vision abilities required by this job include close vision, and ability to adjust focus.

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WORK ENVIRONMENT

The work is typically performed in diverse indoor and outdoor environments and will require the ability to enter into transport vehicles. While performing the duties of this job, the associate is regularly exposed to moving machinery, fumes or airborne particles, toxic or caustic chemicals, outside weather conditions, and vibration. The associate is frequently exposed to high, precarious places. The noise level in the work environment can be very loud.

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jobs USE

Job Title:	Lab Manager Job Family	EEOC Job Group:	
Department:	Operations	USE EEO Code:	
FLSA Status:	Exempt – Professional	USE Job Code:	MGRLAB1,2
Approved:	P. Canevaro, July 2017		

ABOUT US ECOLOGY

US Ecology, Inc. is a leading North American provider of environmental services to commercial and government entities. The Company addresses the complex waste management needs of its customers by offering treatment, disposal and recycling of industrial, hazardous and radioactive waste, as well as a wide range of complementary field and industrial services. US Ecology's focus on safety, environmental compliance, and customer service, enables us to effectively meet the needs of our customers and to build long-lasting relationships. Headquartered in Boise, Idaho, with operations in the United States, Canada and Mexico, the Company has been protecting the environment since 1952.

SUMMARY

Manages laboratory resources to ensure safe, regulatory compliance and expeditious processing of technical information and analysis in support of site objectives. Supervises and coordinates activities of personnel engaged in performing chemical and physical tests required for quality control of processes and regulatory compliance.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Manages, maintains, and ensures compliance with all applicable Quality Assurance / Quality Control (QA/QC) protocols. This includes corporate, accreditation, and method requirements.
- Manages and ensures that the operations of the laboratory are accomplished within budget and to company, regulatory and industry standards
- Manages laboratory safety program to ensure compliance with OSHA and company policies.
- Manages programs efficiently to process routine waste acceptance information in compliance with WAP (Waste Analysis Plan) and good safety practices.
- Manages laboratory efforts related to waste pre-acceptance reviews, treatability studies, and related activities in compliance with all regulatory requirements.
- Manage laboratory to ensure procedures and practices are compliant with company policy and all local, state, and federal laws.
- Provides technical support to management and subordinates.
- Makes and implements recommendations for improvement in workflow.
- Forecast and control department resources.
- Maintains accreditation to certification bodies, when applicable.
- Maintains compliance with the corporate laboratory policies, training requirements, and audit program.
- Performs other, related duties as assigned. These are duties may not be specifically listed in this description, but which are within the general nature typically associated with the employee's level of work.

OUR COMMITMENT TO ENVIRONMENTAL COMPLIANCE

Employees are required to report any concerns associated with environmental compliance to their supervisor, General Manager or Environmental Manager. Employees are also required to complete training in hazardous waste management procedures, emergency response and other topics as outlined in the facility's training program and/or an individual training matrix.

HEALTH AND SAFETY DUTIES AND RESPONSIBILITIES

While performing this job, the employee is responsible for continuous adherence to the Company's Health & Safety Program. This includes: the health and safety of themselves and their coworkers, completing tasks in a safe manner, attending safety meetings and mandatory H&S training, and reporting any unsafe conditions, acts or unanticipated hazards to their Supervisor, General Manager or Health and Safety Specialist. Duties and responsibilities are detailed in the H&S Program Master Document and will be provided by the H&S Specialist and/or the direct supervisor during new-hire orientation, training sessions or upon request.

SUPERVISORY RESPONSIBILITIES

Carries out supervisory responsibilities in accordance with the organization's policies and applicable laws. Responsibilities include interviewing, hiring, and training employees; planning, assigning, and directing work; appraising performance; rewarding and disciplining employees; addressing complaints and resolving problems.

SKILLS/KNOWLEDGE/ABILITIES (SKA)

Knowledgeable of chemistry principles and practices including analysis and evaluation, and waste processing protocols. Employee must have thorough knowledge of quality management standards, including ISO and NELAC standards, in addition to complex regulations specific to the environmental waste industry, management principles and best practices, including; analysis, evaluation, research methods and strategies. Must be knowledgeable of current industrial safety practices, ~~and~~ industrial hygiene, and of hazardous waste treatment, storage, and disposal operations. Essential competencies to perform this job include analytical, organizational, and problem solving skills. Must be detail oriented and possess technical aptitude. Ability to work under pressure, exercise independent judgment, and select effective course of action while controlling resources and expenditures. Knowledge of Excel, Word, and PowerPoint applications is essential.

JOB LEVEL

	Laboratory Manager 1	**Laboratory Manager 2**
Pay Grade	TBD	TBD
Distinguishing Features	Incumbent works under general direction and work is guided project or sub-function objectives. Independently determines best methods for delivering objectives. Solves complex problems and seeks guidance for highly complex problems. Uses comprehensive knowledge of specialty to evaluate issues and define solutions. Provides advice and guidance to less experienced team members.	Incumbent works under broad direction and work is guided by functional objectives. Solves highly complex problems and resolves sensitive issues for a site. Leads multi-dimensional complex projects of critical importance. Decisions made impact the long-term finances of the business.

	Laboratory Manager 1	Laboratory Manager 2
Education and Experience	Bachelor's degree in engineering, chemistry, environmental science, biology or a related field and 5+ years of progressively responsible experience in waste disposal and chemistry; or 10 years of combined education and experience. Knowledge and understanding of RCRA, TSCA, and applicable state regulations. Superior knowledge of the USE software package as it relates to waste streams and reporting.	Bachelor's degree in engineering, chemistry, environmental science, biology or a related field and 5+ years of progressively responsible experience in waste disposal and chemistry; or 10 years of combined education and experience. Knowledge and understanding of RCRA, TSCA, and applicable state regulations. Superior knowledge of the USE software package as it relates to waste streams and reporting.
Language	Skill communicating the implications and highlights of analytical work and key insights. Ability to effectively manage and communicate work delivery expectations with internal customers. Skill writing reports, business correspondence, and procedure manuals.	In addition to Lab Manager 1, skill to read, analyze, and interpret complex rules and regulations, financial data, professional journals and technical procedures. The incumbent is persuasive and highly effective at communicating takeaways, insights and recommended business direction.
Mathematical	Ability to work with mathematical concepts such proportions, basic algebra and geometry to apply to a variety of practical, variable and non-standard situations.	Same as Lab Manager 1.

Certifications, licenses, registrations:
None required.

COMPLIANCE STATEMENT
The personal and physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

PERSONAL DEMANDS
While performing the duties of this job, the employee may work alone, work extended hours or special shifts, with frequent interruptions and repetitious operations. This work requires high concentration under time constraints. Occasional travel required.

PHYSICAL DEMANDS
While performing the duties of this job, the employee is regularly required to stand, walk, stoop, kneel, climb or balance, and move up to 25 pounds for movement of supplies or containers. The employee is required to wear Personal Protective Equipment as necessary. Use hands to handle, or feel; reach with hands and arms; talk and hear. Specific vision abilities required by this job include close vision, color vision, depth perception and ability to adjust focus.

US Ecology is an Equal Opportunity/Affirmative Action Employer. We consider all qualified applicants without regard to race, religion, color, sex, national origin, age, sexual orientation, disability or veteran status, among other factors.

WORK ENVIRONMENT

The work is typically performed in indoor lab and office environments. While performing the duties of this job, the employee is frequently exposed to toxic or caustic chemicals, fumes or airborne particles. This is a mixed environment of laboratory and office work where the noise level is usually moderate.

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job description

Job Title:	Administrative Assistant Job Family	EEOC Job Group:	
Department:	Administration	USE EEO Code:	
FLSA Status:	Non-Exempt	USE Job Code:	ASTAD1,2,3
Approved:	M. Sucher, February 2017		

ABOUT US ECOLOGY

US Ecology, Inc. is a leading North American provider of environmental services to commercial and government entities. The Company addresses the complex waste management needs of its customers by offering treatment, disposal and recycling of industrial, hazardous and radioactive waste, as well as a wide range of complementary field and industrial services. US Ecology's focus on safety, environmental compliance, and customer service, enables us to effectively meet the needs of our customers and to build long-lasting relationships. Headquartered in Boise, Idaho, with operations in the United States, Canada and Mexico, the Company has been protecting the environment since 1952.

SUMMARY

The Administrative Assistant performs general administrative and clerical support activities in order to ensure efficient operation of the office.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Prepares, reconciles, and reviews accounts and expense reports for accuracy and compliance.
- Prepares and formats reports.
- Coordinates email and electronic calendars.
- Coordinates travel.
- Collects and enters data.
- Orders office supplies and manages inventory.
- Plans and coordinates events.
- Performs records administration.
- Sorts mail and prepares shipments.
- Answers and directs phone calls.
- Runs company errands.
- Performs other, related duties as assigned. These are duties may not be specifically listed in this description, but which are within the general nature typically associated with the employee's level of work.

OUR COMMITMENT TO ENVIRONMENTAL COMPLIANCE

Employees are required to report any concerns associated with environmental compliance to their supervisor, General Manager or Environmental Manager. Employees are also required to complete training in hazardous waste management procedures, emergency response and other topics as outlined in the facility's training program and/or an individual training matrix.

HEALTH AND SAFETY DUTIES AND RESPONSIBILITIES

While performing this job, the employee is responsible for continuous adherence to the Company's Health & Safety Program. This includes: the health and safety of themselves and their coworkers, completing tasks in a safe manner, attending safety meetings and mandatory H&S training, and reporting any unsafe conditions, acts or unanticipated hazards to their Supervisor, General Manager or Health and Safety Specialist. Duties and responsibilities are detailed in the H&S Program Master Document and will be provided by the H&S Specialist and/or the direct supervisor during new-hire orientation, training sessions or upon request.

SUPERVISORY RESPONSIBILITIES

This position does not have any supervisory responsibilities.

SKILLS/KNOWLEDGE/ABILITIES (SKA)

General software skills, research abilities, flexibility, attention to detail, organization and strong communication skills are required.

JOB LEVEL

	Administrative Assistant 1 Non-Exempt-Admin	**Administrative Assistant 2** Non-Exempt-Admin	**Administrative Assistant 3** Non-Exempt-Admin
Distinguishing Features	Relies on instructions and pre-established guidelines to perform the functions of the job. Works under immediate supervision. Typically reports to a supervisor or manager.	Familiar with standard concepts, practices, and procedures within a particular field. Relies on experience and judgment to plan and accomplish goals. Performs a variety of tasks. Works under general supervision. A certain degree of creativity and latitude is required. Typically reports to a supervisor or manager.	Understands and can follow complex administrative procedures and support systems, based on work experience in the organization or elsewhere. Knows and understands context of the office, and how it interrelates within the organization. Can operate within major administrative or information systems fluently, based on full understanding of them. Capable of operating without reference to others in preparing documentation, and operating relevant technology. Typically reports to a supervisor or manager. May coach less-experienced colleagues.

	Administrative Assistant 1 Non-Exempt-Admin	**Administrative Assistant 2** Non-Exempt-Admin	**Administrative Assistant 3** Non-Exempt-Admin
Education and Experience	Requires a high school diploma with 0-2 years of experience in the field or in a related area. Has knowledge of commonly used concepts, practices, and procedures within a particular field.	Requires a high school diploma with 2-4 years of experience in the field or in a related area. Familiar with standard concepts, practices, and procedures within a particular field.	Requires a high school diploma with at least 5 years of experience in the field or in a related area. Familiar with a variety of concepts, practices, and procedures within a particular field.
Language	Ability to read and interpret simple documents. Ability to write simple correspondence. Ability to effectively present information in one-on-one and small group situations to customers, clients, and other employees of the organization.	In addition to the Administrative Assistant 1, ability to write routine reports and correspondence, and to speak effectively before groups of customers or employees of organization.	In addition to the Administrative Assistant 2, as a key communications point, generally answers enquiries & handles issues from initial contact to resolution.
Mathematical	Ability to add, subtract, multiply, and divide, using whole numbers, fractions, and decimals. Ability to compute ratios, and create and interpret graphs.	Same as Administrative Assistant 1	Same as Administrative Assistant 1

Certifications, licenses, registrations:
None required.

COMPLIANCE STATEMENT

The personal and physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

PERSONAL DEMANDS

While performing the duties of this job, the employee may work alone and work extended hours with frequent interruptions while handling various non-standard situations. This work requires high concentration with a moderate level of stress. Ability and proficiency in the use of computers. Ability to comprehend the consequences of various problem situations to make sound decisions or to refer problems to appropriate people for decision-making. Employee shall at all times demonstrate cooperative behavior with co-workers, internal customers and suppliers. Occasional travel may be required. Frequent contacts include supervisor and co-workers, with regular contact with customers and visitors. The employee shall at all times demonstrate cooperative behavior with collegues, customers, and supervisors.

PHYSICAL DEMANDS

While performing the duties of this job, the employee is regularly required to sit; use hands for data entry, handle, or feel; reach with hands and arms; talk and hear. Occasional lifting, bending, stooping, or sitting in a confined position. Specific vision abilities required by this job include close vision, and ability to adjust focus.

WORK ENVIRONMENT

General office environment: The noise level in this work environment is usually quiet, but fast pace work.

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jobs USE

Job Title:	Regulatory Coordinator Job Family	EEOC Job Group:	
Department:	Operations	USE EEO Code:	
FLSA Status:	Non-Exempt	USE Job Code:	CORREG1,2,3
Approved:	Andy Marshall, August 2017		

ABOUT US ECOLOGY

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JOB SUMMARY

The Regulatory Coordinator provides administrative support with regulatory compliance matters.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Collects and enters data.
- Performs records administration.
- Maintains compliance documentation and electronic filing system for regulatory records.
- Researches regulatory topics and assists with monthly reporting and training.
- Assists in the preparation and format of regulatory reports.
- Assists with regulatory inspections
- Schedules physicals, random drug screens, and prepares proper paperwork.
- Tracks and reports on incidents and monthly metrics.
- Performs other, related duties as assigned. These duties may not be specifically listed in this description, but which are within the general nature typically associated with the employee's level of work

OUR COMMITMENT TO ENVIRONMENTAL COMPLIANCE

Employees are required to report any concerns associated with environmental compliance to their supervisor, General Manager or Environmental Manager. Employees are also required to complete training in hazardous waste management procedures, emergency response and other topics as outlined in the facility's training program and/or an individual training matrix.

HEALTH AND SAFETY DUTIES AND RESPONSIBILITIES

While performing this job, the employee is responsible for continuous adherence to the Company's Health & Safety (H&S) Program. This includes: the health and safety of themselves and their coworkers, completing tasks in a safe manner, attending safety meetings and mandatory H&S training, and reporting any unsafe conditions, acts or unanticipated hazards to their Supervisor, General Manager or Health and Safety Specialist.

Duties and responsibilities are detailed in the H&S Program Master Document and will be provided by the H&S Specialist and/or the direct supervisor during new-hire orientation, training sessions or upon request.

SUPERVISORY RESPONSIBILITIES
This position does not have any supervisory responsibilities.

SKILLS, KNOWLEDGE, AND ABILITIES (SKA)
General software skills, research abilities, flexibility, attention to detail, organization and strong communication skills are required. General knowledge of environmental laws and regulations and research methods.

JOB LEVEL

	Regulatory Coordinator 1	Regulatory Coordinator 2	Regulatory Coordinator 3
Pay Grade	TBD	TBD	TBD
Distinguishing Features	Relies on instructions and pre-established guidelines to perform the functions of the job. Works under immediate supervision. Typically reports to a supervisor or manager.	Familiar with standard concepts, practices, and procedures within a particular field. Relies on experience and judgment to plan and accomplish goals. Performs a variety of tasks. Works under general supervision. A certain degree of creativity and latitude is required. Typically reports to a supervisor or manager.	Understands and can follow complex administrative procedures and support systems, based on work experience in the organization or elsewhere. Knows and understands context of the function, and how it functions within the organization. Can operate within major administrative or information systems fluently, based on full understanding of them. Capable of operating without reference to others in preparing documentation, and operating relevant technology. May coach less-experienced colleagues.
Education and Experience	Requires a high school diploma with 0-2 years of experience in the field or in a related area. Has knowledge of commonly used concepts, practices, and procedures within a particular field.	In addition to the Regulatory Coordinator 1, 2-4 years of experience in the field or in a related area. Familiar with standard concepts, practices, and procedures within a particular field.	In addition to the Regulatory Coordinator 2, familiarity with a variety of concepts, practices, and procedures within EHS typically gained through 5 or more years of progressively responsible experience.
Language	Ability to read and interpret operating, maintenance, regulatory, and procedure manuals.	In addition to the Regulatory Coordinator 1, ability to write routine reports and correspondence, and to speak effectively before groups of customers or employees of organization.	In addition to EHS Coordinator 2, ability to read, analyze, and interpret technical procedures and governmental regulations. Acts a key communications point, generally answers enquiries and handles issues from initial contact to resolution.

Mathematical	Ability to add, subtract, multiply, and divide, using whole numbers, fractions, and decimals.	In addition to Regulatory Coordinator 1, ability to apply basic geometric principles to calculate area, circumference, and volume. Ability to apply mathematical principles to practical situations.	Same as EHS Coordinator 2.

CERTIFICATIONS, LICENSES, AND REGISTRATIONS

None required.

COMPLIANCE STATEMENT

The personal and physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job.

PERSONAL DEMANDS

While performing the duties of this job, the employee may work alone and work extended hours with frequent interruptions while handling various non-standard situations. This work requires high concentration with a moderate level of stress. Ability and proficiency in the use of computers. Ability to comprehend the consequences of various problem situations to make sound decisions or to refer problems to appropriate people for decision-making. Employee shall at all times demonstrate cooperative behavior with co-workers, internal customers and suppliers. Occasional travel may be required. Frequent contacts include supervisor and co-workers, with regular contact with customers and visitors. The employee shall at all times demonstrate cooperative behavior with collegues, customers, and supervisors.

PHYSICAL DEMANDS

While performing the duties of this job, the employee is regularly required to sit; use hands for data entry, handle, or feel; reach with hands and arms; talk and hear. Occasional lifting, bending, stooping, or sitting in a confined position. Specific vision abilities required by this job include close vision, and ability to adjust focus

WORK ENVIRONMENT

General office environment: The noise level in this work environment is usually quiet, but fast pace work.

jobs USE

Job Title:	Regulatory Coordinator Job Family	EEOC Job Group:	
Department:	Operations	USE EEO Code:	
FLSA Status:	Non-Exempt	USE Job Code:	CORREG1,2,3
Approved:	Andy Marshall, August 2017		

ABOUT US ECOLOGY

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JOB SUMMARY

The Regulatory Coordinator provides administrative support with regulatory compliance matters.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Collects and enters data.
- Performs records administration.
- Maintains compliance documentation and electronic filing system for regulatory records.
- Researches regulatory topics and assists with monthly reporting and training.
- Assists in the preparation and format of regulatory reports.
- Assists with regulatory inspections
- Schedules physicals, random drug screens, and prepares proper paperwork.
- Tracks and reports on incidents and monthly metrics.
- Performs other, related duties as assigned. These duties may not be specifically listed in this description, but which are within the general nature typically associated with the employee's level of work

OUR COMMITMENT TO ENVIRONMENTAL COMPLIANCE

Employees are required to report any concerns associated with environmental compliance to their supervisor, General Manager or Environmental Manager. Employees are also required to complete training in hazardous waste management procedures, emergency response and other topics as outlined in the facility's training program and/or an individual training matrix.

HEALTH AND SAFETY DUTIES AND RESPONSIBILITIES

While performing this job, the employee is responsible for continuous adherence to the Company's Health & Safety (H&S) Program. This includes: the health and safety of themselves and their coworkers, completing tasks in a safe manner, attending safety meetings and mandatory H&S training, and reporting any unsafe conditions, acts or unanticipated hazards to their Supervisor, General Manager or Health and Safety Specialist.

Duties and responsibilities are detailed in the H&S Program Master Document and will be provided by the H&S Specialist and/or the direct supervisor during new-hire orientation, training sessions or upon request.

SUPERVISORY RESPONSIBILITIES
This position does not have any supervisory responsibilities.

SKILLS, KNOWLEDGE, AND ABILITIES (SKA)
General software skills, research abilities, flexibility, attention to detail, organization and strong communication skills are required. General knowledge of environmental laws and regulations and research methods.

JOB LEVEL

	Regulatory Coordinator 1	Regulatory Coordinator 2	Regulatory Coordinator 3
Pay Grade	TBD	TBD	TBD
Distinguishing Features	Relies on instructions and pre-established guidelines to perform the functions of the job. Works under immediate supervision. Typically reports to a supervisor or manager.	Familiar with standard concepts, practices, and procedures within a particular field. Relies on experience and judgment to plan and accomplish goals. Performs a variety of tasks. Works under general supervision. A certain degree of creativity and latitude is required. Typically reports to a supervisor or manager.	Understands and can follow complex administrative procedures and support systems, based on work experience in the organization or elsewhere. Knows and understands context of the function, and how it functions within the organization. Can operate within major administrative or information systems fluently, based on full understanding of them. Capable of operating without reference to others in preparing documentation, and operating relevant technology. May coach less-experienced colleagues.
Education and Experience	Requires a high school diploma with 0-2 years of experience in the field or in a related area. Has knowledge of commonly used concepts, practices, and procedures within a particular field.	In addition to the Regulatory Coordinator 1, 2-4 years of experience in the field or in a related area. Familiar with standard concepts, practices, and procedures within a particular field.	In addition to the Regulatory Coordinator 2, familiarity with a variety of concepts, practices, and procedures within EHS typically gained through 5 or more years of progressively responsible experience.
Language	Ability to read and interpret operating, maintenance, regulatory, and procedure manuals.	In addition to the Regulatory Coordinator 1, ability to write routine reports and correspondence, and to speak effectively before groups of customers or employees of organization.	In addition to EHS Coordinator 2, ability to read, analyze, and interpret technical procedures and governmental regulations. Acts a key communications point, generally answers enquiries and handles issues from initial contact to resolution.

Mathematical	Ability to add, subtract, multiply, and divide, using whole numbers, fractions, and decimals.	In addition to Regulatory Coordinator 1, ability to apply basic geometric principles to calculate area, circumference, and volume. Ability to apply mathematical principles to practical situations.	Same as EHS Coordinator 2.

CERTIFICATIONS, LICENSES, AND REGISTRATIONS

None required.

COMPLIANCE STATEMENT

The personal and physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job.

PERSONAL DEMANDS

While performing the duties of this job, the employee may work alone and work extended hours with frequent interruptions while handling various non-standard situations. This work requires high concentration with a moderate level of stress. Ability and proficiency in the use of computers. Ability to comprehend the consequences of various problem situations to make sound decisions or to refer problems to appropriate people for decision-making. Employee shall at all times demonstrate cooperative behavior with co-workers, internal customers and suppliers. Occasional travel may be required. Frequent contacts include supervisor and co-workers, with regular contact with customers and visitors. The employee shall at all times demonstrate cooperative behavior with collegues, customers, and supervisors.

PHYSICAL DEMANDS

While performing the duties of this job, the employee is regularly required to sit; use hands for data entry, handle, or feel; reach with hands and arms; talk and hear. Occasional lifting, bending, stooping, or sitting in a confined position. Specific vision abilities required by this job include close vision, and ability to adjust focus

WORK ENVIRONMENT

General office environment: The noise level in this work environment is usually quiet, but fast pace work.

job description

Job Title:	Approvals Coordinator Job Family	EEOC Job Group:	
Department:	Environmental Health & Safety	USE EEO Code:	
FLSA Status:	Exempt – Admin	USE Job Code:	CORAPP1,2,3
Approved:	M. Sucher, February 2017		

SUMMARY

The Approvals Coordinator independently certifies that the company receives and processes waste in a safe and compliant manner. Reviews waste profiles and documentation to ensure the safety of associates and compliance with all permits and regulations, while maximizing profitability.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Review paperwork and/or samples for completeness, safety with respect to treatment/disposal, and compliance with all applicable regulations/permits.
- Identifies potential waste stream problems and directs such waste streams to the proper department.
- Assists customers in the proper completion of waste profiles and works with customers to achieve proper completion in a timely manner.
- Review waste recertification to ensure continued compliance with applicable regulations and permits.
- Coordinates with Materials Management or Total Waste Solutions groups to arrange third party vendor shipments to alternate Treatment, Storage and Disposal Facilities (TSDFs).
- Acts as a liaison between the operations and sales departments.
- Provides technical support.
- Performs other, related duties as assigned. These are duties may not be specifically listed in this description, but which are within the general nature typically associated with the employee's level of work.

OUR COMMITMENT TO ENVIRONMENTAL COMPLIANCE

Employees are required to report any concerns associated with environmental compliance to their supervisor, General Manager or Environmental Manager. Employees are also required to complete training in hazardous waste management procedures, emergency response and other topics as outlined in the facility's training program and/or an individual training matrix.

HEALTH AND SAFETY DUTIES AND RESPONSIBILITIES

While performing this job, the employee is responsible for continuous adherence to the Company's Health & Safety Program. This includes: the health and safety of themselves and their coworkers, completing tasks in a safe manner, attending safety meetings and mandatory H&S training, and reporting any unsafe conditions, acts or unanticipated hazards to their Supervisor, General Manager or Health and Safety Specialist. Duties and responsibilities are detailed in the H&S Program Master Document and will be provided by the H&S Specialist and/or the direct supervisor during new-hire orientation, training sessions or upon request.

SUPERVISORY RESPONSIBILITIES

This position does not have any supervisory responsibilities.

SKILLS/KNOWLEDGE/ABILITIES (SKA)

Knowledgeable of waste characterization principles and practices including analysis and evaluation, and waste processing protocols. Required skills include requesting proper analysis, if required; presenting findings in a concise format; addressing difficult situations in a constructive manner; utilizing computer technology for communication, data gathering and reporting; negotiation and problem solving. Building a rapport with associates and managers; detail oriented, with a high level of accuracy and the ability to detect inconsistencies in data. Knowledge of Excel, Word, and PowerPoint applications is essential.

JOB LEVEL

	Approvals Coordinator 1	Approvals Coordinator 2	Approvals Coordinator 3
Pay Grade	TBD	TBD	TBD
Distinguishing Features	Incumbent works under general supervision and receives broad instructions. Work is guided by project steps, work area or team objectives. Solves problems of limited complexity and consults others to resolve complex problems. Applies judgment in interpreting results and conducting analysis.	Incumbent works under general direction and work is guided project or sub-function objectives. Independently determines best methods for delivering objectives. Solves complex problems and seeks guidance for highly complex problems. Uses comprehensive knowledge of specialty to evaluate issues and define solutions. Provides advice and guidance to less experienced team members.	Incumbent works under broad direction and work is guided by program and multiple project objectives. Mentors, trains and second signs for Approval Coordinator 1 Acts as a subject matter expert within specialty. Has latitude for decision making. Solves highly complex problems, helps to define new standards, leads cross-functional project teams, and oversees changes to and implementation of programs or projects.

	Approvals Coordinator 1	Approvals Coordinator 2	Approvals Coordinator 3
Education and Experience	Bachelor's degree in Chemistry, Environmental Science or a related field; or an equivalent combination of education and experience required. Knowledge of RCRA as it relates to waste characterization and waste processing protocols. Familiarity with DOT regulations. Knowledge of the MS Office Suite. Ability to identify trends and data patterns. Ability to coordinate and manage multiple projects. Ability to work within a team environment and handle multiple tasks simultaneously.	In addition to the Approvals Coordinator 1: Knowledge and understanding of RCRA, DOT, TSCA, and applicable state regulations, typically gained through two or more years of progressively responsible experience in waste disposal, chemistry, or a related field. Superior knowledge of the USE software package as it relates to waste streams and reporting. Thorough understanding of treatment capabilities of 3rd party vendors and how to properly direct applicable waste streams.	In addition to the Approvals Coordinator 2. Knowledge and general understanding of radiological wastes typically gained through seven or more years of progressively responsible experience in waste disposal, chemistry, or a related field. Has the ability to lead projects across the company and manage them to drive meaningful business action and change; ultimately generating bottom line improvement for the company. Skilled at performing root cause analysis.
Language	Ability to read, analyze, and interpret general business documentation, technical procedures, governmental regulations, and to respond effectively to sensitive inquiries. Ability to convey findings and communicate highlights of analysis work, and effectively present information in one-on-one and small group situations.	In addition to the Approvals Coordinator 1. Skill communicating the implications and highlights of highly specialized, technical and analytical work and key insights. Ability to effectively manage and communicate work delivery expectations with customers.	In addition to the Approvals Coordinator 2. The incumbent is persuasive and highly effective at communicating takeaways, insights and recommended business direction based on analysis.
Mathematical	Good knowledge of business math and basic accounting processes. General knowledge of statistical analysis theory and methods and ability to perform secondary research. Ability to review and understand general lab analytical reports	In addition to Approvals Coordinator 1. Ability to review and understand complex laboratory reports and to convert complex statistical results into customarily used reporting units of measure.	Same as Approvals Coordinator 2.

Certifications, licenses, registrations:
None required.

US Ecology is an Equal Opportunity/Affirmative Action Employer. We consider all qualified applicants without regard to race, religion, color, sex, national origin, age, sexual orientation, disability or veteran status, among other factors.

COMPLIANCE STATEMENT

The personal and physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

PERSONAL DEMANDS

While performing the duties of this job, the employee may work alone and work extended hours with frequent interruptions while handling various non-standard situations. This work requires high concentration with a moderate level of stress. Ability and proficiency in the use of computers. Ability to comprehend the consequences of various problem situations to make sound decisions or to refer problems to appropriate people for decision-making. Employee shall at all times demonstrate cooperative behavior with co-workers, internal customers and suppliers. Occasional travel may be required. Frequent contacts include supervisor and co-workers, with regular contact with customers and visitors. The employee shall at all times demonstrate cooperative behavior with collegues, customers, and supervisors.

PHYSICAL DEMANDS

While performing the duties of this job, the employee is regularly required to sit; use hands for data entry, handle, or feel; reach with hands and arms; talk and hear. Occasional lifting, bending, stooping, or sitting in a confined position. Specific vision abilities required by this job include close vision, and ability to adjust focus.

WORK ENVIRONMENT

General office environment: The noise level in this work environment is usually quiet, but fast pace work.

jobs USE

Job Title:	Director of Operations	EEOC Job Group:	1.1 – Officials and Managers
Department:	Operations	USE EEO Code:	002
FLSA Status:	Exempt – Exec	USE Job Code:	DIROP
Approved:	B. Marchand 05/17		

ABOUT US ECOLOGY

US Ecology, Inc. is a leading North American provider of environmental services to commercial and government entities. The Company addresses the complex waste management needs of its customers by offering treatment, disposal and recycling of industrial, hazardous and radioactive waste, as well as a wide range of complementary field and industrial services. US Ecology's focus on safety, environmental compliance, and customer service, enables us to effectively meet the needs of our customers and to build long-lasting relationships. Headquartered in Boise, Idaho, with operations in the United States, Canada and Mexico, the Company has been protecting the environment since 1952.

SUMMARY

The Director of Operations plans and directs all aspects of business and operations at multiple business units to ensure all operations are conducted in a safe, compliant and efficient manner consistent with the Company's established objectives, policies and procedures. The incumbent is responsible for profit and loss of the business units and reporting of business performance. Ensures all projects, initiatives, and processes are in compliance with federal, state and local regulations. Manages resources to accomplish identified priorities, and performs the following duties personally or through subordinate managers and supervisors.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Directs all activities of business units including day to day operations, environmental compliance, worker safety, customer service, laboratory services, maintenance programs, transportation, logistics, waste collection, human resources matters and other functions as applicable.
- Develops and manages operating and capital expenditure budgets and reports.
- Develops new business within territories.
- Develops and monitors applicable metrics to measure operational and business objectives.
- Develops and recommends business plans as needed to achieve revenue and growth objectives.
- Directs and analyzes organic growth initiatives including site technology improvements or development of new business lines or capabilities working with senior management, sales and other company resources to identify and evaluate growth strategies.
- Evaluates operations to control costs and maintain competitive position.
- Directs and coordinates organizational activities to obtain optimum efficiency.
- Ensures protection of Company assets through ongoing maintenance of facility infrastructure.
- Ensures all operations are conducted in compliance with applicable federal, state, and local regulations.
- Manages regulatory affairs activities with government regulatory agencies and participates in community outreach, political affairs, and public relations activities.

- Coordinates the scheduling and review of internal and external environmental audits in coordination with the USE audit team.
- Provides direction, support and oversight of activities to renew, amend, modify or expand existing licenses or permits consistent with adopted business plans.
- Oversees implementation of company policies and procedures.
- Ensures operations are properly staffed and personnel are properly trained.
- Leads and manages operations in order to meet customer expectations for quality and service.
- Manages vendors and contractor selection process and contracted activities including landfill construction needs and other infrastructure requirements.
- Performs other, related duties as assigned. These are duties may not be specifically listed in this description, but which are within the general nature typically associated with the employee's level of work.

OUR COMMITMENT TO ENVIRONMENTAL COMPLIANCE

Employees are required to report any concerns associated with environmental compliance to the Executive Vice President of Regulatory Compliance and Safety. General Managers are also required to complete training in hazardous waste management procedures, emergency response and other topics as outlined in the facility's training program and an individual training matrix.

HEALTH AND SAFETY DUTIES AND RESPONSIBILITIES

While performing this job, the employee is responsible for continuous enforcement of and adherence to the Company's Health & Safety Program. Responsibilities include reporting all incidents to the Executive Vice President of Regulatory Compliance and Safety and OSHA VPP, H&S training; prompt corrective action to reported health & safety hazards and unsafe conditions. Duties and responsibilities are detailed in the Health & Safety Program Master Document.

SUPERVISORY RESPONSIBILITIES

These are duties which may not be specifically listed in the class specification or position description, but which are within the general occupational series and responsibility level typically associated with the associate's class of work.

SKILLS, KNOWLEDGE AND ABILITIES (SKA)

To perform the duties of this job, the employee must have extensive knowledge of complex regulations specific to the environmental waste industry management principles and best practices including analysis and evaluation; research methods and strategies. Must be knowledgeable of current industrial safety practices and industrial hygiene measures and of hazardous waste treatment, storage, and disposal operations. Essential competencies to perform this job include analytical, organizational and problem solving skills; must be detail oriented and possess technical aptitude. Ability to work under pressure, exercise independent judgment and select effective course of action while controlling resources and expenditures. Knowledge of Excel, Word, and PowerPoint applications is essential.

JOB LEVEL

	Director of Operations
Pay Grade	TBD Incumbent position in pay grade will be determined using several factors which may include:

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	Director of Operations
	Number of employees, complexity of facility or business line, revenue generated, operational income contributed, degree of autonomy and business development contribution.
Distinguishing Features	Incumbent works under broad direction and work is guided by functional objectives. Solves highly complex problems and resolves sensitive issues for a site. Leads multi-dimensional complex projects of critical importance. Decisions made impact the long-term finances of the business.
Education and Experience	Bachelor's degree in engineering, chemistry, biology or related fields, or an equivalent combination of education and experience. Expertise in a variety of the field's concepts, practices, and procedures typically gained through 10+ years of progressively responsible experience. Good working knowledge of MS Word, Excel and Power Point.
Language	Skill to read, analyze, and interpret complex rules and regulations, financial data, professional journals and technical procedures. Skill writing reports, business correspondence, and procedure manuals. The incumbent is persuasive and highly effective at communicating takeaways, insights and recommended business direction.
Mathematical	Ability to work with mathematical concepts such proportions, basic algebra and geometry to apply to a variety of practical, variable and non-standard situations.

CERTIFICATIONS, LICENSES, REGISTRATIONS

None required.

COMPLIANCE STATEMENT

The personal and physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

PERSONAL DEMANDS

While performing the duties of this job, the employee work extended hours or special shifts, with frequent interruptions. This work requires high concentration with a high level of stress. Occasional travel required.

PHYSICAL DEMANDS

A degree of mobility is required for the employee to perform the essential duties of this job; the employee talk, hear and smell. Specific vision abilities required by this job include close vision, color vision, depth perception and the ability to adjust focus. Respirator may be required while working in the field.

WORK ENVIRONMENT

Work is performed in both office and field environments. While performing the duties of this job, the employee may be exposed to fumes or airborne particles, toxic or caustic chemicals, and risk of radiation exposure. The noise level in the office environment is usually moderate.

jobs USE

Job Title: Receiving Coordinator
Department: Administration
FLSA Status: Non-Exempt
Approved: T. Ihrke, August 2017

EEOC Job Group:
USE EEO Code:
USE Job Code: CORREC1,2,3

ABOUT US ECOLOGY

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JOB SUMMARY

The Receiving Coordinator is responsible for coordinating inbound materials and ensuring that all inbound materials are in accordance with facility, state and federal regulations.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Enters inbound shipments into the tracking database.
- Ensures that all discrepancies are identified and reported for proper resolution.
- Interacts with drivers delivering and picking up waste materials.
- Ensures that all inbound receipts are submitted in a timely manner to comply with financial and month end deadlines.
- Ensures clear communication with internal operations, disposal facilities and others in the normal course of business.
- Assists with warehouse and drum pad housekeeping as needed.
- Performs other, related duties as assigned. These are duties may not be specifically listed in this description, but which are within the general nature typically associated with the employee's level of work.

OUR COMMITMENT TO ENVIRONMENTAL COMPLIANCE

Employees are required to report any concerns associated with environmental compliance to their supervisor, General Manager or Environmental Manager. Employees are also required to complete training in hazardous waste management procedures, emergency response and other topics as outlined in the facility's training program and/or an individual training matrix.

HEALTH AND SAFETY DUTIES AND RESPONSIBILITIES

While performing this job, the employee is responsible for continuous adherence to the Company's Health & Safety (H&S) Program. This includes: the health and safety of themselves and their coworkers, completing tasks in a safe manner, attending safety meetings and mandatory H&S training, and reporting any unsafe conditions, acts or unanticipated hazards to their Supervisor, General Manager or Health and Safety Specialist. Duties and responsibilities are detailed in the H&S Program Master Document and will be provided by the H&S Specialist and/or the direct supervisor during new-hire orientation, training sessions or upon request.

SUPERVISORY RESPONSIBILITIES

The Receiving Coordinator 3 may act as a team leader.

SKILLS, KNOWLEDGE, AND ABILITIES (SKA)

Knowledge of receiving principles and practices. Demonstrates, accuracy, thoroughness and attention to detail. Must be able to prioritize, stay focused and handle multiple, diverse responsibilities.

JOB LEVEL

	Receiving Coordinator 1	Receiving Coordinator 2	Receiving Coordinator 3
Pay Grade	TBD	TBD	TBD
Distinguishing Features	Incumbent works under close supervision, receives detailed work instructions, and applies basic judgement in resolving routine issues. Troubleshoots basic problems and identifies deviations from accepted practices.	Incumbent works under general supervision, receives general work instructions, and applies limited judgement in resolving problems. Work is semi-routine in nature and incumbent makes decisions within a moderate scope. May train or guide less experienced team members.	Incumbent works under minimal supervision, receives broad work instructions, and applies decision-making skill to resolve moderately complex issues. Provides advice and guidance to less experienced team members. May act as a team leader.
Education and Experience	Some related technical education or experience to have basic knowledge of receiving practices and procedures.	In addition to Receiving Coordinator 1, a technical certificate or equivalent combination of education or experience required to have intermediate knowledge of receiving practices and procedures typically gained through 3 or more years of progressively responsible experience.	In addition to Receiving Coordinator 2, applies advanced knowledge of a single receiving function, OR applies comprehensive knowledge of multiple receiving functions typically gained through 5 or more years of progressively responsible experience.
Language	Ability to read and interpret operating, maintenance and procedure manuals.	In addition to Receiving Coordinator 1, ability to present information in one-on-one and small group situations, including vendors and coworkers.	In addition to Receiving Coordinator 2, ability to read, analyze, and interpret technical procedures and or governmental regulations. Ability to write reports, correspondence and procedure manuals. Ability to effectively present information and respond to questions from management, internal and external customers.
Mathematical	Ability to add, subtract, multiply, and divide, using whole numbers, fractions, and decimals.	In addition to Receiving Coordinator 1, ability to apply basic geometric principles to calculate area, circumference, and volume. Ability to apply mathematical principles to practical situations.	Same as Receiving Coordinator 2.

CERTIFICATIONS, LICENSES, AND REGISTRATIONS

A valid driver's license may be required for some positions.

COMPLIANCE STATEMENT

The personal and physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job.

PERSONAL DEMANDS

While performing the duties of this job, the employee may work alone, travel, work extended hours or shift work, with frequent interruptions and repetitious operations. This work requires high concentration with a moderate level of stress. Employee shall at all times demonstrate cooperative behavior with colleagues, clients, customers and vendors.

PHYSICAL DEMANDS

While performing the duties of this job the employee is frequently required to stand, walk, stoop, reach, climb or balance, hear and smell. The employee is required to use hands to handle, feel, and grasp. The employee must occasionally lift and/or move up to 50 pounds. The employee may need to work long hours on specific projects. There are frequent interruptions and repetitious motions. The employee may be in cramped or confined spaces for short periods of time. Specific vision abilities required by this job include close vision, color vision, depth perception and the ability to adjust focus. This position requires occasional customer, visitor, contractor, and vendor contact.

WORK ENVIRONMENT

While performing the duties of this job, the employee is frequently exposed to moving mechanical parts; high, precarious places; fumes or airborne particles; toxic or caustic chemicals; exposed to extreme heat, cold, wind, and dust conditions; risk of electrical shock; risk of radiation; and vibration. The noise level in the work environment is usually very loud.

Job Title: RECEIVING SUPERVISOR

Reports To:	**Operations Manager T&P**	**Department:**	**RECEIVING**
Grade Level:	**L14**	**Company:**	**Detroit**
Date:	**4/05**	**Prepared By:**	**R. Lewandowski**
Date:	**4/06**	**Edited By:**	**C. Secoy**

Job Summary:

Describe the purpose of the position.

To direct the receiving functions for Detroit. To ensure the accuracy of manifest entry and handling. To facilitate and manage the flow of materials into and out of the processing areas.

Essential Functions:

Critical duties/tasks to fulfill the purpose of the position. A function is critical if you answer " yes" to this question, " Would the flow of work be interrupted by not performing this function?"

- Supervise and train the receiving staff.
- Inspect and report daily transactions for accuracy and regulatory compliance.
- Maintain manifest tracking system and proper distribution of manifest copies.
- Ensure proper load sampling.
- Identify, maintain tracking, and release all "hold" items.
- Review and process rail paperwork.
- Act as point of contact for facility and customer information requests.

Additional Responsibilities:

Performance of additional duties not critical for job performance.

- Liaise between Receiving and facility departments; manage compliance/problem issues to resolution
- Review all fingerprints.
- Perform Receiving Coordinator duties as needed

Job Qualifications:

Required qualifications necessary to carry on the purpose and critical functions of the position.

- High School diploma or equivalent, Bachelor's degree in a technical field preferred.
- Working knowledge of environmental/hazardous waste regulations (RCRA, DOT, OSHA)
- Experience in hazardous waste industry preferred.
- Two years supervisory experience, preferably in the hazardous waste industry.
- Thorough knowledge of the Plant production capabilities

- Ability to handle multiple tasks simultaneously.
- Ability to lead Receiving Coordinators and the needs of various facility departments relative to their interaction with Receiving.

jobs USE

Job Title:	Environmental Technician Driver Job Family	EEOC Job Group:	6
Department:	Operations	USE EEO Code:	009
FLSA Status:	Non-Exempt	USE Job Code:	TECHENDR1,2,3,4
Approved:	B. Dean, August 2017		

ABOUT US ECOLOGY

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JOB SUMMARY

The Environmental Technician Driver will be responsible for proper transportation of various waste streams to include pharmaceutical waste at various generator sites. Operate Straight Trucks and Tractors Trailers to perform pickups of bulk and containerized hazardous and non-hazardous wastes. Performs a variety of duties that comply with government regulations and procedures.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Operates trucks which may include: roll-offs, tankers, tractor trailers and box trucks.
- Performs LTL pickups.
- Maintains company equipment.
- Ensures customer satisfaction.
- Maintains vehicle log.
- Maintains documentation of manifests and work orders.
- Performs DOT pre-trip and post trip inspections.
- Processes hazardous and non-hazardous materials as needed.
- Assists in maintaining good housekeeping at facility and on grounds.
- Functions as technician on lab pack and field service projects.
- Performs other, related duties as assigned. These are duties may not be specifically listed in this description, but which are within the general nature typically associated with the employee's level of work.

OUR COMMITMENT TO ENVIRONMENTAL COMPLIANCE

Employees are required to report any concerns associated with environmental compliance to their supervisor, General Manager or Environmental Manager. Employees are also required to complete training in hazardous waste management procedures, emergency response and other topics as outlined in the facility's training program and/or an individual training matrix.

HEALTH AND SAFETY DUTIES AND RESPONSIBILITIES

While performing this job, the employee is responsible for continuous adherence to the Company's Health & Safety (H&S) Program. This includes: the health and safety of themselves and their coworkers, completing tasks in a safe manner, attending safety meetings and mandatory H&S training, and reporting any unsafe conditions, acts or unanticipated hazards to their Supervisor, General Manager or Health and Safety Specialist. Duties and responsibilities are detailed in the H&S Program Master Document and will be provided by the H&S Specialist and/or the direct supervisor during new-hire orientation, training sessions or upon request.

SUPERVISORY RESPONSIBILITIES

Environmental Technician Driver 2 and 3 may act as a team leader.

SKILLS, KNOWLEDGE, AND ABILITIES (SKA)

Knowledge of electrical, plumbing, hydraulic and compressor systems. Knowledge of pumps, motors, motor controls, instrumentation, metal fabrication, and other maintenance functions. Skilled using hand and shop tools, and instruments. Demonstrates, accuracy, thoroughness and attention to detail. Must be able to prioritize, stay focused and handle multiple, diverse responsibilities.

JOB LEVEL

	Environmental Technician Driver 1	Environmental Technician Driver 2	Environmental Technician Driver 3	Environmental Technician Driver 4
Pay Grade	TBD	TBD	TBD	TBD
Distinguishing Features	Incumbent works under close supervision, receives detailed work instructions, and applies basic judgement in resolving routine issues. Troubleshoots basic problems and identifies deviations from accepted practices.	Incumbent works under general supervision, receives general work instructions, and applies limited judgement in resolving problems. Works is semi-routine in nature and incumbent makes decisions within a moderate scope. May train or guide less experienced team members.	Incumbent works under minimal supervision, receives broad work instructions, and applies decision making skill to resolve moderately complex issues. Provides advice and guidance to less experienced team members. May act as a team leader.	Incumbent works under general direction, receives broad work instructions, and applies decision making skill to resolve complex issues. Incumbent independently determines methods and procedures on new assignments. Provides advice and guidance to less experienced team members. May act as a team leader.
Education and Experience	High school diploma or equivalent preferred. Some related technical education or experience to have basic knowledge of commercial	In addition to Environmental Technician Driver 1. A technical certificate or equivalent combination of education or experience required to	In addition to Environmental Technician Driver 2. Applies advanced knowledge of a single maintenance function, OR Applies comprehensive	In addition to Environmental Technician Driver 3. Expert knowledge of a single maintenance function, OR Applies advanced knowledge of multiple

	driving practices and procedures.	have intermediate knowledge of maintenance practices and procedures typically gained through 3 or more years of progressively responsible experience.	knowledge of multiple maintenance functions typically gained through 5 or more years of progressively responsible experience.	maintenance functions typically gained through seven or more years of progressively responsible experience.
Language	Ability to read and interpret documents such as safety rules, operating and maintenance instructions and procedures. Ability to keep logs and records, create simple correspondence and comprehend simple instructions. Ability to read and interpret operating, maintenance and procedure manuals.	In addition to Environmental Technician Driver 2. Ability to present information in one-on-one and small group situations, including vendors and coworkers.	In addition to Environmental Technician Driver 3. Ability to read, analyze, and interpret technical procedures and or governmental regulations. Ability to write reports, correspondence and procedure manuals. Ability to effectively present information and respond to questions from management, internal and external customers.	In addition to Environmental Technician Driver 4. Ability to effectively manage and communicate work delivery expectations with internal customers.
Mathematical	Ability to add, subtract, multiply and divide.	In addition to Maintenance Assistant. Ability to add, subtract, multiply, and divide, using whole numbers, fractions, and decimals.	In addition to Environmental Technician Driver 2. Ability to apply basic geometric principles to calculate area, circumference, and volume. Ability to apply mathematical principles to practical situations.	Same as Environmental Technician Driver 2.

CERTIFICATIONS, LICENSES, AND REGISTRATIONS

A valid class B commercial driver's license is required. A class A CDL may be required for some positions.

COMPLIANCE STATEMENT

The personal and physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

US Ecology is an Equal Opportunity/Affirmative Action Employer. We consider all qualified applicants without regard to race, religion, color, sex, national origin, age, sexual orientation, disability or veteran status, among other factors.

PERSONAL DEMANDS

While performing the duties of this job, the employee may work alone, travel, work extended hours or shift work, with frequent interruptions and repetitious operations. This work requires high concentration with a moderate level of stress. Employee shall at all times demonstrate cooperative behavior with colleagues, clients, customers and vendors.

PHYSICAL DEMANDS

While performing the duties of this job the employee is frequently required to stand, walk, stoop, reach, climb or balance, hear and smell. The employee is required to use hands to handle, feel, and grasp. The employee must occasionally lift and/or move up to 50 pounds. The employee may need to work long hours on specific projects. There are frequent interruptions and repetitious motions. The employee may be in cramped or confined spaces for short periods of time. Specific vision abilities required by this job include close vision, color vision, depth perception and the ability to adjust focus. This position requires occasional customer, visitor, contractor, and vendor contact.

WORK ENVIRONMENT

The work is typically performed in a truck, at a customer's facility and/or company service facility. The elements will be dependent on the season. The noise level in the work environment is usually moderate.

jobs USE

Job Title:	Warehouse Technician Job Family	EEOC Job Group:	
Department:	Operations	USE Job Code:	
FLSA Status:	Non-Exempt	Approved:	TECHWH1,2
Approved:	M. Sucher, February 2017		

ABOUT US ECOLOGY

US Ecology, Inc. is a leading North American provider of environmental services to commercial and government entities. The Company addresses the complex waste management needs of its customers by offering treatment, disposal and recycling of industrial, hazardous and radioactive waste, as well as a wide range of complementary field and industrial services. US Ecology's focus on safety, environmental compliance, and customer service, enables us to effectively meet the needs of our customers and to build long-lasting relationships. Headquartered in Boise, Idaho, with operations in the United States, Canada and Mexico, the Company has been protecting the environment since 1952.

JOB SUMMARY

The Warehouse Technician maintains warehouse inventory, and performs repair and maintenance on warehouse and warehousing equipment.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Loads and unloads transfer trucks using light equipment, such as forklift and pallet-jack.
- Keeps accurate inventory records by counting and separating containers.
- Processes and consolidates drums for liquid material.
- Performs general housekeeping and groundskeeping.
- Performs other, related duties as assigned. These are duties may not be specifically listed in this description, but which are within the general nature typically associated with the employee's level of work.

OUR COMMITMENT TO ENVIRONMENTAL COMPLIANCE

Employees are required to report any concerns associated with environmental compliance to their supervisor, General Manager or Environmental Manager. Employees are also required to complete training in hazardous waste management procedures, emergency response and other topics as outlined in the facility's training program and/or an individual training matrix.

HEALTH AND SAFETY DUTIES AND RESPONSIBILITIES

While performing this job, the employee is responsible for continuous adherence to the Company's Health & Safety (H&S) Program. This includes: the health and safety of themselves and their coworkers, completing tasks in a safe manner, attending safety meetings and mandatory H&S training, and reporting any unsafe conditions, acts or unanticipated hazards to their Supervisor, General Manager or Health and Safety Specialist. Duties and responsibilities are detailed in the H&S Program Master Document and will be provided by the H&S Specialist and/or the direct supervisor during new-hire orientation, training sessions or upon request.

SUPERVISORY RESPONSIBILITIES

This position has no supervisory responsibilities.

SKILLS, KNOWLEDGE, AND ABILITIES (SKA)

Ability to use light equipment, such as forklift, pallet-jack, and drum dolly. Demonstrates, accuracy, thoroughness and attention to detail. Must be able to prioritize, stay focused and handle multiple, diverse responsibilities.

JOB LEVEL

	Warehouse Technician 1	Warehouse Technician 2
Pay Grade	TBD	TBD
Distinguishing Features	Incumbent works under close supervision and receives training to develop skills. Works on tasks that are simple and require limited judgement. Performs routine duties to become familiar with assigned area. Assists more experienced team members.	Incumbent works under close supervision, receives detailed work instructions, and applies basic judgement in resolving routine issues. Troubleshoots basic problems and identifies deviations from accepted practices.
Education and Experience	High school diploma or equivalent preferred. Trains to perform or advance in a technical capacity.	In addition to Warehouse Technician Assistant, some related technical education or experience to have basic knowledge of warehousing practices and procedures.
Language	Ability to read and interpret simple documents such as safety rules, operating and maintenance instructions and procedures. Ability to keep logs and records, create simple correspondence and comprehend simple instructions.	In addition to Warehouse Technician Assistant, ability to read and interpret operating, maintenance and procedure manuals.
Mathematical	Ability to add, subtract, multiply and divide.	In addition to Warehouse Technician Assistant, ability to add, subtract, multiply, and divide, using whole numbers, fractions, and decimals.

CERTIFICATIONS, LICENSES, AND REGISTRATIONS

A valid driver's license may be required for some positions.
Light equipment certification may be required for some positions.

COMPLIANCE STATEMENT

The personal and physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

PERSONAL DEMANDS

While performing the duties of this job, the employee may work alone, travel, work extended hours or shift work, with frequent interruptions and repetitious operations. This work requires high concentration with a moderate level of stress. Employee shall at all times demonstrate cooperative behavior with colleagues, clients, customers and vendors.

PHYSICAL DEMANDS

While performing the duties of this job the employee is frequently required to stand, walk, stoop, reach, climb or balance, hear and smell. The employee is required to use hands to handle, feel, and grasp. The employee must occasionally lift and/or move up to 50 pounds. The employee may need to work long hours on specific projects. There are frequent interruptions and repetitious motions. The employee may be in cramped or confined spaces for short periods of time. Specific vision abilities required by this job include close vision, color vision, depth perception and the ability to adjust focus. This position requires occasional customer, visitor, contractor, and vendor contact.

WORK ENVIRONMENT

While performing the duties of this job, the employee is frequently exposed to moving mechanical parts; high, precarious places; fumes or airborne particles; toxic or caustic chemicals; exposed to extreme heat, cold, wind, and dust conditions; risk of electrical shock; risk of radiation; and vibration. The noise level in the work environment is usually very loud.

jobs USE

Job Title:	Thermal Operator Job Family	EEOC Job Group:	
Department:	Operations	USE EEO Code:	
FLSA Status:	Non-Exempt	USE Job Code:	OPTHA, OPTH 1,2
Approved:	M. Sucher, February 2017		

ABOUT US ECOLOGY

US Ecology, Inc. is a leading North American provider of environmental services to commercial and government entities. The Company addresses the complex waste management needs of its customers by offering treatment, disposal and recycling of industrial, hazardous and radioactive waste, as well as a wide range of complementary field and industrial services. US Ecology's focus on safety, environmental compliance, and customer service, enables us to effectively meet the needs of our customers and to build long-lasting relationships. Headquartered in Boise, Idaho, with operations in the United States, Canada and Mexico, the Company has been protecting the environment since 1952.

JOB SUMMARY

The Thermal Operator performs the operational functions relating to the treatment and disposal of thermal waste in a safe, efficient manner and in compliance with all applicable regulations.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Performs sample testing and lab work, and executes treatment required to meet discharge limitations.
- Loads and unloads bulk and containerized materials using light equipment.
- Operates equipment used in the collection, packaging, recycling, treatment, and disposal of thermal waste.
- Performs daily inspections of facility and storage tanks.
- Processes inbound and outbound paperwork including customer manifests.
- Operates equipment to empty oil drums and transfer solids and fluids to storage tanks.
- Performs general housekeeping, including cleaning tankers, and maintenance of equipment and site.
- Performs other, related duties as assigned. These are duties may not be specifically listed in this description, but which are within the general nature typically associated with the employee's level of work.

OUR COMMITMENT TO ENVIRONMENTAL COMPLIANCE

Employees are required to report any concerns associated with environmental compliance to their supervisor, General Manager or Environmental Manager. Employees are also required to complete training in hazardous waste management procedures, emergency response and other topics as outlined in the facility's training program and/or an individual training matrix.

HEALTH AND SAFETY DUTIES AND RESPONSIBILITIES

While performing this job, the employee is responsible for continuous adherence to the Company's Health & Safety (H&S) Program. This includes: the health and safety of themselves and their coworkers, completing tasks in a safe manner, attending safety meetings and mandatory H&S training, and reporting any unsafe conditions, acts or unanticipated hazards to their Supervisor, General Manager or Health and Safety Specialist.

Duties and responsibilities are detailed in the H&S Program Master Document and will be provided by the H&S Specialist and/or the direct supervisor during new-hire orientation, training sessions or upon request.

SUPERVISORY RESPONSIBILITIES

Thermal Operator 3 may act as a lead coordinator.

SKILLS, KNOWLEDGE, AND ABILITIES (SKA)

Ability to use light equipment, such as forklift and pallet-jack. Demonstrates, accuracy, thoroughness and attention to detail. Must be able to prioritize, stay focused and handle multiple, diverse responsibilities.

JOB LEVEL

	Thermal Operator Assistant	Thermal Operator 1	Thermal Operator 2
Pay Grade	TBD	TBD	TBD
Distinguishing Features	Incumbent works under close supervision and receives training to develop skills. Works on tasks that are simple and require limited judgement. Performs routine duties to become familiar with assigned area. Assists more experienced team members.	Incumbent works under close supervision, receives detailed work instructions, and applies basic judgement in resolving routine issues. Troubleshoots basic problems and identifies deviations from accepted practices.	Incumbent works under general supervision, receives general work instructions, and applies limited judgement in resolving problems. Works is semi-routine in nature and incumbent makes decisions within a moderate scope. May train or guide less experienced team members. May act as a team lead.
Education and Experience	High school diploma or equivalent preferred. Trains to perform or advance in a technical capacity.	In addition to Thermal Operator Assistant, some related technical education or experience to have basic knowledge of operational practices and procedures.	In addition to Thermal Operator 1, a technical certificate or equivalent combination of education or experience required to have intermediate knowledge of operational practices and procedures typically gained through 3 or more years of progressively responsible experience.
Language	Ability to read and interpret simple documents such as safety rules, operating and maintenance instructions and procedures. Ability to keep logs and records, create simple correspondence and comprehend simple instructions.	In addition to Thermal Operator Assistant, ability to read and interpret operating, maintenance and procedure manuals.	In addition to Thermal Operator 1, ability to present information in one-on-one and small group situations, including vendors and coworkers.
Mathematical	Ability to add, subtract, multiply and divide.	In addition to Thermal Operator Assistant, ability to add, subtract,	In addition to Thermal Operator 1, ability to apply basic geometric

		multiply, and divide, using whole numbers, fractions, and decimals.	principles to calculate area, circumference, and volume. Ability to apply mathematical principles to practical situations.

CERTIFICATIONS, LICENSES, AND REGISTRATIONS

A valid driver's license may be required for some positions.

COMPLIANCE STATEMENT

The personal and physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

PERSONAL DEMANDS

While performing the duties of this job, the employee may work alone, travel, work extended hours or shift work, with frequent interruptions and repetitious operations. This work requires high concentration with a moderate level of stress. Employee shall at all times demonstrate cooperative behavior with colleagues, clients, customers and vendors.

PHYSICAL DEMANDS

While performing the duties of this job the employee is frequently required to stand, walk, stoop, reach, climb or balance, hear and smell. The employee is required to use hands to handle, feel, and grasp. The employee must occasionally lift and/or move up to 50 pounds. The employee may need to work long hours on specific projects. There are frequent interruptions and repetitious motions. The employee may be in cramped or confined spaces for short periods of time. Specific vision abilities required by this job include close vision, color vision, depth perception and the ability to adjust focus. This position requires occasional customer, visitor, contractor, and vendor contact.

WORK ENVIRONMENT

While performing the duties of this job, the employee is frequently exposed to moving mechanical parts; high, precarious places; fumes or airborne particles; toxic or caustic chemicals; exposed to extreme heat, cold, wind, and dust conditions; risk of electrical shock; risk of radiation; and vibration. The noise level in the work environment is usually very loud.

jobs USE

Job Title:	Chemical Processing Operator Job Family	EEOC Job Group:	
Department:	Operations	USE EEO Code:	
FLSA Status:	Non-Exempt	USE Job Code:	OPCPA, OPCP1,2,3,4
Approved:	M. Sucher, February 2017		

ABOUT US ECOLOGY

US Ecology, Inc. is a leading North American provider of environmental services to commercial and government entities. The Company addresses the complex waste management needs of its customers by offering treatment, disposal and recycling of industrial, hazardous and radioactive waste, as well as a wide range of complementary field and industrial services. US Ecology's focus on safety, environmental compliance, and customer service, enables us to effectively meet the needs of our customers and to build long-lasting relationships. Headquartered in Boise, Idaho, with operations in the United States, Canada and Mexico, the Company has been protecting the environment since 1952.

JOB SUMMARY

The Chemical Processing Operator controls equipment and systems pre-treat hazardous and non-hazardous chemicals in a safe, efficient manner and in compliance with all applicable regulations.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Performs sample testing and lab work, and executes chemical treatment required to meet discharge limitations.
- Loads and unloads bulk and containerized materials using light equipment.
- Operates chemical process equipment, filter presses, and filtration systems.
- Performs daily inspections of facility and storage tanks.
- Processes inbound and outbound paperwork including customer manifests.
- Operates equipment to empty oil drums and transfer solids and fluids to storage tanks.
- Manages solids and chemical treated fluids in storage facility.
- Performs general housekeeping, including cleaning tankers, and maintenance of equipment and site.
- Performs other, related duties as assigned. These are duties may not be specifically listed in this description, but which are within the general nature typically associated with the employee's level of work.

OUR COMMITMENT TO ENVIRONMENTAL COMPLIANCE

Employees are required to report any concerns associated with environmental compliance to their supervisor, General Manager or Environmental Manager. Employees are also required to complete training in hazardous waste management procedures, emergency response and other topics as outlined in the facility's training program and/or an individual training matrix.

HEALTH AND SAFETY DUTIES AND RESPONSIBILITIES

While performing this job, the employee is responsible for continuous adherence to the Company's Health & Safety (H&S) Program. This includes: the health and safety of themselves and their coworkers, completing tasks in a safe manner, attending safety meetings and mandatory H&S

training, and reporting any unsafe conditions, acts or unanticipated hazards to their Supervisor, General Manager or Health and Safety Specialist. Duties and responsibilities are detailed in the H&S Program Master Document and will be provided by the H&S Specialist and/or the direct supervisor during new-hire orientation, training sessions or upon request.

SUPERVISORY RESPONSIBILITIES

Chemical Processing Operator 3 and 4 may act as a lead.

SKILLS, KNOWLEDGE, AND ABILITIES (SKA)

Knowledge of heating/cooling, heat transfer/evaporation processes. Ability to use light equipment, such as forklift and pallet-jack. Skilled using hand and shop tools, and instruments. Demonstrates, accuracy, thoroughness and attention to detail. Must be able to prioritize, stay focused and handle multiple, diverse responsibilities.

JOB LEVEL

	Chemical Processing Assistant	Chemical Processing Operator 1	Chemical Processing Operator 2	Chemical Processing Operator 3	Chemical Processing Operator 4
Pay Grade	TBD	TBD	TBD	TBD	TBD
Distinguishing Features	Incumbent works under close supervision and receives training to develop skills. Works on tasks that are simple and require limited judgement. Performs routine duties to become familiar with assigned area. Assists more experienced team members.	Incumbent works under close supervision, receives detailed work instructions, and applies basic judgement in resolving routine issues. Troubleshoots basic problems and identifies deviations from accepted practices.	Incumbent works under general supervision, receives general work instructions, and applies limited judgement in resolving problems. Works is semi-routine in nature and incumbent makes decisions within a moderate scope. May train or guide less experienced team members.	Incumbent works under minimal supervision, receives broad work instructions, and applies decision making skill to resolve moderately complex issues. Provides advice and guidance to less experienced team members. May act as a team lead.	Incumbent works under general direction, receives broad work instructions, and applies decision making skill to resolve complex issues. Incumbent independently determines methods and procedures on new assignments. Provides advice and guidance to less experienced team members. May act as a team lead.
Education and Experience	High school diploma or equivalent preferred. Trains to perform or advance in a technical capacity.	In addition to Chemical Processing Operator Assistant, some related technical education or experience to have basic knowledge of chemical or operation practices and procedures.	In addition to Chemical Processing Operator 1, a technical certificate or equivalent combination of education or experience required to have intermediate knowledge of chemical	In addition to Chemical Processing Operator 2, applies advanced knowledge of a single chemical or operations function, OR applies comprehensive knowledge of multiple chemical or operation	In addition to Chemical Processing Operator 3, expert knowledge of a single chemical or operation function, OR Applies advanced knowledge of multiple chemical or operation functions typically

			of operation practices and procedures typically gained through 3 or more years of progressively responsible experience.	functions typically gained through 5 or more years of progressively responsible experience.	gained through seven or more years of progressively responsible experience.
Language	Ability to read and interpret simple documents such as safety rules, operating and maintenance instructions and procedures. Ability to keep logs and records, create simple correspondence and comprehend simple instructions.	In addition to Chemical Processing Operator Assistant, ability to read and interpret operating, maintenance and procedure manuals.	In addition to Chemical Processing Operator 1, ability to present information in one-on-one and small group situations, including vendors and coworkers.	In addition to Chemical Processing Operator 2, ability to read, analyze, and interpret technical procedures and regulations. Ability to write reports, correspondence and procedure manuals. Ability to effectively present information and respond to questions from management, internal and external customers.	In addition to Chemical Processing Operator 3, ability to effectively manage and communicate work delivery expectations with internal customers.
Mathematical	Ability to add, subtract, multiply and divide.	In addition to Chemical Processing Operator Assistant, ability to add, subtract, multiply, and divide, using whole numbers, fractions, and decimals.	In addition to Chemical Processing Operator 2, ability to apply basic geometric principles to calculate area, circumference, and volume. Ability to apply mathematical principles to practical situations.	Same as Chemical Processing Operator 2.	Same as Chemical Processing Operator 2.

CERTIFICATIONS, LICENSES, AND REGISTRATIONS

A valid driver's license may be required for some positions.
Special equipment operation certificate may be required for some positions.

COMPLIANCE STATEMENT

The personal and physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

US Ecology is an Equal Opportunity/Affirmative Action Employer. We consider all qualified applicants without regard to race, religion, color, sex, national origin, age, sexual orientation, disability or veteran status, among other factors.

PERSONAL DEMANDS

While performing the duties of this job, the employee may work alone, travel, work extended hours or shift work, with frequent interruptions and repetitious operations. This work requires high concentration with a moderate level of stress. Employee shall at all times demonstrate cooperative behavior with colleagues, clients, customers and vendors.

PHYSICAL DEMANDS

While performing the duties of this job the employee is frequently required to stand, walk, stoop, reach, climb or balance, hear and smell. The employee is required to use hands to handle, feel, and grasp. The employee must occasionally lift and/or move up to 50 pounds. The employee may need to work long hours on specific projects. There are frequent interruptions and repetitious motions. The employee may be in cramped or confined spaces for short periods of time. Specific vision abilities required by this job include close vision, color vision, depth perception and the ability to adjust focus. This position requires occasional customer, visitor, contractor, and vendor contact.

WORK ENVIRONMENT

While performing the duties of this job, the employee is frequently exposed to moving mechanical parts; high, precarious places; fumes or airborne particles; toxic or caustic chemicals; exposed to extreme heat, cold, wind, and dust conditions; risk of electrical shock; risk of radiation; and vibration. The noise level in the work environment is usually very loud.

Appendix J- 1: Evaluation of Releases

Tetra Tech EM Inc.

1099 18th Street, Suite 1960 ♦ Denver, CO 80202 ♦ (303) 295-1101 ♦ FAX (303) 295-2818

October 27, 1999

Mr. Dave Navarre
McNamee Industrial Services
3131 South State Street
Ann Arbor, MI 48108

Subject: **Evaluation of Worst Case Releases From Detroit Hazardous Waste Treatment Facility**

Dear Dave:

At your request, we have performed a preliminary screening analysis of the air quality impact of two, worst case, accidental releases from the Detroit hazardous waste processing facility. Based upon our discussions with you we created the following scenarios:

- Solid Waste Section - Chemical Fixation

  A 20 cu. yd. container with 5,000 ppm sulfide is assumed to react with the wrong chemical producing 5,000 ppm H_2S inside the building. Gaseous emissions are assumed to be collected by the ventilation system and discharged to atmosphere. The total potential quantity of H_2S is assumed to be discharged to the atmosphere over a one hour period. Total quantity of potential released H_2S is 250 lbs. assuming a soil density of 2,500 lbs. per cu yd.

- Liquid Waste Section - Chemical Precipitation

  A 5,000 gal tank of liquid containing 1000 ppm of HCN is assumed to rupture spilling the entire contents. HCN is totally volatilized as a gas and disperses over a one hour period. There is no ventilation system but the gas is assumed to seep out through building openings. The estimated emissions of HCN are 0.86 lbs in an hour based upon a mitigation factor of 0.55 (EPA Guidance on Accidental Releases - Appendix B).

To predict the potential impact of air emissions from the above two scenarios we used the EPA T-SCREEN model which simulates both point and area sources. We obtained building and stack parameters and used the shortest distance from the releases to the property boundary to estimate maximum 1-hr ambient concentrations of H_2S and HCN. Model input parameters are shown in Table-1.

We compared those modeled maximum concentrations with Emergency Release Planning Guidelines (ERPG-2) which are prepared by the American Industrial Hygiene Association and also used by EPA as guidance for accidental release evaluation. The ERPG's represent maximum 1-hr concentrations that individuals can be exposed to without serious harm. Model results compared to ERPG's for H_2S and HCN are shown in Table-2. These results show that the predicted maximum air quality impact from these two worst case scenarios are well below a harmful level for both H_2S and HCN.

TABLE 1

MODEL INPUT PARAMETERS

Model Inputs	H_2S Point Source Release	HCN Area Source Release
Emission rate, g/s	31.5	0.11
Stack height, m	21.0	0
Stack I.D., m	1.2	-
Stack exit velocity, m/s	27.1	-
Stack gas exit temp., °k	29.3	-
Building height, m	9.1	-
Min. hor. bldg. dim., m	59.7	-
Max. hor. bldg. dim., m	69.2	-
Length of larger side, m	-	46.95
Length of smaller side, m	-	46.95

TABLE 2

MAXIMUM PREDICTED IMPACT OF RELEASES

Release Scenario	Pollutant	Type of Release	Emission Rate	Max. Modeled Conc.	Acceptable Ambient Conc (ERPG-2)
Gaseous release from 20 cu. yds. of contaminated soil	H_2S	Point source ventilation system	2.15 lb/hr or 31.5 g/s	1 ppm	30 ppm
Spill/rupture of 5,000 gallon liquid tank	HCN	Area source from building	0.86 lb/hr or 0.11 g/s	0.5 ppm	10 ppm

Appendix J- 2: MiEJ Screen Area of Interest Report

https://www.michigan.gov/egle/maps-data/miejscreen

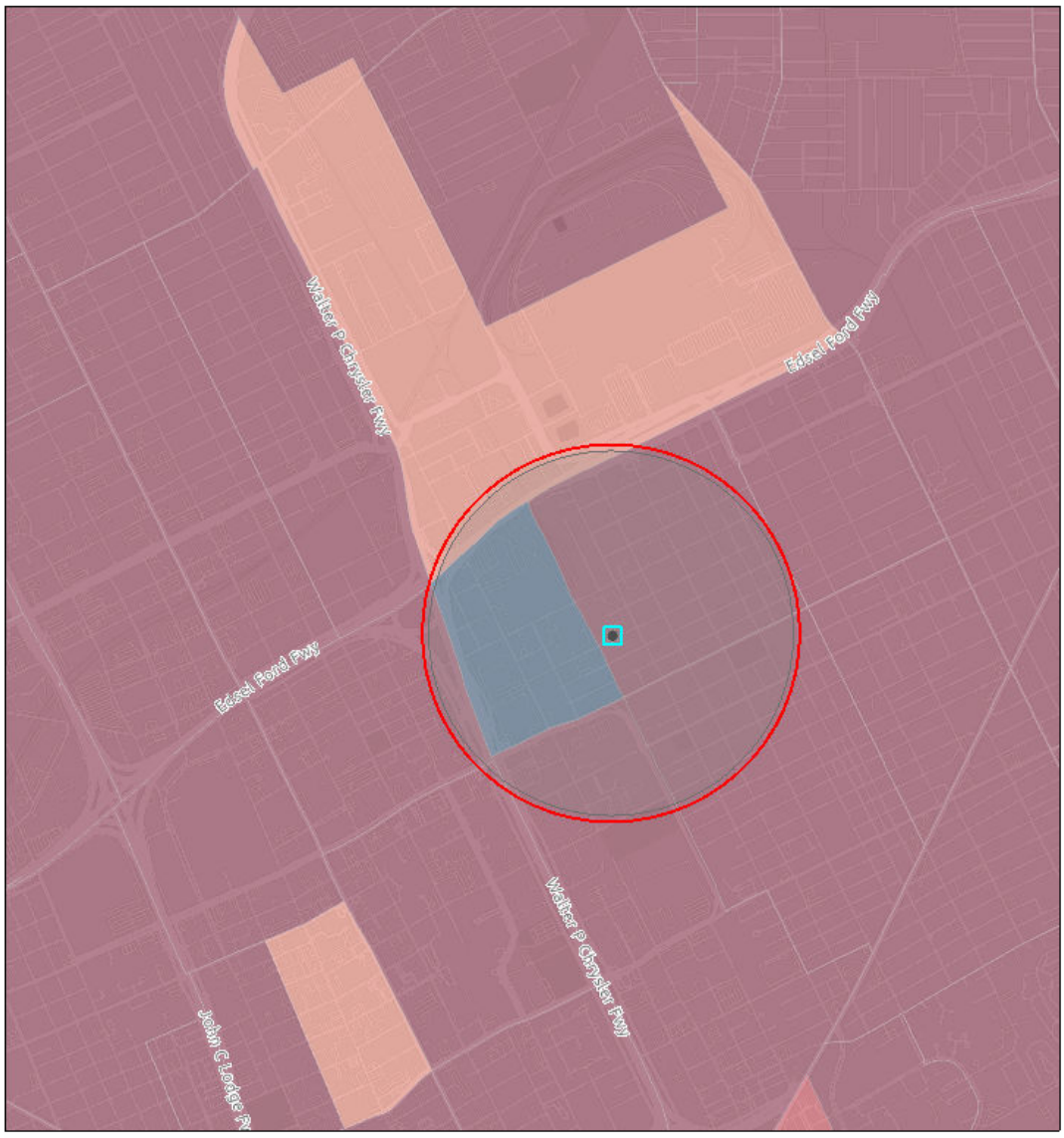
MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

MiEJScreen Report DRAFT

Area of Interest (AOI) Information

Area : 1 mi²

Oct 27 2022 9:34:35 Eastern Daylight Time



MiEJScreen Overall Score

- 0 – 10 (Lowest Scores)
- > 70 – 80
- > 80 – 90
- > 90 – 100 (Highest Scores)

1:36,112

0 0.23 0.45 0.9 mi

0 0.35 0.7 1.4 km

Province of Ontario, Esri Canada, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, NRCan, Parks Canada

MiEJScreen Overall Score

#	Census Tract	Tract Name	County	MiEJ Score Percentile	Environmental Conditions Percentile
1	26163511200	Census Tract 5112	Wayne County	99	98
2	26163518500	Census Tract 5185	Wayne County	100	99
3	26163517500	Census Tract 5175	Wayne County	100	99
4	26163518000	Census Tract 5180	Wayne County	93	97
5	26163985100	Census Tract 9851	Wayne County	78	96
6	26163518900	Census Tract 5189	Wayne County	99	99
7	26163518800	Census Tract 5188	Wayne County	100	97
8	26163985900	Census Tract 9859	Wayne County	0	66
9	26163518400	Census Tract 5184	Wayne County	99	97

#	Population Characteristics Score Percentile	Total Population	Area MiSq	Population Density (People/MiSq)	Percent Unemployed
1	93	1,243	0.5	2,398	10
2	99	940	0.3	3,041	14
3	99	2,621	0.4	6,164	13
4	83	2,787	0.3	8,481	6
5	61	182	1.1	162	0
6	91	1,869	0.7	2,625	31
7	99	650	0.5	1,187	20
8	0	0	0.2	0	*No Data*
9	98	297	0.4	729	29

#	Median Household Income past 12 months	Percent of Population that is Hispanic or Latino	Percent of Population that is White alone, Non-Hispanic	Percent of Population that is Black or African American alone, Non-Hispanic	Percent of Population that is American Indian and Alaska Native alone, Non-Hispanic
1	22,708	0	7	93	1
2	21,250	2	16	71	1
3	13,895	2	17	73	0
4	36,712	3	29	53	0
5	44,000	5	18	78	0
6	18,482	0	3	96	0
7	20,313	0	16	84	0
8	*No Data*	*No Data*	*No Data*	*No Data*	*No Data*
9	*No Data*	0	38	61	1

#	Percent of Population that is Asian alone, Non-Hispanic	Percent of Population that is Native Hawaiian and Other Pacific Islander alone, Non-Hispanic	Percent of Population that is Some Other Race alone, Non-Hispanic	Percent of Population that is 2 or More Races, Non-Hispanic	Area(mi²)
1	0	0	0	0	< 0.01
2	10	0	0	1	< 0.01
3	6	0	1	1	< 0.01
4	10	0	0	4	0.04
5	0	0	0	0	0.05
6	0	0	0	0	0.13
7	0	0	0	0	0.17
8	*No Data*	*No Data*	*No Data*	*No Data*	0.24
9	0	0	0	0	0.37

1) Environmental Conditions: Exposure Percentiles

#	1) Environmental Conditions: Exposure Percentiles	NATA Air Toxics Cancer Risks	NATA Respiratory Hazard Index	NATA Diesel Particulate Matter	Particulate Matter 2.5 (PM2.5)
1	100	94	97	99	92
2	99	95	98	98	89
3	100	98	99	99	91
4	100	97	98	99	92
5	100	94	97	98	91
6	100	97	98	99	90
7	93	94	97	99	89
8	99	*No Data*	*No Data*	*No Data*	91
9	99	96	98	98	90

#	Ozone	Traffic Proximity and Volume	Area(mi²)
1	83	99	< 0.01
2	87	90	< 0.01
3	83	96	< 0.01
4	82	100	0.04
5	85	98	0.05
6	84	93	0.13
7	85	38	0.17
8	84	100	0.24
9	85	91	0.37

2) Environmental Conditions: Environmental Effects Percentiles

#	2) Environmental Conditions: Environmental Effects	Proximity to Cleanup Sites	Proximity to Hazardous Waste Facilities	Impaired Water Bodies	Proximity to Solid Waste Sites and Facilities
1	62	98	100	0	0
2	83	77	99	0	92
3	77	99	100	0	61
4	54	98	100	0	0
5	55	93	100	0	0
6	77	99	99	0	86
7	92	97	99	0	86
8	0	0	0	0	0
9	61	85	100	0	0

#	Lead Paint Indicator	Proximity to Risk Management Plan (RMP) Sites	Wastewater Discharge Indicator	Area(mi²)
1	83	85	0	< 0.01
2	94	82	0	< 0.01
3	33	91	34	< 0.01
4	61	81	0	0.04
5	75	76	0	0.05
6	20	79	36	0.13
7	87	90	38	0.17
8	0	0	0	0.24
9	94	84	0	0.37

3) Population Characteristics: Sensitive Populations Percentiles

#	3) Population Characteristics: Sensitive Populations Percentiles	Asthma	Cardiovascular Disease	Low Birth Weight Infants	Lead Blood Level Suppressed
1	95	87	92	90	*No Data*
2	97	87	96	95	100
3	94	89	98	91	*No Data*
4	86	85	83	79	*No Data*
5	76	85	92	91	*No Data*
6	86	96	100	76	*No Data*
7	100	96	97	99	*No Data*
8	*No Data*	*No Data*	*No Data*	*No Data*	*No Data*
9	95	88	96	81	*No Data*

#	Life Expectancy Percentile	Life Expectancy	Area(mi²)
1	97	69	< 0.01
2	91	72	< 0.01
3	99	67	< 0.01
4	*No Data*	*No Data*	0.04
5	*No Data*	*No Data*	0.05
6	88	72	0.13
7	*No Data*	*No Data*	0.17
8	*No Data*	*No Data*	0.24
9	*No Data*	*No Data*	0.37

4) Population Characteristics: Socioeconomic Factors Percentiles

#	4) Population Characteristics: Socioeconomic Factors Percentiles	Poverty	Percent Minority	Less Than High School Education	Linguistic Isolation
1	87	94	92	67	0
2	96	90	89	78	0
3	100	98	89	89	83
4	77	69	86	76	50
5	23	37	88	72	0
6	95	97	95	92	0
7	97	92	89	95	0
8	0	0	0	0	0
9	97	84	84	94	83

#	Individuals Under 5 Years Old	Individuals Over 64 Years Old	Unemployment	Housing Burden	Area(mi²)
1	72	35	92	96	< 0.01
2	90	92	94	93	< 0.01
3	52	81	91	98	< 0.01
4	4	27	86	96	0.04
5	0	0	6	84	0.05
6	80	62	92	97	0.13
7	98	72	98	90	0.17
8	0	0	0	0	0.24
9	0	91	97	99	0.37

Appendix M- 1: Protocol for Evaluating the UHW Manifest

Protocol for Evaluating the Uniform Hazardous Waste Manifest

Note: All Manifest discrepancies must be resolved with the assistance of the Customer Service Department (CSD).

ITEM 1: Generator's U.S. EPA ID No./Manifest Document No.

The generator's U.S. EPA (EPA) twelve-digit identification number or State generator identification number if the generator site does not have an EPA Identification Number must be entered.

ITEM 2: Page 1 of _

Receiving Coordinator should confirm that, if more than three transporters were used to transport the shipment, a "2" is entered here and a continuation sheet accompanies the Manifest. In all other cases "1 of 1" is the appropriate entry.

ITEM 3: Emergency Response Phone

The generator must enter a phone number for which emergency response information can be obtained during transportation. The emergency response number must:

- Be the number of the generator or the number of an agency or organization who is capable of and accepts responsibility for providing detailed information about the shipment;
- Reach a phone that is monitored 24 hours a day, at all times, while the waste is in transportation (including transportation related storage); and
- Reach someone who is either knowledgeable of the hazardous waste being shipped and has comprehensive emergency response and spill cleanup/incident mitigation information for the material being shipped or has immediate access to a person who has that knowledge and information about the shipment.

ITEM 4: Manifest Tracking Number

This unique tracking number must be pre-printed on the manifest by the 'forms' printer

ITEM 5: Generator's Mailing Address, Phone Number, and Site Address

The Generator's name, mailing address to which the completed signed manifest will be sent by EQD to the generator, and the generator's telephone number must be entered in this space. The physical site address from which the shipment originated should be entered if this is different from the mailing address.

ITEM 6: Transporter 1 Company Name and U.S. EPA ID Number

The company name and U.S. EPA ID number for the first transporter who transported the waste must be entered in this space.

ITEM 7: Transporter Company Name and U.S. EPA ID Number

If applicable, the company name and U.S. EPA ID number for the second transporter who transported the waste must be entered in this space. If more than two transporters are needed, a Continuation Sheet (EPA Form 8700-22A) should be attached.

ITEM 8: Designated Facility Name, Site Address, and U.S. EPA ID Number

The Designated Facility company name and U.S. EPA ID number, and telephone number (EQD for wastes being received at EQD) of the facility designated to receive the waste listed on the manifest.

ITEM 9: U.S. DOT Description (including Proper Shipping Name, Hazard Class or Division, Identification Number, and Packing Group)

Item 9a: If the wastes identified in Item 9b consist of both hazardous and nonhazardous materials, then the hazardous materials are identified by entering an "X" in this Item next to the corresponding hazardous material identified in Item 9b

Item 9b: The U.S. proper shipping name must be entered in accordance to 49 CFR 172 which contains Reportable Quantity (if applicable), the Identification Number (UN/NA), Proper shipping name (including any technical names if applicable), Hazard Class or Division, and Packing Group.

ITEM 10: Containers (Number and Type)

The number and type of container for each waste must be included in Item 10.

ITEM 11: Total Quantity

The total quantity of waste, rounded to the nearest whole unit is entered in Item 11.

ITEM 12: Units of Measure

Appropriate abbreviations per 40 CFR 263.21 are used to denote the unit of measure.

ITEM 13: Waste Codes

Up to six Federal and State Waste Codes which describe each waste stream identified in Item 9b are entered in Item 13. State waste codes that are not redundant with federal codes must be entered here, in addition to the federal waste codes which are most representative of the properties of the waste.

ITEM 14: Special Handling Instructions and Additional Information

1. Generators special handling or shipment-specific information for proper management or tracking of the materials may be entered in this space.
2. Limited types of federally required information for which no specific space was provided on the manifest, including alternate facility designations; the manifest tracking number of the original manifest for rejected wastes and residues that are re-shipped under a second manifest; and the specification of PCB waste descriptions and PCB out of service dates required under 40 CFR 761.207 is entered in this space.

ITEM 15: Generator's Offerors Certifications

This item must have the generator's certification signature.

ITEM 16: International Shipments

The export box must be checked by the primary exporter. The point of exit (city and state) from the United States must be entered. The transporter must sign and date the manifest to indicate the date the shipment left the United States. The import box is checked and the point of entry (city and state) into the United States must be entered in this block.

ITEM 17: Transporters' Acknowledgements of Receipt

The name, signature, and date of acceptance of the person that accepted the waste (EQD Receiving Coordinator for waste being received at EQD) on behalf of the first transporter. If applicable, the name, signature, and date of acceptance of the person accepting the waste on behalf of the second transporter.

ITEM 18: Discrepancy

Item 18a: Discrepancy Indication Space:

1. The authorized representative of the designated facility (EQD, if the waste was received at EQD) must note any discrepancies between the waste described on the Manifest and the waste received at the facility. Manifest discrepancies are significant differences as defined by 40 CFR 264.72(b) and 265.72(b).
2. The appropriate box is checked for rejected loads or a regulated residue that cannot be removed from a container. The reason for the rejection or inability to remove a residue should be entered in this block, as well as the Manifest tracking number for any additional manifests being used to track the rejected waste or residue shipment. Indicate the original manifest tracking number in item 14, the Special Handling Block and Additional Information Block of the additional manifests.
3. A letter must be submitted to the Regional Director where owners or operators of facilities are in unauthorized States and where significant differences in quantity or type could not be resolved within 15 days.

Item 18b: Alternate Facility (or Generator) for Receipt of Full Load Rejections

The name, address, telephone number, and EPA ID number of the Generator or Alternate Facility which the rejecting TSDF has designated, after consulting with the generator, to receive a fully rejected waste shipment.

Item 18c: Alternate Facility (or Generator) Signature:

This block must contain the signature and date of the authorized representative of the Alternate Facility or Generator, acknowledging the receipt of the fully rejected wastes.

ITEM 19: Hazardous Waste Report Management Method Codes

The most appropriate Hazardous Waste Report Management Method Code that best describes the way in which the waste is to be managed when received by the TSDF (EQD, if the waste is received at EQD) for each waste listed in Item 9. The Hazardous Waste Report Management Code is entered by the first TSDF that receives the waste.

ITEM 20: Designated Facility Owner or Operator Certification of Receipt

The name, signature of the person who received the waste (EQD Receiving Coordinator) on behalf of the owner or operator and the date of the waste receipt or rejection is entered in this block.

MANIFEST CONTINUATION SHEET

This form must be used as the continuation sheet to the Manifest if:

- More than two transporters are used to transport the wastes; or
- More space is required for the U.S. DOT descriptions and related information in Item 9 of the Manifest.

ITEM 21: Generator's U.S. EPA ID Number.

The generator's U.S. EPA (EPA) twelve-digit identification number or State generator identification number if the generator site does not have an EPA Identification Number must be entered.

ITEM 22: Page 1 of _

Enter the page number of the Continuation Sheet

ITEM 23: Manifest Tracking Number

Enter the Manifest Tracking Number from Item 4 of the Manifest form.

ITEM 24: Generators Name -

The generator's name as it appears in Item 5 of the first page of the Manifest should be found in this block.

ITEM 25: Transporter - Company Name

Where more than two transporters are used to transport the waste described on the Manifest, the company name of each additional transporter, in the order in which they transported the waste along with the EQD ID number.

ITEM 26: Transporter Name

Where more than two transporters are used to transport the waste described on the Manifest, the company name of each additional transporter is found in this space.

ITEM 27: U.S. DOT Description Including Proper Shipping Name, Hazard Class, and ID Number (UN/NA)

The number under Item 27b corresponds to the order of waste codes from one continuation sheet to the next, to reflect the total number of wastes being shipped.

ITEM 28: Containers (No. and Type)

Refer to the instructions for Item 10 of the Manifest for the information that corresponds to this block.

ITEM 29: Total Quantity

Refer to the instructions for Item 11 of the Manifest for the information that corresponds to this block

ITEM 30: Units of Measure

Refer to the instructions for Item 12 of the Manifest for the information that corresponds to this block.

ITEM 31: Waste Codes

Refer to the instructions for Item 13 of the Manifest for the information that corresponds to this block.

ITEM 32: Special Handling Instructions and Additional Information

Refer to the instructions for Item 14 of the Manifest for the information that corresponds to this block.

ITEM 33: Transporter - Acknowledgement of Receipt of Materials

The number for the transporter as found in Item 25, as well as the name and signature of the person accepting the waste on behalf of the Transporter (Company Name), and the date of receipt is found in this block.

ITEM 34: Transporter - Acknowledgement of Receipt of Materials

The number for the transporter as found in Item 26, as well as the name and signature of the person accepting the waste on behalf of the Transporter (Company Name), and the date of receipt is found in this block.

ITEM 35: Discrepancy Indication Space

Refer to Item 18. This space may be used to describe information more fully on discrepancies identified in Item 18a of the manifest form.

ITEM 36: Hazardous Waste Report Management Method Codes

The sequential number that corresponds to the waste materials described in Item 27 and the appropriate process code that describes how the materials will be processed when received. If additional continuation sheets are attached, the waste materials and process codes will be entered sequentially.

Appendix M- 2: Land Disposal Restrictions

Land Disposal Restrictions

The basic components of the land disposal restrictions are relatively straightforward. For each hazardous waste, EPA must establish treatment standards that are protective of human health and the environment when the wastes are land disposed. Land disposal includes placement in a landfill, surface impoundment, waste pile, injection well, land treatment facility, salt dome or salt bed formation, underground mine or cave, or concrete vault or bunker.

The treatment standards either require the use of a one or more specified treatment technologies, or they require that waste be treated to meet certain concentration limits on hazardous constituents in any treatment residues cannot be higher than those obtained using BDAT. For example, incineration is the BDAT for many organic hazardous wastes. Incinerators typically produce two treatment residues, ash, and scrubber water. EPA analyzes the concentration of hazardous constituents in the ash and scrubber water when a particular waste is being burned, and then uses those concentrations as the treatment standards for the waste. In this case, one treatment standard for "non-wastewaters" is applied to the ash, and a different treatment standard for "wastewaters" is applied to the scrubber water. Although the use of incineration is not required, the treated wastes and/or treatment residues cannot be land disposed unless the concentration of hazardous constituents is equal to or less than the concentration limits (treatment standards) based on the use of incineration.

Once the BDAT has been identified for a particular waste, EPA next establishes an effective date for the land disposal restrictions based on the availability of the BDAT capacity. The capacity determination is made on a nationwide basis. No allowance is made for the fact that waste from a specific facility might have to be shipped all the way across the country to utilize the available capacity. If inadequate capacity exists to handle additional wastes subject to the land disposal restrictions, EPA can delay the effective date of the treatment standards for up to two years.

If a treatment standard has been established, and if the effective date has passed for a specific waste, that waste may only be land disposed if it meets the treatment standard or if an exemption or variance has been obtained.

Point of Determination

Even though the land disposal restrictions apply to the disposal of hazardous wastes, EPA has decided the point of generation must be used to determine if a waste is restricted. By evaluating a waste at the point of generation, subsequent dilution of waste to meet the concentration limits is prevented.

Alternatively, 268.7(a) allows the generator to use knowledge of the waste to determine if it is subject to the land disposal restrictions; however, documentation substantiating this determination must be kept in the generator's files.

One of the important aspects of the land disposal restrictions is that the toxicity characteristics leaching procedure (TCLP) must be used to test many wastes. This

procedure, which is codified as Appendix II of Part 261, was specifically designed for complex wastes containing volatile organics.

Because RCRA does not impose retroactive waste management requirements, wastes that were disposed in the past need not be exhumed for additional treatment. However, if a waste generated prior to the effective date of the land disposal restrictions is removed from a storage or disposal unit, it becomes subject to land disposal restrictions in effect at that time. Similarly, residues generated from such wastes, like leachate or contaminated groundwater, are viewed as newly generated wastes subject to regulations under RCRA and the land disposal restrictions.

Table A-1: Processes and Design Capacity to Treat, Store or Dispose of Hazardous Waste

R 299.9504(1)(b)

And

40 CFR 270.13(i)

Section XII of EGLE EQP5111

Also See Engineering Drawings

Table A-1: Process Design Capacity

Process Design Capacity - Treatment

Line Number	A. Process Code (from list)	1. Amount (specify)	2. Unit of Measure (enter code)	C. Process Total Number of Units	D. Description of Process
1	T01	900,000	U	22	Chemical Wastewater Treatment
2	T04	150	D	1	Pugmill
3	T04	20	U	2	Filter Press
4	T01	436,320	U	6	Chemical Fixation

Process Design Capacity - Storage

Line Number	A. Process Code (from list)	1. Amount (specify)		2. Unit of Measure (enter code)	C. Process Total Number of Units
1	S01	Rail Area	*	G	9
2	S01	Container Storage Area (Drum Warehouse)	*	G	1826
3	S01	Container Staging Area (Receiving Area)	*	G	988
4	S01	Corrosive Container Pad (Acid Room)	*	G	120
5	S01	Chemical Precipitation Container Pad (Chem Pre)	*	G	120
6	S01	North Container Storage Pad (North Pad)	*	G	1469
7	S01	Chemical Fixation Building (Chem Fix)	*	G	2365
8	S01	Depack Area	*	G	160
9	S01	DePack Drum Storage Pad	*	G	352
10	S01	H-1 (S-5)	**	G	1
11	S02	T-201	**	G	1
12	S02	T-202	**	G	1
13	S02	T-203	**	G	1
14	S02	T-204	**	G	1
15	S02	T-205	**	G	1
16	S02	T-206	**	G	1
17	S02	T-207	**	G	1
18	S02	T-208	**	G	1
19	S02	T-301	**	G	1
20	S02	T-302	**	G	1
21	S02	T-303	**	G	1
22	S02	T-304	**	G	1
23	S02	T-305	**	G	1
24	S02	T-306	**	G	1
25	S02	T-701	**	Y	1
26	S02	T-702	**	Y	1
27	S02	T-703	**	Y	1
28	S02	T-704	**	Y	1
29	S02	T-705	**	Y	1
30	S02	T-706	**	Y	1
31	S02	Clarifier	**	G	1

*See Section D, Table D-2, **See Section D, Table D-1

Table A-2: Hazardous Waste Types and Quantities

TO BE

TREATED, STORED OR DISPOSED AT THE FACILITY ANNUALLY AND PROCESSES USED FOR EACH

R 299.9504(1)(b)

And

40 CFR 270.13(j)

See Part XIII “Description of Hazardous Waste Types” of EGLE EQP5111 “Environmental Permits”

Section XIII: Description of Hazardous Wastes

LINE NO.	A. EPA HAZARDOUS WASTE CODE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	1. PROCESS CODES (enter code)				2. PROCESS DESCRIPTION (if no code entered in D.1)
1	D001	1,957,700	T	S01	S02	T01	T04	
2	D002	1,957,700	T	S01	S02	T01	T04	
3	D003	1,957,700	T	S01	S02	T01	T04	
4	D004	1,957,700	T	S01	S02	T01	T04	
5	D005	1,957,700	T	S01	S02	T01	T04	
6	D006	1,957,700	T	S01	S02	T01	T04	
7	D007	1,957,700	T	S01	S02	T01	T04	
8	D008	1,957,700	T	S01	S02	T01	T04	
9	D009	1,957,700	T	S01	S02	T01	T04	
10	D010	1,957,700	T	S01	S02	T01	T04	
11	D011	1,957,700	T	S01	S02	T01	T04	
12	D012	1,957,700	T	S01	S02	T01	T04	
13	D013	1,957,700	T	S01	S02	T01	T04	
14	D014	1,957,700	T	S01	S02	T01	T04	
15	D015	1,957,700	T	S01	S02	T01	T04	
16	D016	1,957,700	T	S01	S02	T01	T04	
17	D017	1,957,700	T	S01	S02	T01	T04	
18	D018	1,957,700	T	S01	S02	T01	T04	
19	D019	1,957,700	T	S01	S02	T01	T04	
20	D020	1,957,700	T	S01	S02	T01	T04	
21	D021	1,957,700	T	S01	S02	T01	T04	
22	D022	1,957,700	T	S01	S02	T01	T04	
23	D023	1,957,700	T	S01	S02	T01	T04	
24	D024	1,957,700	T	S01	S02	T01	T04	
25	D025	1,957,700	T	S01	S02	T01	T04	
26	D026	1,957,700	T	S01	S02	T01	T04	
27	D027	1,957,700	T	S01	S02	T01	T04	
28	D028	1,957,700	T	S01	S02	T01	T04	
29	D029	1,957,700	T	S01	S02	T01	T04	
30	D030	1,957,700	T	S01	S02	T01	T04	
31	D031	1,957,700	T	S01	S02	T01	T04	
32	D032	1,957,700	T	S01	S02	T01	T04	
33	D033	1,957,700	T	S01	S02	T01	T04	
34	D034	1,957,700	T	S01	S02	T01	T04	
35	D035	1,957,700	T	S01	S02	T01	T04	
36	D036	1,957,700	T	S01	S02	T01	T04	
37	D037	1,957,700	T	S01	S02	T01	T04	
38	D038	1,957,700	T	S01	S02	T01	T04	
39	D039	1,957,700	T	S01	S02	T01	T04	
40	D040	1,957,700	T	S01	S02	T01	T04	
41	D041	1,957,700	T	S01	S02	T01	T04	
42	D042	1,957,700	T	S01	S02	T01	T04	
43	D043	1,957,700	T	S01	S02	T01	T04	
44	F001	1,957,700	T	S01	S02	T01	T04	
45	F002	1,957,700	T	S01	S02	T01	T04	
46	F003	1,957,700	T	S01	S02	T01	T04	
47	F004	1,957,700	T	S01	S02	T01	T04	
48	F005	1,957,700	T	S01	S02	T01	T04	
49	F006	1,957,700	T	S01	S02	T01	T04	
50	F007	1,957,700	T	S01	S02	T01	T04	
51	F008	1,957,700	T	S01	S02	T01	T04	
52	F009	1,957,700	T	S01	S02	T01	T04	
53	F010	1,957,700	T	S01	S02	T01	T04	
54	F011	1,957,700	T	S01	S02	T01	T04	
55	F012	1,957,700	T	S01	S02	T01	T04	
56	F019	1,957,700	T	S01	S02	T01	T04	
57	F020	1,957,700	T	S01	S02	T01	T04	
58	F021	1,957,700	T	S01	S02	T01	T04	
59	F022	1,957,700	T	S01	S02	T01	T04	
60	F023	1,957,700	T	S01	S02	T01	T04	
61	F024	1,957,700	T	S01	S02	T01	T04	
62	F025	1,957,700	T	S01	S02	T01	T04	
63	F026	1,957,700	T	S01	S02	T01	T04	

LINE NO.	A. EPA HAZARDOUS WASTE CODE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	1. PROCESS CODES (enter code)				2. PROCESS DESCRIPTION (if no code entered in D.1)
64	F027	1,957,700	T	S01	S02	T01	T04	
65	F028	1,957,700	T	S01	S02	T01	T04	
66	F032	1,957,700	T	S01	S02	T01	T04	
67	F034	1,957,700	T	S01	S02	T01	T04	
68	F035	1,957,700	T	S01	S02	T01	T04	
69	F037	1,957,700	T	S01	S02	T01	T04	
70	F038	1,957,700	T	S01	S02	T01	T04	
71	F039	1,957,700	T	S01	S02	T01	T04	
72	K001	1,957,700	T	S01	S02	T01	T04	
73	K002	1,957,700	T	S01	S02	T01	T04	
74	K003	1,957,700	T	S01	S02	T01	T04	
75	K004	1,957,700	T	S01	S02	T01	T04	
76	K005	1,957,700	T	S01	S02	T01	T04	
77	K006	1,957,700	T	S01	S02	T01	T04	
78	K007	1,957,700	T	S01	S02	T01	T04	
79	K008	1,957,700	T	S01	S02	T01	T04	
80	K009	1,957,700	T	S01	S02	T01	T04	
81	K010	1,957,700	T	S01	S02	T01	T04	
82	K011	1,957,700	T	S01	S02	T01	T04	
83	K013	1,957,700	T	S01	S02	T01	T04	
84	K014	1,957,700	T	S01	S02	T01	T04	
85	K015	1,957,700	T	S01	S02	T01	T04	
86	K016	1,957,700	T	S01	S02	T01	T04	
87	K017	1,957,700	T	S01	S02	T01	T04	
88	K018	1,957,700	T	S01	S02	T01	T04	
89	K019	1,957,700	T	S01	S02	T01	T04	
90	K020	1,957,700	T	S01	S02	T01	T04	
91	K021	1,957,700	T	S01	S02	T01	T04	
92	K022	1,957,700	T	S01	S02	T01	T04	
93	K023	1,957,700	T	S01	S02	T01	T04	
94	K024	1,957,700	T	S01	S02	T01	T04	
95	K025	1,957,700	T	S01	S02	T01	T04	
96	K026	1,957,700	T	S01	S02	T01	T04	
97	K027	1,957,700	T	S01	S02	T01	T04	
98	K028	1,957,700	T	S01	S02	T01	T04	
99	K029	1,957,700	T	S01	S02	T01	T04	
100	K030	1,957,700	T	S01	S02	T01	T04	
101	K031	1,957,700	T	S01	S02	T01	T04	
102	K032	1,957,700	T	S01	S02	T01	T04	
103	K033	1,957,700	T	S01	S02	T01	T04	
104	K034	1,957,700	T	S01	S02	T01	T04	
105	K035	1,957,700	T	S01	S02	T01	T04	
106	K036	1,957,700	T	S01	S02	T01	T04	
107	K037	1,957,700	T	S01	S02	T01	T04	
108	K038	1,957,700	T	S01	S02	T01	T04	
109	K039	1,957,700	T	S01	S02	T01	T04	
110	K040	1,957,700	T	S01	S02	T01	T04	
111	K041	1,957,700	T	S01	S02	T01	T04	
112	K042	1,957,700	T	S01	S02	T01	T04	
113	K043	1,957,700	T	S01	S02	T01	T04	
114	K044	1,957,700	T	S01	S02	T01	T04	
115	K045	1,957,700	T	S01	S02	T01	T04	
116	K046	1,957,700	T	S01	S02	T01	T04	
117	K047	1,957,700	T	S01	S02	T01	T04	
118	K048	1,957,700	T	S01	S02	T01	T04	
119	K049	1,957,700	T	S01	S02	T01	T04	
120	K050	1,957,700	T	S01	S02	T01	T04	
121	K051	1,957,700	T	S01	S02	T01	T04	
122	K052	1,957,700	T	S01	S02	T01	T04	
123	K060	1,957,700	T	S01	S02	T01	T04	
124	K061	1,957,700	T	S01	S02	T01	T04	
125	K062	1,957,700	T	S01	S02	T01	T04	
126	K069	1,957,700	T	S01	S02	T01	T04	

LINE NO.	A. EPA HAZARDOUS WASTE CODE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	1. PROCESS CODES (enter code)				2. PROCESS DESCRIPTION (If no code entered in D.1)
127	K071	1,957,700	T	S01	S02	T01	T04	
128	K073	1,957,700	T	S01	S02	T01	T04	
129	K076	1,957,700	T	S01	S02	T01	T04	
130	K077	1,957,700	T	S01	S02	T01	T04	
131	K078	1,957,700	T	S01	S02	T01	T04	
132	K083	1,957,700	T	S01	S02	T01	T04	
133	K084	1,957,700	T	S01	S02	T01	T04	
134	K085	1,957,700	T	S01	S02	T01	T04	
135	K086	1,957,700	T	S01	S02	T01	T04	
136	K087	1,957,700	T	S01	S02	T01	T04	
137	K088	1,957,700	T	S01	S02	T01	T04	
138	K093	1,957,700	T	S01	S02	T01	T04	
139	K094	1,957,700	T	S01	S02	T01	T04	
140	K095	1,957,700	T	S01	S02	T01	T04	
141	K096	1,957,700	T	S01	S02	T01	T04	
142	K097	1,957,700	T	S01	S02	T01	T04	
143	K098	1,957,700	T	S01	S02	T01	T04	
144	K099	1,957,700	T	S01	S02	T01	T04	
145	K100	1,957,700	T	S01	S02	T01	T04	
146	K101	1,957,700	T	S01	S02	T01	T04	
147	K102	1,957,700	T	S01	S02	T01	T04	
148	K103	1,957,700	T	S01	S02	T01	T04	
149	K104	1,957,700	T	S01	S02	T01	T04	
150	K105	1,957,700	T	S01	S02	T01	T04	
151	K106	1,957,700	T	S01	S02	T01	T04	
152	K107	1,957,700	T	S01	S02	T01	T04	
153	K108	1,957,700	T	S01	S02	T01	T04	
154	K109	1,957,700	T	S01	S02	T01	T04	
155	K110	1,957,700	T	S01	S02	T01	T04	
156	K111	1,957,700	T	S01	S02	T01	T04	
157	K112	1,957,700	T	S01	S02	T01	T04	
158	K113	1,957,700	T	S01	S02	T01	T04	
159	K114	1,957,700	T	S01	S02	T01	T04	
160	K115	1,957,700	T	S01	S02	T01	T04	
161	K116	1,957,700	T	S01	S02	T01	T04	
162	K117	1,957,700	T	S01	S02	T01	T04	
163	K118	1,957,700	T	S01	S02	T01	T04	
164	K123	1,957,700	T	S01	S02	T01	T04	
165	K124	1,957,700	T	S01	S02	T01	T04	
166	K125	1,957,700	T	S01	S02	T01	T04	
167	K126	1,957,700	T	S01	S02	T01	T04	
168	K131	1,957,700	T	S01	S02	T01	T04	
169	K132	1,957,700	T	S01	S02	T01	T04	
170	K136	1,957,700	T	S01	S02	T01	T04	
171	K141	1,957,700	T	S01	S02	T01	T04	
172	K142	1,957,700	T	S01	S02	T01	T04	
173	K143	1,957,700	T	S01	S02	T01	T04	
174	K144	1,957,700	T	S01	S02	T01	T04	
175	K145	1,957,700	T	S01	S02	T01	T04	
176	K147	1,957,700	T	S01	S02	T01	T04	
177	K148	1,957,700	T	S01	S02	T01	T04	
178	K149	1,957,700	T	S01	S02	T01	T04	
179	K150	1,957,700	T	S01	S02	T01	T04	
180	K151	1,957,700	T	S01	S02	T01	T04	
181	K156	1,957,700	T	S01	S02	T01	T04	
182	K157	1,957,700	T	S01	S02	T01	T04	
183	K158	1,957,700	T	S01	S02	T01	T04	
184	K159	1,957,700	T	S01	S02	T01	T04	
185	K161	1,957,700	T	S01	S02	T01	T04	
186	K169	1,957,700	T	S01	S02	T01	T04	
187	K170	1,957,700	T	S01	S02	T01	T04	
188	K171	1,957,700	T	S01	S02	T01	T04	
189	K172	1,957,700	T	S01	S02	T01	T04	

LINE NO.	A. EPA HAZARDOUS WASTE CODE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	1. PROCESS CODES (enter code)				2. PROCESS DESCRIPTION (if no code entered in D.1)
190	K174	1,957,700	T	S01	S02	T01	T04	
191	K175	1,957,700	T	S01	S02	T01	T04	
192	K176	1,957,700	T	S01	S02	T01	T04	
193	K177	1,957,700	T	S01	S02	T01	T04	
194	K181	1,957,700	T	S01	S02	T01	T04	
195	K178	1,957,700	T	S01	S02	T01	T04	
196	P001	1,957,700	T	S01	S02	T01	T04	
197	P002	1,957,700	T	S01	S02	T01	T04	
198	P003	1,957,700	T	S01	S02	T01	T04	
199	P004	1,957,700	T	S01	S02	T01	T04	
200	P005	1,957,700	T	S01	S02	T01	T04	
201	P006	1,957,700	T	S01	S02	T01	T04	
202	P007	1,957,700	T	S01	S02	T01	T04	
203	P008	1,957,700	T	S01	S02	T01	T04	
204	P009	1,957,700	T	S01	S02	T01	T04	
205	P010	1,957,700	T	S01	S02	T01	T04	
206	P011	1,957,700	T	S01	S02	T01	T04	
207	P012	1,957,700	T	S01	S02	T01	T04	
208	P013	1,957,700	T	S01	S02	T01	T04	
209	P014	1,957,700	T	S01	S02	T01	T04	
210	P015	1,957,700	T	S01	S02	T01	T04	
211	P016	1,957,700	T	S01	S02	T01	T04	
212	P017	1,957,700	T	S01	S02	T01	T04	
213	P018	1,957,700	T	S01	S02	T01	T04	
214	P020	1,957,700	T	S01	S02	T01	T04	
215	P021	1,957,700	T	S01	S02	T01	T04	
216	P022	1,957,700	T	S01	S02	T01	T04	
217	P023	1,957,700	T	S01	S02	T01	T04	
218	P024	1,957,700	T	S01	S02	T01	T04	
219	P026	1,957,700	T	S01	S02	T01	T04	
220	P027	1,957,700	T	S01	S02	T01	T04	
221	P028	1,957,700	T	S01	S02	T01	T04	
222	P029	1,957,700	T	S01	S02	T01	T04	
223	P030	1,957,700	T	S01	S02	T01	T04	
224	P031	1,957,700	T	S01	S02	T01	T04	
225	P033	1,957,700	T	S01	S02	T01	T04	
226	P034	1,957,700	T	S01	S02	T01	T04	
227	P036	1,957,700	T	S01	S02	T01	T04	
228	P037	1,957,700	T	S01	S02	T01	T04	
229	P038	1,957,700	T	S01	S02	T01	T04	
230	P039	1,957,700	T	S01	S02	T01	T04	
231	P040	1,957,700	T	S01	S02	T01	T04	
232	P041	1,957,700	T	S01	S02	T01	T04	
233	P042	1,957,700	T	S01	S02	T01	T04	
234	P043	1,957,700	T	S01	S02	T01	T04	
235	P044	1,957,700	T	S01	S02	T01	T04	
236	P045	1,957,700	T	S01	S02	T01	T04	
237	P046	1,957,700	T	S01	S02	T01	T04	
238	P047	1,957,700	T	S01	S02	T01	T04	
239	P048	1,957,700	T	S01	S02	T01	T04	
240	P049	1,957,700	T	S01	S02	T01	T04	
241	P050	1,957,700	T	S01	S02	T01	T04	
242	P051	1,957,700	T	S01	S02	T01	T04	
243	P054	1,957,700	T	S01	S02	T01	T04	
244	P056	1,957,700	T	S01	S02	T01	T04	
245	P057	1,957,700	T	S01	S02	T01	T04	
246	P058	1,957,700	T	S01	S02	T01	T04	
247	P059	1,957,700	T	S01	S02	T01	T04	
248	P060	1,957,700	T	S01	S02	T01	T04	
249	P062	1,957,700	T	S01	S02	T01	T04	
250	P063	1,957,700	T	S01	S02	T01	T04	
251	P064	1,957,700	T	S01	S02	T01	T04	
252	P065	1,957,700	T	S01	S02	T01	T04	

LINE NO.	A. EPA HAZARDOUS WASTE CODE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	1. PROCESS CODES (enter code)				2. PROCESS DESCRIPTION (if no code entered in D.1)
253	P066	1,957,700	T	S01	S02	T01	T04	
254	P067	1,957,700	T	S01	S02	T01	T04	
255	P068	1,957,700	T	S01	S02	T01	T04	
256	P069	1,957,700	T	S01	S02	T01	T04	
257	P070	1,957,700	T	S01	S02	T01	T04	
258	P071	1,957,700	T	S01	S02	T01	T04	
259	P072	1,957,700	T	S01	S02	T01	T04	
260	P073	1,957,700	T	S01	S02	T01	T04	
261	P074	1,957,700	T	S01	S02	T01	T04	
262	P075	1,957,700	T	S01	S02	T01	T04	
263	P076	1,957,700	T	S01	S02	T01	T04	
264	P077	1,957,700	T	S01	S02	T01	T04	
265	P078	1,957,700	T	S01	S02	T01	T04	
266	P081	1,957,700	T	S01	S02	T01	T04	
267	P082	1,957,700	T	S01	S02	T01	T04	
268	P084	1,957,700	T	S01	S02	T01	T04	
269	P085	1,957,700	T	S01	S02	T01	T04	
270	P087	1,957,700	T	S01	S02	T01	T04	
271	P088	1,957,700	T	S01	S02	T01	T04	
272	P089	1,957,700	T	S01	S02	T01	T04	
273	P092	1,957,700	T	S01	S02	T01	T04	
274	P093	1,957,700	T	S01	S02	T01	T04	
275	P094	1,957,700	T	S01	S02	T01	T04	
276	P095	1,957,700	T	S01	S02	T01	T04	
277	P096	1,957,700	T	S01	S02	T01	T04	
278	P097	1,957,700	T	S01	S02	T01	T04	
279	P098	1,957,700	T	S01	S02	T01	T04	
280	P099	1,957,700	T	S01	S02	T01	T04	
281	P101	1,957,700	T	S01	S02	T01	T04	
282	P102	1,957,700	T	S01	S02	T01	T04	
283	P103	1,957,700	T	S01	S02	T01	T04	
284	P104	1,957,700	T	S01	S02	T01	T04	
285	P105	1,957,700	T	S01	S02	T01	T04	
286	P106	1,957,700	T	S01	S02	T01	T04	
287	P108	1,957,700	T	S01	S02	T01	T04	
288	P109	1,957,700	T	S01	S02	T01	T04	
289	P110	1,957,700	T	S01	S02	T01	T04	
290	P111	1,957,700	T	S01	S02	T01	T04	
291	P112	1,957,700	T	S01	S02	T01	T04	
292	P113	1,957,700	T	S01	S02	T01	T04	
293	P114	1,957,700	T	S01	S02	T01	T04	
294	P115	1,957,700	T	S01	S02	T01	T04	
295	P116	1,957,700	T	S01	S02	T01	T04	
296	P118	1,957,700	T	S01	S02	T01	T04	
297	P119	1,957,700	T	S01	S02	T01	T04	
298	P120	1,957,700	T	S01	S02	T01	T04	
299	P121	1,957,700	T	S01	S02	T01	T04	
300	P122	1,957,700	T	S01	S02	T01	T04	
301	P123	1,957,700	T	S01	S02	T01	T04	
302	P127	1,957,700	T	S01	S02	T01	T04	
303	P128	1,957,700	T	S01	S02	T01	T04	
304	P185	1,957,700	T	S01	S02	T01	T04	
305	P188	1,957,700	T	S01	S02	T01	T04	
306	P189	1,957,700	T	S01	S02	T01	T04	
307	P190	1,957,700	T	S01	S02	T01	T04	
308	P191	1,957,700	T	S01	S02	T01	T04	
309	P192	1,957,700	T	S01	S02	T01	T04	
310	P194	1,957,700	T	S01	S02	T01	T04	
311	P196	1,957,700	T	S01	S02	T01	T04	
312	P197	1,957,700	T	S01	S02	T01	T04	
313	P198	1,957,700	T	S01	S02	T01	T04	
314	P199	1,957,700	T	S01	S02	T01	T04	
315	P201	1,957,700	T	S01	S02	T01	T04	

LINE NO.	A. EPA HAZARDOUS WASTE CODE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	1. PROCESS CODES (enter code)				2. PROCESS DESCRIPTION (if no code entered in D.1)
316	P202	1,957,700	T	S01	S02	T01	T04	
317	P203	1,957,700	T	S01	S02	T01	T04	
318	P204	1,957,700	T	S01	S02	T01	T04	
319	P205	1,957,700	T	S01	S02	T01	T04	
320	U001	1,957,700	T	S01	S02	T01	T04	
321	U002	1,957,700	T	S01	S02	T01	T04	
322	U003	1,957,700	T	S01	S02	T01	T04	
323	U004	1,957,700	T	S01	S02	T01	T04	
324	U005	1,957,700	T	S01	S02	T01	T04	
325	U006	1,957,700	T	S01	S02	T01	T04	
326	U007	1,957,700	T	S01	S02	T01	T04	
327	U008	1,957,700	T	S01	S02	T01	T04	
328	U009	1,957,700	T	S01	S02	T01	T04	
329	U010	1,957,700	T	S01	S02	T01	T04	
330	U011	1,957,700	T	S01	S02	T01	T04	
331	U012	1,957,700	T	S01	S02	T01	T04	
332	U014	1,957,700	T	S01	S02	T01	T04	
333	U015	1,957,700	T	S01	S02	T01	T04	
334	U016	1,957,700	T	S01	S02	T01	T04	
335	U017	1,957,700	T	S01	S02	T01	T04	
336	U018	1,957,700	T	S01	S02	T01	T04	
337	U019	1,957,700	T	S01	S02	T01	T04	
338	U020	1,957,700	T	S01	S02	T01	T04	
339	U021	1,957,700	T	S01	S02	T01	T04	
340	U022	1,957,700	T	S01	S02	T01	T04	
341	U023	1,957,700	T	S01	S02	T01	T04	
342	U024	1,957,700	T	S01	S02	T01	T04	
343	U025	1,957,700	T	S01	S02	T01	T04	
344	U026	1,957,700	T	S01	S02	T01	T04	
345	U027	1,957,700	T	S01	S02	T01	T04	
346	U028	1,957,700	T	S01	S02	T01	T04	
347	U029	1,957,700	T	S01	S02	T01	T04	
348	U030	1,957,700	T	S01	S02	T01	T04	
349	U031	1,957,700	T	S01	S02	T01	T04	
350	U032	1,957,700	T	S01	S02	T01	T04	
351	U033	1,957,700	T	S01	S02	T01	T04	
352	U034	1,957,700	T	S01	S02	T01	T04	
353	U035	1,957,700	T	S01	S02	T01	T04	
354	U036	1,957,700	T	S01	S02	T01	T04	
355	U037	1,957,700	T	S01	S02	T01	T04	
356	U038	1,957,700	T	S01	S02	T01	T04	
357	U039	1,957,700	T	S01	S02	T01	T04	
358	U041	1,957,700	T	S01	S02	T01	T04	
359	U042	1,957,700	T	S01	S02	T01	T04	
360	U043	1,957,700	T	S01	S02	T01	T04	
361	U044	1,957,700	T	S01	S02	T01	T04	
362	U045	1,957,700	T	S01	S02	T01	T04	
363	U046	1,957,700	T	S01	S02	T01	T04	
364	U047	1,957,700	T	S01	S02	T01	T04	
365	U048	1,957,700	T	S01	S02	T01	T04	
366	U049	1,957,700	T	S01	S02	T01	T04	
367	U050	1,957,700	T	S01	S02	T01	T04	
368	U051	1,957,700	T	S01	S02	T01	T04	
369	U052	1,957,700	T	S01	S02	T01	T04	
370	U053	1,957,700	T	S01	S02	T01	T04	
371	U055	1,957,700	T	S01	S02	T01	T04	
372	U056	1,957,700	T	S01	S02	T01	T04	
373	U057	1,957,700	T	S01	S02	T01	T04	
374	U058	1,957,700	T	S01	S02	T01	T04	
375	U059	1,957,700	T	S01	S02	T01	T04	
376	U060	1,957,700	T	S01	S02	T01	T04	
377	U061	1,957,700	T	S01	S02	T01	T04	
378	U062	1,957,700	T	S01	S02	T01	T04	

LINE NO.	A. EPA HAZARDOUS WASTE CODE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	1. PROCESS CODES (enter code)				2. PROCESS DESCRIPTION (if no code entered in D.1)
379	U063	1,957,700	T	S01	S02	T01	T04	
380	U064	1,957,700	T	S01	S02	T01	T04	
381	U066	1,957,700	T	S01	S02	T01	T04	
382	U067	1,957,700	T	S01	S02	T01	T04	
383	U068	1,957,700	T	S01	S02	T01	T04	
384	U069	1,957,700	T	S01	S02	T01	T04	
385	U070	1,957,700	T	S01	S02	T01	T04	
386	U071	1,957,700	T	S01	S02	T01	T04	
387	U072	1,957,700	T	S01	S02	T01	T04	
388	U073	1,957,700	T	S01	S02	T01	T04	
389	U074	1,957,700	T	S01	S02	T01	T04	
390	U075	1,957,700	T	S01	S02	T01	T04	
391	U076	1,957,700	T	S01	S02	T01	T04	
392	U077	1,957,700	T	S01	S02	T01	T04	
393	U078	1,957,700	T	S01	S02	T01	T04	
394	U079	1,957,700	T	S01	S02	T01	T04	
395	U080	1,957,700	T	S01	S02	T01	T04	
396	U081	1,957,700	T	S01	S02	T01	T04	
397	U082	1,957,700	T	S01	S02	T01	T04	
398	U083	1,957,700	T	S01	S02	T01	T04	
399	U084	1,957,700	T	S01	S02	T01	T04	
400	U085	1,957,700	T	S01	S02	T01	T04	
401	U086	1,957,700	T	S01	S02	T01	T04	
402	U087	1,957,700	T	S01	S02	T01	T04	
403	U088	1,957,700	T	S01	S02	T01	T04	
404	U089	1,957,700	T	S01	S02	T01	T04	
405	U090	1,957,700	T	S01	S02	T01	T04	
406	U091	1,957,700	T	S01	S02	T01	T04	
407	U092	1,957,700	T	S01	S02	T01	T04	
408	U093	1,957,700	T	S01	S02	T01	T04	
409	U094	1,957,700	T	S01	S02	T01	T04	
410	U095	1,957,700	T	S01	S02	T01	T04	
411	U096	1,957,700	T	S01	S02	T01	T04	
412	U097	1,957,700	T	S01	S02	T01	T04	
413	U098	1,957,700	T	S01	S02	T01	T04	
414	U099	1,957,700	T	S01	S02	T01	T04	
415	U101	1,957,700	T	S01	S02	T01	T04	
416	U102	1,957,700	T	S01	S02	T01	T04	
417	U103	1,957,700	T	S01	S02	T01	T04	
418	U105	1,957,700	T	S01	S02	T01	T04	
419	U106	1,957,700	T	S01	S02	T01	T04	
420	U107	1,957,700	T	S01	S02	T01	T04	
421	U108	1,957,700	T	S01	S02	T01	T04	
422	U109	1,957,700	T	S01	S02	T01	T04	
423	U110	1,957,700	T	S01	S02	T01	T04	
424	U111	1,957,700	T	S01	S02	T01	T04	
425	U112	1,957,700	T	S01	S02	T01	T04	
426	U113	1,957,700	T	S01	S02	T01	T04	
427	U114	1,957,700	T	S01	S02	T01	T04	
428	U115	1,957,700	T	S01	S02	T01	T04	
429	U116	1,957,700	T	S01	S02	T01	T04	
430	U117	1,957,700	T	S01	S02	T01	T04	
431	U118	1,957,700	T	S01	S02	T01	T04	
432	U119	1,957,700	T	S01	S02	T01	T04	
433	U120	1,957,700	T	S01	S02	T01	T04	
434	U121	1,957,700	T	S01	S02	T01	T04	
435	U122	1,957,700	T	S01	S02	T01	T04	
436	U123	1,957,700	T	S01	S02	T01	T04	
437	U124	1,957,700	T	S01	S02	T01	T04	
438	U125	1,957,700	T	S01	S02	T01	T04	
439	U126	1,957,700	T	S01	S02	T01	T04	
440	U127	1,957,700	T	S01	S02	T01	T04	
441	U128	1,957,700	T	S01	S02	T01	T04	

LINE NO.	A. EPA HAZARDOUS WASTE CODE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	1. PROCESS CODES (enter code)				2. PROCESS DESCRIPTION (if no code entered in D.1)
442	U129	1,957,700	T	S01	S02	T01	T04	
443	U130	1,957,700	T	S01	S02	T01	T04	
444	U131	1,957,700	T	S01	S02	T01	T04	
445	U132	1,957,700	T	S01	S02	T01	T04	
446	U133	1,957,700	T	S01	S02	T01	T04	
447	U134	1,957,700	T	S01	S02	T01	T04	
448	U135	1,957,700	T	S01	S02	T01	T04	
449	U136	1,957,700	T	S01	S02	T01	T04	
450	U137	1,957,700	T	S01	S02	T01	T04	
451	U138	1,957,700	T	S01	S02	T01	T04	
452	U140	1,957,700	T	S01	S02	T01	T04	
453	U141	1,957,700	T	S01	S02	T01	T04	
454	U142	1,957,700	T	S01	S02	T01	T04	
455	U143	1,957,700	T	S01	S02	T01	T04	
456	U144	1,957,700	T	S01	S02	T01	T04	
457	U145	1,957,700	T	S01	S02	T01	T04	
458	U146	1,957,700	T	S01	S02	T01	T04	
459	U147	1,957,700	T	S01	S02	T01	T04	
460	U148	1,957,700	T	S01	S02	T01	T04	
461	U149	1,957,700	T	S01	S02	T01	T04	
462	U150	1,957,700	T	S01	S02	T01	T04	
463	U151	1,957,700	T	S01	S02	T01	T04	
464	U152	1,957,700	T	S01	S02	T01	T04	
465	U153	1,957,700	T	S01	S02	T01	T04	
466	U154	1,957,700	T	S01	S02	T01	T04	
467	U155	1,957,700	T	S01	S02	T01	T04	
468	U156	1,957,700	T	S01	S02	T01	T04	
469	U157	1,957,700	T	S01	S02	T01	T04	
470	U158	1,957,700	T	S01	S02	T01	T04	
471	U159	1,957,700	T	S01	S02	T01	T04	
472	U160	1,957,700	T	S01	S02	T01	T04	
473	U161	1,957,700	T	S01	S02	T01	T04	
474	U162	1,957,700	T	S01	S02	T01	T04	
475	U163	1,957,700	T	S01	S02	T01	T04	
476	U164	1,957,700	T	S01	S02	T01	T04	
477	U165	1,957,700	T	S01	S02	T01	T04	
478	U166	1,957,700	T	S01	S02	T01	T04	
479	U167	1,957,700	T	S01	S02	T01	T04	
480	U168	1,957,700	T	S01	S02	T01	T04	
481	U169	1,957,700	T	S01	S02	T01	T04	
482	U170	1,957,700	T	S01	S02	T01	T04	
483	U171	1,957,700	T	S01	S02	T01	T04	
484	U172	1,957,700	T	S01	S02	T01	T04	
485	U173	1,957,700	T	S01	S02	T01	T04	
486	U174	1,957,700	T	S01	S02	T01	T04	
487	U176	1,957,700	T	S01	S02	T01	T04	
488	U177	1,957,700	T	S01	S02	T01	T04	
489	U178	1,957,700	T	S01	S02	T01	T04	
490	U179	1,957,700	T	S01	S02	T01	T04	
491	U180	1,957,700	T	S01	S02	T01	T04	
492	U181	1,957,700	T	S01	S02	T01	T04	
493	U182	1,957,700	T	S01	S02	T01	T04	
494	U183	1,957,700	T	S01	S02	T01	T04	
495	U184	1,957,700	T	S01	S02	T01	T04	
496	U185	1,957,700	T	S01	S02	T01	T04	
497	U186	1,957,700	T	S01	S02	T01	T04	
498	U187	1,957,700	T	S01	S02	T01	T04	
499	U188	1,957,700	T	S01	S02	T01	T04	
500	U189	1,957,700	T	S01	S02	T01	T04	
501	U190	1,957,700	T	S01	S02	T01	T04	
502	U191	1,957,700	T	S01	S02	T01	T04	
503	U192	1,957,700	T	S01	S02	T01	T04	
504	U193	1,957,700	T	S01	S02	T01	T04	

LINE NO.	A. EPA HAZARDOUS WASTE CODE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	1. PROCESS CODES (enter code)				2. PROCESS DESCRIPTION (if no code entered in D.1)
505	U194	1,957,700	T	S01	S02	T01	T04	
506	U196	1,957,700	T	S01	S02	T01	T04	
507	U197	1,957,700	T	S01	S02	T01	T04	
508	U200	1,957,700	T	S01	S02	T01	T04	
509	U201	1,957,700	T	S01	S02	T01	T04	
510	U202	1,957,700	T	S01	S02	T01	T04	
511	U203	1,957,700	T	S01	S02	T01	T04	
512	U204	1,957,700	T	S01	S02	T01	T04	
513	U205	1,957,700	T	S01	S02	T01	T04	
514	U206	1,957,700	T	S01	S02	T01	T04	
515	U207	1,957,700	T	S01	S02	T01	T04	
516	U208	1,957,700	T	S01	S02	T01	T04	
517	U209	1,957,700	T	S01	S02	T01	T04	
518	U210	1,957,700	T	S01	S02	T01	T04	
519	U211	1,957,700	T	S01	S02	T01	T04	
520	U213	1,957,700	T	S01	S02	T01	T04	
521	U214	1,957,700	T	S01	S02	T01	T04	
522	U215	1,957,700	T	S01	S02	T01	T04	
523	U216	1,957,700	T	S01	S02	T01	T04	
524	U217	1,957,700	T	S01	S02	T01	T04	
525	U218	1,957,700	T	S01	S02	T01	T04	
526	U219	1,957,700	T	S01	S02	T01	T04	
527	U220	1,957,700	T	S01	S02	T01	T04	
528	U221	1,957,700	T	S01	S02	T01	T04	
529	U222	1,957,700	T	S01	S02	T01	T04	
530	U223	1,957,700	T	S01	S02	T01	T04	
531	U225	1,957,700	T	S01	S02	T01	T04	
532	U226	1,957,700	T	S01	S02	T01	T04	
533	U227	1,957,700	T	S01	S02	T01	T04	
534	U228	1,957,700	T	S01	S02	T01	T04	
535	U234	1,957,700	T	S01	S02	T01	T04	
536	U235	1,957,700	T	S01	S02	T01	T04	
537	U236	1,957,700	T	S01	S02	T01	T04	
538	U237	1,957,700	T	S01	S02	T01	T04	
539	U238	1,957,700	T	S01	S02	T01	T04	
540	U239	1,957,700	T	S01	S02	T01	T04	
541	U240	1,957,700	T	S01	S02	T01	T04	
542	U243	1,957,700	T	S01	S02	T01	T04	
543	U244	1,957,700	T	S01	S02	T01	T04	
544	U246	1,957,700	T	S01	S02	T01	T04	
545	U247	1,957,700	T	S01	S02	T01	T04	
546	U248	1,957,700	T	S01	S02	T01	T04	
547	U249	1,957,700	T	S01	S02	T01	T04	
548	U271	1,957,700	T	S01	S02	T01	T04	
549	U278	1,957,700	T	S01	S02	T01	T04	
550	U279	1,957,700	T	S01	S02	T01	T04	
551	U280	1,957,700	T	S01	S02	T01	T04	
552	U328	1,957,700	T	S01	S02	T01	T04	
553	U353	1,957,700	T	S01	S02	T01	T04	
554	U359	1,957,700	T	S01	S02	T01	T04	
555	U364	1,957,700	T	S01	S02	T01	T04	
556	U367	1,957,700	T	S01	S02	T01	T04	
557	U372	1,957,700	T	S01	S02	T01	T04	
558	U373	1,957,700	T	S01	S02	T01	T04	
559	U387	1,957,700	T	S01	S02	T01	T04	
560	U389	1,957,700	T	S01	S02	T01	T04	
561	U394	1,957,700	T	S01	S02	T01	T04	
562	U395	1,957,700	T	S01	S02	T01	T04	
563	U404	1,957,700	T	S01	S02	T01	T04	
564	U409	1,957,700	T	S01	S02	T01	T04	
565	U410	1,957,700	T	S01	S02	T01	T04	
566	U411	1,957,700	T	S01	S02	T01	T04	
567	001K	1,957,700	T	S01	S02	T01	T04	

LINE NO.	A. EPA HAZARDOUS WASTE CODE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	1. PROCESS CODES (enter code)				2. PROCESS DESCRIPTION (if no code entered in D.1)
568	002K	1,957,700	T	S01	S02	T01	T04	
569	001U	1,957,700	T	S01	S02	T01	T04	
570	002U	1,957,700	T	S01	S02	T01	T04	
571	003U	1,957,700	T	S01	S02	T01	T04	
572	004U	1,957,700	T	S01	S02	T01	T04	
573	005U	1,957,700	T	S01	S02	T01	T04	
574	006U	1,957,700	T	S01	S02	T01	T04	
575	007U	1,957,700	T	S01	S02	T01	T04	
576	008U	1,957,700	T	S01	S02	T01	T04	
577	009U	1,957,700	T	S01	S02	T01	T04	
578	011U	1,957,700	T	S01	S02	T01	T04	
579	012U	1,957,700	T	S01	S02	T01	T04	
580	013U	1,957,700	T	S01	S02	T01	T04	
581	014U	1,957,700	T	S01	S02	T01	T04	
582	015U	1,957,700	T	S01	S02	T01	T04	
583	016U	1,957,700	T	S01	S02	T01	T04	
584	017U	1,957,700	T	S01	S02	T01	T04	
585	020U	1,957,700	T	S01	S02	T01	T04	
586	021U	1,957,700	T	S01	S02	T01	T04	
587	022U	1,957,700	T	S01	S02	T01	T04	
588	023U	1,957,700	T	S01	S02	T01	T04	
589	024U	1,957,700	T	S01	S02	T01	T04	
590	025U	1,957,700	T	S01	S02	T01	T04	
591	027U	1,957,700	T	S01	S02	T01	T04	
592	028U	1,957,700	T	S01	S02	T01	T04	
593	029U	1,957,700	T	S01	S02	T01	T04	
594	030U	1,957,700	T	S01	S02	T01	T04	
595	031U	1,957,700	T	S01	S02	T01	T04	
596	032U	1,957,700	T	S01	S02	T01	T04	
597	033U	1,957,700	T	S01	S02	T01	T04	
598	034U	1,957,700	T	S01	S02	T01	T04	
599	036U	1,957,700	T	S01	S02	T01	T04	
600	037U	1,957,700	T	S01	S02	T01	T04	
601	038U	1,957,700	T	S01	S02	T01	T04	
602	040U	1,957,700	T	S01	S02	T01	T04	
603	041U	1,957,700	T	S01	S02	T01	T04	
604	042U	1,957,700	T	S01	S02	T01	T04	
605	043U	1,957,700	T	S01	S02	T01	T04	
606	044U	1,957,700	T	S01	S02	T01	T04	
607	046U	1,957,700	T	S01	S02	T01	T04	
608	047U	1,957,700	T	S01	S02	T01	T04	
609	048U	1,957,700	T	S01	S02	T01	T04	
610	049U	1,957,700	T	S01	S02	T01	T04	
611	050U	1,957,700	T	S01	S02	T01	T04	
612	051U	1,957,700	T	S01	S02	T01	T04	
613	052U	1,957,700	T	S01	S02	T01	T04	
614	054U	1,957,700	T	S01	S02	T01	T04	
615	055U	1,957,700	T	S01	S02	T01	T04	
616	056U	1,957,700	T	S01	S02	T01	T04	
617	057U	1,957,700	T	S01	S02	T01	T04	
618	058U	1,957,700	T	S01	S02	T01	T04	
619	059U	1,957,700	T	S01	S02	T01	T04	
620	061U	1,957,700	T	S01	S02	T01	T04	
621	063U	1,957,700	T	S01	S02	T01	T04	
622	064U	1,957,700	T	S01	S02	T01	T04	
623	065U	1,957,700	T	S01	S02	T01	T04	
624	068U	1,957,700	T	S01	S02	T01	T04	
625	070U	1,957,700	T	S01	S02	T01	T04	
626	071U	1,957,700	T	S01	S02	T01	T04	
627	072U	1,957,700	T	S01	S02	T01	T04	
628	073U	1,957,700	T	S01	S02	T01	T04	
629	074U	1,957,700	T	S01	S02	T01	T04	
630	075U	1,957,700	T	S01	S02	T01	T04	

LINE NO.	A. EPA HAZARDOUS WASTE CODE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	1. PROCESS CODES (enter code)				2. PROCESS DESCRIPTION (If no code entered in D.1)
631	076U	1,957,700	T	S01	S02	T01	T04	
632	077U	1,957,700	T	S01	S02	T01	T04	
633	078U	1,957,700	T	S01	S02	T01	T04	
634	079U	1,957,700	T	S01	S02	T01	T04	
635	080U	1,957,700	T	S01	S02	T01	T04	
636	082U	1,957,700	T	S01	S02	T01	T04	
637	083U	1,957,700	T	S01	S02	T01	T04	
638	086U	1,957,700	T	S01	S02	T01	T04	
639	088U	1,957,700	T	S01	S02	T01	T04	
640	089U	1,957,700	T	S01	S02	T01	T04	
641	090U	1,957,700	T	S01	S02	T01	T04	
642	092U	1,957,700	T	S01	S02	T01	T04	
643	093U	1,957,700	T	S01	S02	T01	T04	
644	094U	1,957,700	T	S01	S02	T01	T04	
645	095U	1,957,700	T	S01	S02	T01	T04	
646	096U	1,957,700	T	S01	S02	T01	T04	
647	097U	1,957,700	T	S01	S02	T01	T04	
648	098U	1,957,700	T	S01	S02	T01	T04	
649	099U	1,957,700	T	S01	S02	T01	T04	
650	100U	1,957,700	T	S01	S02	T01	T04	
651	101U	1,957,700	T	S01	S02	T01	T04	
652	102U	1,957,700	T	S01	S02	T01	T04	
653	103U	1,957,700	T	S01	S02	T01	T04	
654	104U	1,957,700	T	S01	S02	T01	T04	
655	106U	1,957,700	T	S01	S02	T01	T04	
656	108U	1,957,700	T	S01	S02	T01	T04	
657	110U	1,957,700	T	S01	S02	T01	T04	
658	111U	1,957,700	T	S01	S02	T01	T04	
659	112U	1,957,700	T	S01	S02	T01	T04	
660	113U	1,957,700	T	S01	S02	T01	T04	
661	114U	1,957,700	T	S01	S02	T01	T04	
662	115U	1,957,700	T	S01	S02	T01	T04	
663	116U	1,957,700	T	S01	S02	T01	T04	
664	117U	1,957,700	T	S01	S02	T01	T04	
665	118U	1,957,700	T	S01	S02	T01	T04	
666	119U	1,957,700	T	S01	S02	T01	T04	
667	120U	1,957,700	T	S01	S02	T01	T04	
668	121U	1,957,700	T	S01	S02	T01	T04	
669	122U	1,957,700	T	S01	S02	T01	T04	
670	124U	1,957,700	T	S01	S02	T01	T04	
671	127U	1,957,700	T	S01	S02	T01	T04	
672	128U	1,957,700	T	S01	S02	T01	T04	
673	129U	1,957,700	T	S01	S02	T01	T04	
674	131U	1,957,700	T	S01	S02	T01	T04	
675	132U	1,957,700	T	S01	S02	T01	T04	
676	134U	1,957,700	T	S01	S02	T01	T04	
677	135U	1,957,700	T	S01	S02	T01	T04	
678	136U	1,957,700	T	S01	S02	T01	T04	
679	137U	1,957,700	T	S01	S02	T01	T04	
680	138U	1,957,700	T	S01	S02	T01	T04	
681	139U	1,957,700	T	S01	S02	T01	T04	
682	140U	1,957,700	T	S01	S02	T01	T04	
683	141U	1,957,700	T	S01	S02	T01	T04	
684	142U	1,957,700	T	S01	S02	T01	T04	
685	143U	1,957,700	T	S01	S02	T01	T04	
686	144U	1,957,700	T	S01	S02	T01	T04	
687	146U	1,957,700	T	S01	S02	T01	T04	
688	147U	1,957,700	T	S01	S02	T01	T04	
689	148U	1,957,700	T	S01	S02	T01	T04	
690	150U	1,957,700	T	S01	S02	T01	T04	
691	151U	1,957,700	T	S01	S02	T01	T04	
692	152U	1,957,700	T	S01	S02	T01	T04	
693	153U	1,957,700	T	S01	S02	T01	T04	

LINE NO.	A. EPA HAZARDOUS WASTE CODE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	1. PROCESS CODES (enter code)				2. PROCESS DESCRIPTION (if no code entered in D.1)
694	154U	1,957,700	T	S01	S02	T01	T04	
695	155U	1,957,700	T	S01	S02	T01	T04	
696	157U	1,957,700	T	S01	S02	T01	T04	
697	158U	1,957,700	T	S01	S02	T01	T04	
698	159U	1,957,700	T	S01	S02	T01	T04	
699	160U	1,957,700	T	S01	S02	T01	T04	
700	161U	1,957,700	T	S01	S02	T01	T04	
701	162U	1,957,700	T	S01	S02	T01	T04	
702	164U	1,957,700	T	S01	S02	T01	T04	
703	165U	1,957,700	T	S01	S02	T01	T04	
704	166U	1,957,700	T	S01	S02	T01	T04	
705	167U	1,957,700	T	S01	S02	T01	T04	
706	168U	1,957,700	T	S01	S02	T01	T04	
707	169U	1,957,700	T	S01	S02	T01	T04	
708	170U	1,957,700	T	S01	S02	T01	T04	
709	171U	1,957,700	T	S01	S02	T01	T04	
710	172U	1,957,700	T	S01	S02	T01	T04	
711	173U	1,957,700	T	S01	S02	T01	T04	
712	174U	1,957,700	T	S01	S02	T01	T04	
713	175U	1,957,700	T	S01	S02	T01	T04	

Table D-1: Tank Specifications

(Tank Use, Safety Cutoff Bypass System, Pressure Controls, and Tank Age)

Table D-1
Tank Specifications

Tank No. (Permit No./(Original No.))	Volume (Gallons, unless otherwise specified)	Dimensions	Tank Material	Tank Use	Class	Safety Cut-off	Bypass System	Level Sensor	Pressure Control	Year
T-001 (T-107)	20,000	10.5' D x 31' H	Steel	Wastewater Holding/Storage	Non-hazardous					1988
T-002 (T-108)	20,000	10.5' D x 31' H	Steel	Wastewater Holding/Storage	Non-hazardous					1988
T-003 (T-109)	78,000	16.75’ D x 46.67’ H	Steel / Fiberglass liner	Wastewater Holding/Storage	Non-hazardous					1988
T-004 (T-110)	78,000	16.75’ D x 46.67’ H	Steel / Fiberglass liner	Wastewater Holding/Storage	Non-hazardous					1988
T-013 (T-101)	150,000	30' D x 30' H	Steel	Oily Water Processing	Non-hazardous					1967
T-014 (T-102)	100,000	24' D x 30' H	Steel	Oily Water Processing	Non-hazardous					1967
T-015 (T-103)	150,000	30' D x 30' H	Steel	Oily Water Processing	Non-hazardous					1967
T-016 (T-104)	100,000	24' D x 30' H	Steel	Oily Water Processing	Non-hazardous					1967
T-017 (T-105)	150,000	30' D x 30' H	Steel	Oily Water Processing	Non-hazardous					1967
T-018 (T-106)	100,000	24' D x 30' H	Steel	Oily Water Processing	Non-hazardous					1967
T-019 (T-513)	78,000	16.75' D x 46.67' H	Steel / Fiberglass liner	Oily Water Holding/Storage	Non-hazardous					1988
T-020 (T-515)	78,000	16.75' D x 46.67' H	Steel / Fiberglass liner	Oily Water Holding/Storage	Non-hazardous					1988
T-021 (T-516)	78,000	16.75' D x 46.67' H	Steel / Fiberglass liner	Oily Water Holding/Storage	Non-hazardous					1988
T-022 (T-514)	78,000	16.75' D x 46.67' H	Steel / Fiberglass liner	Oily Water Holding/Storage	Non-hazardous					1988
T-224 (T-24)	17,000	12' D x 18' H	Steel	Sludge Holding	Non-hazardous					2012
T-225 (T-25)	17,000	12' D x 18' H	Steel	Sludge Holding	Non-hazardous					2012
T-111	20,000	11' D x 28' H	Steel	Used Oil Storage	Non-hazardous					2000*
T-112	20,000	11' D x 28' H	Steel	Used Oil Storage	Non-hazardous					2000*

Tank No. (Permit No./(Original No.))	Volume (Gallons, unless otherwise specified)	Dimensions	Tank Material	Tank Use	Class	Safety Cut-off	Bypass System	Level Sensor	Pressure Control	Year
T-113	20,000	11' D x 28' H	Steel	Used Oil Storage	Non-hazardous					2000*
T-114	20,000	11' D x 28' H	Steel	Used Oil Storage	Non-hazardous					2000*
T-115	20,000	11' D x 28' H	Steel	Used Oil Storage	Non-hazardous					2000*
T-116	20,000	11' D x 28' H	Steel	Used Oil Storage	Non-hazardous					2000*
T-117	20,000	11' D x 28' H	Steel	Used Oil Storage	Non-hazardous					2013
T-120	15,000	12' D x 18' H	Steel	Used Oil Storage	Non-hazardous					2006
T-121	15,000	12' D x 18' H	Steel	Used Oil Storage	Non-hazardous					2006
T-122	15,000	12' D x 18' H	Steel	Used Oil Storage	Non-hazardous					2006
T-123	16,000	12' D x 19' H	Fiberglass	Used Oil Storage	Non-hazardous					2006
T-201	20,000	14' D x 20' H	¼" Steel (no liner)	Wastewater Chemical Precipitation	Hazardous	Pneumatic butterfly on suction. Alarm on High level.	None	Yes	Open vent to atmosphere	2000
T-202	20,000	14' D x 20' H	¼" Steel (no liner)	Wastewater Chemical Precipitation	Hazardous	Pneumatic butterfly on suction. Alarm on High level.	None	Yes	Open vent to atmosphere	2000
T-203	20,000	14' D x 20' H	¼" Steel (no liner)	Wastewater Chemical Precipitation	Hazardous	Pneumatic butterfly on suction. Alarm on High level.	None	Yes	Open vent to atmosphere	2000
T-204	17,000	14'D x 15'10" H	Fiberglass	Wastewater Chemical Precipitation	Hazardous	Alarm on high level	None	Yes	Open vent to atmosphere	2018
T-205	17,000	13' D x 18'4" H	Fiberglass	Wastewater Chemical Precipitation	Hazardous	Alarm on high level	None	Yes	Open vent to atmosphere	2016
T-206	17,000	13' D x 18'4" H	¼" Steel (no liner)	Wastewater Chemical Precipitation	Hazardous	Alarm on high level	None	Yes	Open vent to atmosphere	2007
T-207	1,200	6'L x 6'W x 4.75' H	¼" Steel (no liner)	Filtrate Surge Tank	Hazardous	Alarm on high level	None	Yes	Open vent to atmosphere	2000*
T-208	17,000	14'D x 15'10" H	Fiberglass	Wastewater/Sludge Holding	Hazardous	Alarm on high level	None	Yes	Open vent to atmosphere	2018
T-209	1,200	5.5' H x 6'L x 5.5'W	Steel	Filtrate Surge Tank	Non-hazardous				Open vent to atmosphere	2012

Tank No. (Permit No./(Original No.))	Volume (Gallons, unless otherwise specified)	Dimensions	Tank Material	Tank Use	Class	Safety Cut-off	Bypass System	Level Sensor	Pressure Control	Year
T-301	8,000	9.9'L x 9.9'W x12' H	¼" Steel / Fiberglass liner	Acid Neutralization	Hazardous	Alarm on high level	None	Have Level	Open vent to atmosphere	1990*
T-302	8,000	9.9'L x 9.9'W x 12' H	¼" Steel / Fiberglass liner	Acid Neutralization	Hazardous	Alarm on high level	None	Yes	Open vent to atmosphere	1990*
T-303	6,500	10' D x 10.3' H	Polyethylene	Acid Storage	Hazardous	Alarm on high level	None	Yes	Open vent to atmosphere	2013
T-304	6,500	10' D x 10.3' H	Polyethylene	Acid Storage	Hazardous	Alarm on high level	None	Yes	Open vent to atmosphere	1990
T-305	15,000	12' H x 15.5' H	¼" Steel / Fiberglass liner	Wastewater Chemical Precipitation	Hazardous	Alarm on high level	None	Yes	Open vent to atmosphere	1990
T-306	21,000	14' D x 19' H	Fiberglass	Wastewater Chemical Precipitation	Hazardous	Alarm on high level	None	Yes	Open vent to atmosphere	2020
T-701	210 cu yd	21'L x 26'W x 10'H	1" Steel w/ concrete containment	Solid Waste Fixation	Hazardous	None	None		Vented to atmosphere through control system	2012
T-702	490 cu yd	50.3'L x 26'W x 10'H	¾" to 1" Steel w/ concrete containment	Solid Waste Fixation	Hazardous	None	None		Vented to atmosphere through control system	1998
T-703	490 cu yd	50.3'L x 26'W x 10'H	¾" Steel w/ concrete containment	Solid Waste Fixation	Hazardous	None	None		Vented to atmosphere through control system	2019
T-704	510 cu yd	65.3'L x 21'W x 10'H	¾" to 1" Steel w/ concrete containment	Solid Waste Fixation	Hazardous	None	None		Vented to atmosphere through control system	1998

Tank No. (Permit No./(Original No.))	Volume (Gallons, unless otherwise specified)	Dimensions	Tank Material	Tank Use	Class	Safety Cut-off	Bypass System	Level Sensor	Pressure Control	Year
T-705	290 cu yd	36.3'L x 21'W x 10'H	¾" to 1" Steel w/ concrete containment	Solid Waste Fixation	Hazardous	None	None		Vented to atmosphere through control system	1998
T-706	170 cu yd	21'L x 21'W x 10'H	¾" to 1" Steel w/ concrete containment	Solid Waste Fixation	Hazardous	None	None		Vented to atmosphere through control system.	2018
T-026 (T-901)	144,500	69'L x 26'W x 10'H	¾" Steel w/ concrete containment	Sludge Holding	Non-hazardous					1998
A-1	6,000	9.3' D x 12' H	Steel	Caustic Reagent Storage	Product/Reagent					1995*
C-1	14,000	12' D x 16' H	Steel	Lime Reagent Storage	Product/Reagent					1995*
S-1	41,140	12' D x 47' H	Steel	CKD or Fly Ash Reagent Storage	Product/Reagent					1998
S-2	41,140	12' D x 47' H	Steel	CKD or Fly Ash Reagent Storage	Product/Reagent					1998
S-3	41,140	12' D x 47' H	Steel	CKD or Fly Ash Reagent Storage	Product/Reagent					1998
S-4	41,140	12' D x 47' H	Steel	CKD or Fly Ash Reagent Storage	Product/Reagent	High Level Alarm	None		Vented through baghouse	1998
H-1 (S-5)	41,140	12' D x 47' H	Steel	CKD or Fly Ash Reagent Storage**	Hazardous	High Level Alarm	None		Vented through baghouse	1998
CST-2	6,100	8.5' D x 14.8' H	Polyethylene	Ferric Chloride Reagent Storage	Product/Reagent					2003
CST-3	4,150	8.5' D x 14.8' H	Polyethylene	Ferric Chloride Reagent Storage	Product/Reagent					2003
CST-4	6,000	8' D x 13' H	Fiberglass	Caustic Reagent Storage	Product/Reagent					2003
CST-7	250	1.5' D x 5' H	Polyethylene	Caustic Reagent Storage	Product/Reagent					2008
Clarifier	10,000	25'L X 12'W X 27' H	Steel	Wastewater polishing	Hazardous					2008

*Year is approximated
**Reagent silo is permitted to hold hazardous dust

Table D-2: Container Storage

Table D-2
Container Storage

Unit Designation	Drawing Reference	Conditions	Storage Volume (gallons)	Max No. of Containers
Rail Area	C-15 (Area C), C-20	Squirt protection barrier	207,000	9 Rail Tanker Cars
Container Storage Area (Drum Warehouse)	C-16, C-26	Configuration of containers shown in drawing R-06	100,430	Container types and sizes vary. Total volume contained in all container types will not exceed 100,430 gallons. This is approximately 1,826 fifty-five gallon drums.
Container Staging Area (Receiving Area)	C-16, C-26	Configuration of containers shown in drawing R-06	54,340	Container types and sizes will vary. Total volume contained in all container types will not exceed 54,340 gallons. This approximately 988 fifty-five gallon drums.
Corrosive Container Pad (Acid Room)	C-16, C-24	The storage of incompatible wastes in this area is prohibited	6,600	Container types and sizes will vary. Total volume contained in all container types will not exceed 6,600 gallons. This is approximately 120 fifty-five gallon drums.
Chemical Precipitation Container Pad (Chem Pre)	C-16, C-24	Requires application of epoxy-based sealant on containment curb in Main Plant Process Area.	6,600	Container types and sizes will vary. Total volume contained in all container types will not exceed 6,600 gallons. This is approximately 120 fifty-five gallon drums.
North Container Storage Pad (North Pad)	C-22	Configuration of containers shown on drawing R-05. Outside storage cannot occur without ambient air monitoring program for particulates and heavy metals.	80,800	Container types and sizes will vary. Total volume contained in all container types will not exceed 80,800 gallons. No more than 20 twenty-cubic yard portable containers. 73 fifty-five gallon drums may be substituted for a twenty cubic yard portable container for a maximum of 1,469 fifty-five gallon drums, if there are no twenty-cubic yd portable containers.
Chemical Fixation Building (Chem Fix)	C-16, C-25	Configuration of containers shown on drawing R-05.	130,120	Container types and sizes will vary. Total volume contained in all container types will not exceed 130,120 gallons. This is approximately 2,365 fifty-five gallon drums.
Depack Area	C-16, C-27	Configuration of containers shown on drawing R-05.	8,800	Container types and sizes will vary. Total volume contained in all container types will not exceed 8,800 gallons. This is approximately 160 fifty-five gallon drums.
DePack Drum Storage Pad	C-15 (Area G)	Configuration of containers shown on drawing R-05.	19,360	Container types and sizes will vary. Total volume contained in all container types will not exceed 19,360 gallons. This is approximately 352 fifty-five gallon drums.
Total Container Storage Capacity			614,050	

Table F- 1: Minimizing Potential Hazard

Table F-1
Minimizing Potential Hazards

Hazardous Waste Activity/Area	Potential Hazards	Minimize By
1. Transport, receiving, sending loading, off-loading, sampling HW storage and accumulation	a) Fire or explosion b) Sudden release of HW c) Non-sudden release of HW	Wastes approved exclude explosives and/or stored separately Work areas paved and level for vehicles Work areas slope to secondary containment sewers or sumps
2. HW Treatment Plant and Wastewater Treatment Plant	a) Fire or explosion b) Sudden release of HW c) Non-sudden release of HW	Construction materials low combustibility Work areas paved and level for vehicles Work areas slope to secondary containment sewers or sumps
3. On site support services - labs, equipment cleaning and environmental maintenance, environmental monitoring, leachate management	a) Fire or explosion b) Sudden release of HW c) Non-sudden release of HW	Low volumes of flammables, properly stored Low Volumes of waste Leachate lines have secondary containment

Table G- 1: Maintenance Supply and Treatment Chemicals

Table G-1

Maintenance Supply and Treatment Material Characteristics

Material Category: Flammable

Material Data:

Examples – Paint, primer, solvents, paint thinner, organic solvents, alcohols, and gasoline.

Health Hazard – Fire and explosion hazard. Eye and respiratory irritant (solvents). Inhalation of solvent vapors may cause death by paralysis of respiratory organs, can be toxic if ingested and can cause skin irritations through request contact. Refer to specific SDS.

Personal Protection – Wear full protective clothing including goggles.

Storage – Stored in steel "flammable liquids" cabinets located through the treatment facility and laboratory. Due to limited quantity of these materials, no major spill is expected.

Fire Fighting - For solvents and other flammables use dry chemical foam or carbon dioxide (water may be ineffective). Water should be used to keep fire-exposed containers and tanks cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop a leak. Water spray may be used to flush spills away from ignition sources.

Material Category: Combustible

Material Data:

Examples – Fluid flocculent, and diesel fuel.

Health Hazard – Toxic is ingested and can cause skin irritation (dermatitis) through frequent contact. Refer to specific SDS.

Personal Protection – Wear full protective clothing including goggles.

Storage – The flocculent is typically stored in 55-gallon plastic drums, inside the treatment plant. The drums are contained by concrete curbing. Diesel fuel is stored in 5-gallon or 10-gallon containers.

Fire Fighting - For oils, extinguish with suitable extinguisher. For other combustibles, use dry chemical foam or carbon dioxide (water may be ineffective). Water should be used to keep fire-exposed containers and tanks cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop a leak. Water spray may be used to flush spills away from ignition sources.

Table G-1 (Cont'd)

Maintenance Supply and Treatment Material Characteristics

Material Category: Corrosive

Material Data:

Examples – Sodium hydroxide, treatment polymer, lime slurry, cleaning compounds, sulfuric acid, phosphoric acid, ferric sulfate, ferric chloride, and aluminum chloride.

Health Hazard – Contact causes chemical burns to skin, eyes and mucous membranes. Maybe harmful if inhaled. Harmful if ingested. Fire may produce irritating or poisonous gasses. Refer to specific SDS.

Personal Protection – Avoid breathing vapors. Wear boots, protective gloves and goggles and avoid contact with material. Handle broken packages with protective equipment. Wear full protective clothing if contact is anticipated. In case of contact, flush material from skin and eyes with copious amounts of water. Remove contaminated clothing.

Storage – Stored in 55-gallon plastic drums inside the treatment plant. The drums are contained by concrete curbing. Protect against physical damage. Keep separate from acids, organic halogens, metals, and ignitables.

Fire Fighting – Materials are considered nonflammable.

Material Category: Compressed Gas

Material Data:

Examples – Nitrogen, oxygen, and acetylene.

Health Hazard – Compressed gasses are primarily non-toxic, however pressurized cylinders represent significant physical hazard if ruptured. Refer to specific SDS.

Personal Protection – Avoid possible impact areas affected by the sudden release of pressure of flying debris. Acetylene hazards add the requirements for fire protection and avoidance of breathing vapors. Routine operations with compressed gasses yield minimal need for personal protection.

Storage – Typically stored in steel cylinders. These cylinders can be transported on portable carts to all facility locations (bottles must be secured upright with a chain or other manner to ensure they do not fall over. Store away from heat and ignition sources.

Fire Fighting – Only acetylene is flammable. Oxygen will accelerate combustion. If cylinder is leaking, stop source or remove to open area. Keep adjacent areas cooled by water in the event of a fire and attempt to eliminate the source.

Table G- 2: Waste Characteristics

Table G-2

Waste Characteristics

Material Category: Corrosive-Acids

Material Data:

Health Hazard – Toxic, do not handle with bare hands. Can cause severe chemical burns. Avoid contact, may be harmful if inhaled or ingested.

Personal Protection – Wear full, acid resistant protective clothing, including safety goggles. Upon any contact with skin or eyes, the material should be flushed with water for at least 15 minutes. Use emergency shower and/or eye wash if necessary. Remove contaminated clothing. Seek medical attention immediately.

Storage – Protect against physical damage. Store in dry well ventilated areas. Store away from carbides, alkalines, chlorates, nitrates, powdered metals, and combustible materials.

Fire Fighting – Use large amounts of water. Cover with absorbent and/or neutralizing chemical.

Material Category: Corrosive-Alkalis

Material Data:

Health Hazard – Contact causes burns to skin and eyes. May be harmful if inhaled. Harmful if ingested. Fire may produce irritating or poisonous gasses.

Personal Protection – Avoid breathing vapors. Wear boots, protective gloves and goggles and avoid contact with material. Do not handle broken packages without protective equipment. Wear full protective clothing if contact is anticipated. In case of contact, flush material from skin or eyes with copious amounts of water. Remove contaminated clothing.

Storage – Protect against physical damage. Keep separate from acids, organic halogens, metals, and ignitables.

Fire Fighting – Material does not burn or burns with difficulty. Use fire-fighting agent appropriate for surrounding fire. Cool affected containers and tanks with water as necessary.

Table G-2 (Cont'd)

Waste Characteristics

Material Category: Oxidizers

Material Data:

Health Hazard – Hazards vary from compound to compound. Some oxidizers are skin irritants and others are toxic by ingestion or inhalation.

Personal Protection – Varies according to specific properties of the compound. Some require minimal protection, while others require full protective equipment.

Storage – Keep cool. Store away from combustible materials and organics. Protect against physical damage. Clean up spills immediately.

Fire Fighting – Use water. Also use water to cool combustibles in vicinity.

Material Category: Non-Halogenated Organic Solvent

Material Data:

Health Hazard – Eye and respiratory irritant. Inhalation of high concentration vapors may cause death by paralysis of respiratory organs. Some compounds are toxic if ingested and can cause skin irritation through frequent contact. Vapors via travel considerable distances to ignition sources.

Personal Protection – Wear full protective clothing, including safety goggles. Seek medical attention immediately.

Storage – Store in a cool, dry, well ventilated location away from any area where a fire hazard may be present.

Fire Fighting – Use dry chemical foam or carbon dioxide (water may be ineffective). Water should be used to keep fire-exposed containers and tanks cool. If leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop the leak. Water spray may be used to flush spill away from ignition sources.

Table G-2 (Cont'd)

Waste Characteristics

Material Category: Non-Halogenated Organic Solvent (Toxic)

Material Data:

Health Hazard – Coordination and impaired judgement may occur at vapor exposures from 300 ppm to 1,000 ppm. Dizziness, drowsiness, loss of consciousness and even death can occur at increased levels of exposure. When involved in fire it emits highly toxic and irritating fumes.

Personal Protection – Wear full protective clothing, including plastic apron, safety goggles, and appropriate respiratory protection.

Storage – Store in a cool, dry, well ventilated location away from any area where a fire hazard may be present.

Fire Fighting – Use water spray to keep fire-exposed containers and tanks cool. Water may be used to flush spills away from ignition sources.

Material Category: Metal-Bearing Sludges (TC Toxic Sludges)

Material Data:

Health Hazard – Ingestion of large amounts can cause intestinal disorders and death. Toxicity primarily due to metal constituents. Hydroxides of heavy metals are generally insoluble.

Personal Protection – Wear full protective clothing, including safety goggles.

Storage – Store in compatible containers.

Fire Fighting – Essentially non-flammable, however if ignited it must be treated as a metal fire. Normal fire extinguisher, water, CO2, and foam may not be effective. Dry chemical extinguisher, powdered talc or dry sand may be required to blanket a fire.

Table G-2 (Cont'd)

Waste Characteristics

Material Category: Metal-Bearing Liquids (TC Toxic Liquids)

Material Data:

Health Hazard – Ingestion of large amounts can cause intestinal disorders and death. Toxicity primarily due to metal constituents. Hydroxides of heavy metals are generally insoluble.

Personal Protection – Wear full protective clothing, including safety goggles.

Storage – Store in compatible containers.

Fire Fighting – Essentially non-flammable, however if ignited it must be treated as a metal fire. Normal fire extinguisher, water, CO2, and foam may not be effective. Dry chemical extinguisher, powdered talc or dry sand may be required to blanket a fire.

Material Category: Combustible Waste (such as solvents and oil)

Material Data:

Health Hazard – Eye and respiratory irritant (solvents). Inhalation of solvent vapors may cause death by paralysis of respiratory organs. Oils are toxic if ingested and can cause skin irritations through frequent contact.

Personal Protection – Wear full protective clothing, including goggles.

Storage – Protect against physical damage. Store in leak-proof containers or tanks. Isolate from sources of ignition. No smoking in storage area. Store only in designated flammable/combustible storage area.

Fire Fighting – For oils extinguish with suitable foam-type extinguisher. For solvents and other organic wastes use drum chemical foam or carbon dioxide (water may be ineffective). Water could be used to keep fire-exposed containers and tanks cool. If a leak or spill has not ignited use water spray to disperse the vapors and to protect personnel attempting to stop a leak. Water spray may be used to flush spill away from ignition sources.

Table G-2 (Cont'd)

Waste Characteristics

Material Category: Pesticides (Toxic)

Material Data:

Health Hazard – Vapors from toxic concentrations at slightly elevated temperatures. Vapors cause headaches, nausea and irritation of eyes, nose and throat. Toxic by skin contact, ingestion or inhalation. Decomposition products are highly toxic and irritating.

Personal Protection – For liquids and dry powder wear full protective clothing including respiratory protection and eye protection.

Storage – Store in sealed containers and protect against physical damage. Store in a cool, dry, well ventilated location away from any acute fire hazard area. Outside, detached storage is preferred and separate from other storage.

Fire Fighting – For liquids use water spray, carbon dioxide, dry chemical, or foam. Use water to keep fire-exposed containers cool. If a leak or spill has not ignited use water spray to disperse vapors and provide personal protection. Water spray may be used to flush spills away from ignition sources.

Material Category: Non-Hazardous

Material Data:

Health Hazard – Generally non-toxic, but may be irritating to skin and eyes.

Personal Protection – Gloves and googles.

Storage – Keep separate from incompatible materials..

Fire Fighting – For liquids use carbon dioxide, or foam extinguisher. For solids, use water spray or carbon dioxide extinguisher.

Table G- 3: Location of Emergency Equipment

Table G-3

Emergency Equipment and Location

Quantity*	Equipment	Location
7	**Emergency body shower & eyewash station**	**See drawing R-02**
1	**Fire blanket with wall-mounted cabinet**	**See drawing R-02**
10	**First aid cabinets**	**See drawing R-02**
3	**Class 1/Div 1 Flashlights**	**Emergency Rescue Truck**
12	**Standard size chemical splash goggles**	**Security Building (2nd floor)**
93	**Multipurpose fire extinguisher**	**See drawing R-03**
4	**CO_2 extinguisher**	**See drawing R-03**
25 pair	**Chemical Resistant Gloves**	**Security Building (2nd floor)**
100's 2 per kit 10-15 2-50 depending on dept	**Tyvek Hazmat Suits**	**Security Building (2nd floor)** In all spill Kits On ERT truck Small supplies stocked in each department
2	**Level A Hazmat Suits**	Administration Building
3	**5 Minute emergency escape units**	**Chem Fix, Depack, Chem Pre**
8	**30 Minute SCBA**	**Drum Dock, DePack, Emergency Rescue Truck**
3	**30 Minute SCBA Spare Tanks**	**Emergency Rescue Truck**

Quantity*	Equipment	Location
8	Supplied Air Face Masks	Drum Dock, DePack, Emergency Rescue Truck
6	Shovels, metal and plastic	Main Plant
6	Polyethylene hard hats, plastic	Administration Building
8	Extra Full face Air Purifying Respirators (note that necessary individuals are assigned their own)	Security Building (2nd floor)
100	Filter Cartridges for APR	Security Building (2nd floor)
4	Automatic External Defibrillator	See drawing R-02
7	Spill Kits	See drawing R-01

***Please note that quantities are approximate.**

Table J- 1: Summary of Anticipated Environmental Impact

TABLE J-1
SUMMARY OF ANTICIPATED ENVIRONMENTAL IMPACTS

ENVIRONMENT	IMPACT
Physiography	
Topography	No Significant Impact
Geology	No Significant Impact
Soils	No Significant Impact
Climate	No Significant Impact
Terrestrial Systems	No Significant Impact
Aquatic Systems	No Significant Impact
Hydrology	No Significant Impact
Air Quality	No Significant Impact
Aesthetics	No Significant Impact
Land Use	No Significant Impact
Zoning	No Significant Impact
Archeological and Historical Resources	No Significant Impact
Social Environment	Some minor impacts; mitigation possible
Economic levels	potentially beneficial
Support services	No Significant Impact
Energy demand & non-renewable resources	No Significant Impact
Hazardous wastes	Beneficial impact

Table M- 1: Manifest Distribution

Table M-1

Manifest Distribution*

Manifest Copy	Distribution
Page 1	EQD sends this copy to EGLE
Page 2	EQD sends this copy to the generator's State
Page 3	EQD sends this copy to the generator
Page 4	EQD retains this copy for at least three years
Page 5	EQD provides this copy to the generator

*E-Manifests utilized as required.

Figure G- 1: Emergency Contact Personnel

And

Emergency Response Agencies/Organizations

Telephone Listing

40 CFR 264.52(c) and (d)

US ECOLOGY DETROIT SOUTH Contingency Plan
Figure G-1
EMERGENCY CONTACT PERSONNEL / RESPONSE AGENCIES AND ORGANIZATIONS
***Dial 9 to get an outside line**

EMERGENCY COORDINATOR

Paul Haratyk (Operations Manager)	Office: (313) 347-1320
46400 Hanford Rd.	Home: (734) 844-1128
Canton, MI 48187	Cell: (734) 576-0142

ALTERNATE EMERGENCY COORDINATOR

John C. Barta (General Manager)	Office: (313) 347-1330
39006 Lakeshore	Cell: (586) 229-0253
Harrison Township, MI 48045	Home: (586) 465-9626

CORPORATE COMMUNICATIONS

Dave Crumrine	Office: (734) 521-8032
	Cell: (734) 845-8410

RAIL CONTACT

Rail Road Dispatch (Adrian & Blissfield)	Office: (734) 641-2345

EMERGENCY MEDICAL SERVICES

Detroit EMS	911 or (313) 596-5180
Detroit Poison Control	(313) 745-5711
Detroit Receiving Hospital	(313) 745-3374
Henry Ford Hospital	(313) 916-2600

GOVERNMENTAL AGENCIES

National Response Center	(800) 424-8802
MI Environment Great Lakes & Energy	(800) 292-4706
Pollution Emergency Alert System	(517) 373-7660
MI Occupational Safety & Health Agency	(517) 322-1831
US Environmental Protection Agency (National Response Unit)	(313) 676-6500

MISC. AGENCIES & RESPONSE CONTRACTORS

City of Detroit Health Department	(313) 876-4000
Community & Industrial Hygiene	(313) 876-4516
US Ecology Emergency Response Services-24 HRS	(800) 839-3975

UTILITIES

DTE Energy	(800) 477-4747
Consumer's Energy	(800) 477-5050
Detroit Water & Sewerage Dept. (DWSD) (*utility problem*)	(313) 267-7401
Detroit Water & Sewerage Dept. (DWSD) (*release to sanitary or storm sewer)*	(313) 297-6000

POLICE, FIRE & WAYNE COUNTY SHERIFF DEPARTMENT

City of Detroit Police Department	911 or (313) 596-5700
Michigan State Police Department	911 or (248) 584-5740
City of Detroit Fire Department	911 or (313) 596-2900
Wayne County Sheriff Department	911 or (313) 224-2222

Figure G-2: Response Actions Checklist

Figure G-2 Response Actions Checklist

Contingency Plan Activation of Off-Site Release Checklist

Record Incident	
	Time the incident began, duration, and location of the event.
	Employees/witnesses having direct involvement or direct knowledge of the incident.
	Gather local meteorological data and any characteristics noted by personnel directly involved with the incident or recorded elsewhere.
	Extent of injuries if any
Event Narrative	
	Sequence of events and time line leading up to and throughout the incident
	Identify specific event locations, materials, and equipment involved in the incident.
	Identify and characterize, to the extent possible, the size and scope of the event.
	Identify efforts taken to reduce the extent of the release
	Identify clean-up efforts
Materials or Substances Involved	
	Identify all of the materials/substances that may have been involved in the event.
	Determine the volume, concentration, and weight of substances identified above, and determine how they may have been altered by the event.
	Develop a list of constituents that may be a potential concern
EGLE Materials Management Division Notification	
	Within 24 hours of discovering an incident requiring implementation of the Contingency Plan provide verbal notification
	Within 15 days of an incident requiring implementation of the Contingency Plan provide written notification summarizing information above

Post Incident Sampling	
	Develop a sampling plan, as appropriate. The plan may take into account fallout density, air monitoring data, visual observation, or air modeling. A statistical sampling design may not be necessary for the screening evaluation. Post incident, off site sampling may not be necessary based on air monitoring data and lack of off-site migration or deposition.
	Collect a sufficient number of samples to identify and characterize concentrations of substances involved in the incident. Include sampling for background concentrations.
	Complete the analysis of collected samples and review by comparison to relevant screening levels. Screening levels may have to be developed for some chemicals or environmental media.
	Identify and document any substances found to be present at levels that exceed screening levels.
Evaluate Data for Screening Potential Risk	
	Screen existing data against relevant screening levels.
	Prepare risk assessment screening report if appropriate.
	If less than screening levels, no further action is needed for off-site potential releases upon approval of the EGLE Material Management Division.

Figure G-3: Evacuation Procedures

Figure G-3 Evacuation Procedures

If any employee encounters an emergency which they believe to present an imminent threat to human health or the environment, the individual employee is authorized to leave the area immediately and tell others to leave the area immediately.

The attached maps indicate the evacuation routes to the rally points (**Drawing R-04**). The EQD facility public address intercom system will be used to signal partial or total facility evacuation. This message will include a warning of the nature of the incident. In the event of a total facility evacuation, the City of Detroit Police and Fire Departments will be immediately notified.

Primary evacuation routes vary depending on the department's location. It is the responsibility of the department supervisors to inform employees of these evacuation routes and ensure all employees meet at the appropriate rally point in the event of an incident. Alternate evacuation routes may be used because of wind direction or the location of the incident. Supervisors will inform the Emergency Coordinator (EC) if an alternate evacuation route must be used. The EC will communicate if the conditions of the incident prohibit the alternate route

Upon learning of an evacuation notice, the following will occur:

1. All employees, contractors and visitors will evacuate in an orderly and safe manner to the designated rally point.
2. If it is safe to do so, each work area will be checked by the area supervisor or designee to ensure everyone has left the area, including contractors and visitors.
3. Department supervisors will conduct a head count and report any missing persons and their suspected locations, if known, to the EC.
4. Based on the situation, the EC will decide whether to conduct search and rescue using internal personnel or wait for assistance from outside emergency responders.

Employees should not leave their rally point until instructed to do so by the EC, or until a general all clear signal has been communicated

Figure J- 1: Glacial Surface Geology Map

Figures J-1 through J-7 listed below and referenced in this section are provided on the Hydrogeological Data CD included with original application

Figure J- 2: Glacial Drift Thickness Map

Figures J-1 through J-7 listed below and referenced in this section are provided on the Hydrogeological Data CD included with original application

Figure J- 3: Bedrock Formation Map

Figures J-1 through J-7 listed below and referenced in this section are provided on the Hydrogeological Data CD included with original application

Figure J- 4: Bedrock Surface Map

Figures J-1 through J-7 listed below and referenced in this section are provided on the Hydrogeological Data CD included with original application

Figure J- 5: Thickness Lithofacies Map of Dundee Formation

Figures J-1 through J-7 listed below and referenced in this section are provided on the Hydrogeological Data CD included with original application

Figure J- 6: Thickness Lithofacies Map of Traverse Formation

Figures J-1 through J-7 listed below and referenced in this section are provided on the Hydrogeological Data CD included with original application

Figure J- 7: Thickness % Shale Map of Traverse Group

Figures J-1 through J-7 listed below and referenced in this section are provided on the Hydrogeological Data CD included with original application

Figure O-1: Daily Inspection Logs

Detroit South Monitoring, Operational, and Structural Systems

Chem-Pre Hazardous Waste Areas - Daily Inspection

Complete all inspection items daily. If an inspection item is unacceptable at the time of inspection but you are able to fix it right then, complete the "corrective action" and "completed" columns with the appropriate information. If you're unable to correct an unacceptable condition, notify your supervisor or complete a Work Order (WO) for the Maintenance Dept. and enter the WO# in the "completed" column.

Inspector:				Date:	Time:
		Acceptable?			
200 Series Treatment / Storage Tanks (T-201 thru T-208, T-305, T-306, etc.)		**Yes**	**No**	**CORRECTIVE ACTION (Who/What)**	**COMPLETED (Date or WO#)**
Tanks	Free of Spills/Leaks, Corrosion				
	Verify Tank Levels				
	Signage / Markings Present & Legible (Tank Number, Hazardous Waste, Confined Space, Hot, etc.)				
Pumps, Valves, Piping & Transfer Lines, Ancillary Equipment	Free of Leaks, Corrosion				
	Hoses in Good Condition, Not Used for Incompatibles, and Managed Properly When Not in Use (Hung up and/or capped and/or stored to prevent leaks), i.e. In Containment				
Weir	Grating in Place, Confined Space Sign Present				
Containers (Totes, Drums, Pails, etc.)	Drip Cans Labeled, Covered When Not in Use				
	Labels Complete/ Legible (Product Name,Waste,DOT or NFPA, etc)				
	Free of Damage or Deterioration				
	Staged in Rows with minimum 2' aisle space				
	Free of Spills/Leaks				
	Closed - Lids & Bungs on securely (except when actively adding or removing material)				
Filter Press & Roll-Off Box	Operational, Free of Leaks, Splash Curtains Intact, Box Labeled				
Clarifier	All Grating & Guarding in Place, Hose Stored Neatly				
Containment	Walls/Floor Free of Cracks/Chips				
	Empty, Grating in Place (Check trenches, sumps, etc.)				
Loading/Unloading Areas	Free of Spills, Debris, Accumulated Rainwater				
Emergency Equip.	*Fire Extinguishers - In Working Order / 3' clearance in front				
	*Eye Wash / Shower - Operational / 3' clearance in front				
	Man Doors Accessible (minimum 3' clearance)				
Safety Equipment	Lighting in Working Order				
Containment	Walls/Floor Free of Cracks/Chips				
	Empty				

300 Series (Acid Room) Treatment / Storage Tanks (T-301 thru T-305)		Yes	No	CORRECTIVE ACTION (Who/What)	COMPLETED (Date or WO#)
Tanks	Free of Spills/Leaks, Corrosion Including Top of Tanks				
	Verify Tank Levels				
	Signage / Markings Present & Legible (Tank Number, Reagent Name, NFPA Diamond, Confined Space, etc.)				
Pumps, Valves, Piping & Transfer Lines, Ancillary Equipment	Free of Leaks, Corrosion, Labeled				
	Hoses in Good Condition, Not Used for Incompatibles, and Managed Properly When Not in Use (Hung up and/or capped and/or stored to prevent leaks), i.e. In Containment				
Containers (Totes, Drums, Pails, etc.)	Staged in Rows with minimum 2' aisle space				
	Incompatibles not stored together (follow DOT segregation)				
	Labels Complete & Legible (Product Name,Waste, DOT/ NFPA, etc)				
	Free of Damage or Deterioration				
	Free of Spills/Leaks				
	Stable Stacking				
	Closed - Lids & Bungs on securely (except when actively adding or removing material)				
Containment	Walls/Floor Free of Cracks/Chips				
	Empty (Check trenches, sumps, etc.)				
Loading/Unloading Areas	Free of Spills, Debris, Accumulated Rainwater				
Emergency Equip.	*Fire Extinguishers - In Working Order / 3' clearance in front				
	*Eye Wash / Shower - Operational / 3' clearance in front				
	Man Doors Accessible (minimum 3' clearance)				
Safety Equipment	Lighting in Working Order				
Rail Siding (From containment berm north of Oil Bldg., south to gate)		**Yes**	**No**	**CORRECTIVE ACTION (Who/What)**	**COMPLETED (Date or WO#)**
Containers	Free of Spills/Leaks				
Pumps, Valves, Piping & Transfer Lines, Ancillary Equipment	Free of Leaks, Corrosion, Labeled				
	Hoses in Good Condition, Not Used for Incompatibles, and Managed Properly.				
Containment	Curb Free of Cracks/Chips				
	Empty (Check trenches, sumps, etc.)				
Loading/Unloading Areas	Free of Spills, Debris, Accumulated Rainwater				
Safety Equipment	Tracks Free of Debris / Excessive Dust Accumulation				
	Gates in Working Order (Gates must be closed and locked at all times except during switches.)				
	Locks Present and Operational				

* Fire Extinguishers are generally located near doors. All should be charged (needle in green section of guage), hung up on brackets, and have signage visible throughout the work area.

* Shower / Eyewash equipment is located: Acid Room-2, Main Plant-2, Reagent Unloading Area - 1, Oil Bldg.-1, Presses - 2 (Portable). Verify flow and flush until water runs clear. Ensure eye wash covers are in place.

Detroit South Monitoring, Operational, and Structural Systems

Chem-Pre Non-Hazardous Waste, Used Oil & Reagents - Daily Inspection

Complete all inspection items daily. If an inspection item is unacceptable at the time of inspection but you are able to fix it right then, complete the "corrective action" and "completed" columns with the appropriate information. If you're unable to correct an unacceptable condition, notify your supervisor or complete a Work Order (WO) for the Maintenance Dept. and enter the WO# in the "completed" column.

Inspector:				Date:	Time:
		Acceptable?			
Used Oil Treatment / Storage Tanks (T-101 thru T-106, T-111 thru T-1117, T-120 thru T-123)		**Yes**	**No**	**CORRECTIVE ACTION (Who/What)**	**COMPLETED (Date or WO#)**
Tanks (Including Reagent Storage Tanks in Oil Treatment Bldg.)	Free of Spills/Leaks, Corrosion				
	Verify Tank Levels				
	Signage / Markings Present & Legible (Tank Number, Used Oil or Reagent Name, Confined Space, Hot, etc.)				
Pumps, Valves, Piping & Transfer Lines, Ancillary Equipment	Free of Leaks, Corrosion				
	Hoses in Good Condition, Not Used for Incompatibles, and Managed Properly When Not in Use (Hung up and/or capped and/or stored to prevent leaks), i.e. In Containment				
Containers (Totes, Drums, Pails, etc.)	Drip Cans Labeled, Covered When Not in Use				
	Labels Complete & Legible (Product Name,DOT or NFPA diamond)				
	Free of Damage or Deterioration				
	Free of Spills/Leaks				
	Closed - Lids & Bungs on securely (except when actively adding or removing material)				
Containment	Walls/Floor Free of Cracks/Chips				
	Empty (Check trenches, sumps, pool, etc.)				
Loading/Unloading Areas	Free of Spills, Debris, Accumulated Rainwater				
Emergency Equip.	Roll-up Doors in Working Order				
	*Fire Extinguishers - In Working Order / 3' clearance in front				
	*Eye Wash / Shower - Operational / 3' clearance in front				
	North & South Man Doors Accessible (minimum 3' clearance)				
	Fire Suppression Pull Stations - Accessible (3' clearance)				
Safety Equipment	Lighting in Working Order				
500-Series Treatment / Storage Tanks (T-513 thru T-516)		**Yes**	**No**	**CORRECTIVE ACTION (Who/What)**	**COMPLETED (Date or WO#)**
Tanks (Including Reagent Storage Tanks in Oil Treatment Bldg.)	Free of Spills/Leaks, Corrosion				
	Verify Tank Levels				
	Signage / Markings Present & Legible (Tank Number, Confined Space, etc.)				
Pumps, Valves, Piping & Transfer Lines, Ancillary Equipment	Free of Leaks, Corrosion				
	Hoses in Good Condition, Not Used for Incompatibles, and Managed Properly When Not in Use (Hung up and/or capped and/or stored to prevent leaks), i.e. In Containment				
Containment	Walls/Floor Free of Cracks/Chips				
	Empty				

NH Treatment / Storage Tanks (East, West, T-107 thru T-110, Press, Surge,etc.)		Yes	No	CORRECTIVE ACTION (Who/What)	COMPLETED (Date or WO#)
Tanks	Free of Spills/Leaks, Corrosion				
	Verify Tank Levels				
	Signage / Markings Present & Legible (Tank Number, Confined Space, etc.)				
Pumps, Valves, Piping & Transfer Lines, Ancillary Equipment	Free of Leaks, Corrosion				
	Hoses in Good Condition, Not Used for Incompatibles, and Managed Properly When Not in Use (Hung up and/or capped and/or stored to prevent leaks), i.e. In Containment				
Filter Press & Roll Off Box	Operational, Free of Leaks				
Containers	Drip Cans Labeled, Covered When Not in Use				
Containment	Walls/Floor Free of Cracks/Chips				
	Empty (Check trenches, sumps, etc.)				
Loading/Unloading Areas	Free of Spills, Debris, Accumulated Rainwater				
Emergency Equip.	*Fire Extinguishers - In Working Order / 3' clearance in front				
	*Eye Wash / Shower - Operational / 3' clearance in front				
	North & South Man Doors Accessible (minimum 3' clearance)				
Safety Equipment	Lighting in Working Order				
Main Plant Reagent Tanks (A-1, C-1, CST-2 thru CST-5)		**Yes**	**No**	**CORRECTIVE ACTION (Who/What)**	**COMPLETED (Date or WO#)**
Tanks	Free of Spills/Leaks, Corrosion				
	Verify Tank Levels				
	Signage / Markings Present & Legible (Tank Number, Reagent Name, NFPA Diamond, Confined Space, etc.)				
Pumps, Valves, Piping & Transfer Lines, Ancillary Equipment	Free of Leaks, Corrosion, Labeled				
	Valves locked when not in use (North Reagent Unloading Area)				
	Hoses in Good Condition, Not Used for Incompatibles, and Managed Properly When Not in Use (Hung up and/or capped and/or stored to prevent leaks), i.e. In Containment				
Containers (Totes, Drums, Pails, etc.)	Labels Complete & Legible (Product Name,DOT or NFPA diamond)				
	Free of Damage or Deterioration				
	Free of Spills/Leaks				
	Closed - Lids & Bungs on securely (except when actively adding or removing material)				
Containment	Walls/Floor Free of Cracks/Chips				
	Empty (Check trenches, sumps, etc.)				
Loading/Unloading Areas	Free of Spills, Debris, Accumulated Rainwater				
Emergency Equip.	*Fire Extinguishers - In Working Order / 3' clearance in front				
	*Eye Wash / Shower - Operational / 3' clearance in front				
	Man Doors Accessible (minimum 3' clearance)				
Safety Equipment	Lighting in Working Order				

* Fire Extinguishers are generally located near doors. All should be charged (needle in green section of guage), hung up on brackets, and have signage visible throughout the work area.

* Shower / Eyewash equipment is located: Acid Room-2, Main Plant-2, Reagent Unloading Area - 1, Oil Bldg.-1, Presses - 2 (Portable). Verify flow and flush until water runs clear. Ensure eye wash covers are in place.

US ECOLOGY DE..OIT SOUTH
Monitoring, Operational, and Structural Systems
Container Staging / Storage Areas - Daily Inspection

Complete all inspection items daily. If an inspection item is unacceptable at the time of inspection but you are able to fix it right then, complete the "corrective action" and "completed" columns with the appropriate information. If you're unable to correct an unacceptable condition, notify your supervisor or complete a Work Order (WO) for the Maintenance Dept. and enter the WO# in the "completed" column.

Inspector:				Date:	Time:
		Acceptable?			
Loading Dock		Yes	No	CORRECTIVE ACTION (Who/What)	COMPLETED (Date or WO#)
Containers	Clear of Stored Containers				
Containment	Dock Well / Containment Sump - Free of Liquid/Debris				
Emergency Equip.	Fire Suppression Pull Stations - Accessible (2 outside, 1 inside)				
	*Wheeled Fire Extinguisher - Accessible / In Working Order				
Safety Equipment	Lighting - In Working Order				
	Dock Plates - Good Integrity				
	Chains - Present, Guarding dock when no trailer present				
	Bonding/Grounding Reel - In Working Order				
Drum Staging Area (Rows 1-12)		Yes	No	CORRECTIVE ACTION (Who/What)	COMPLETED (Date or WO#)
Containers	Staged in Rows with minimum 2' aisle space				
	Incompatibles not stored together (follow DOT segregation)				
	Labels Complete & Readable (waste, bar code, DOT diamond)				
	Free of Damage or Deterioration				
	Free of Spills/Leaks				
	Stable Stacking (9' high maximum, if flammable liquids plastic bungs must be used when containers are stacked)				
	Number of containers is below permitted amount (54,340 gal.= 988 (55 gal.) drums)				
	Closed - Lids & Bungs on securely (except when actively adding or removing waste)				
Containment	Curbing/Floor Free of Cracks/Chips				
	Trenches Free of Liquid/Debris (outside north door & row 11)				
Emergency Equip.	Roll-up Doors in Working Order				
	*Fire Extinguishers - In Working Order / 3' clearance in front				
	*Eye Wash / Shower - Operational / 3' clearance in front				
	Spill Kit - Accessible / Stocked				
	South & East Man Doors Accessible (minimum 3' clearance)				
Safety Equipment	Lighting in Working Order				
Chem-Fix Container Storage Area		Yes	No	CORRECTIVE ACTION (Who/What)	COMPLETED (Date or WO#)
Containers (excluding roll-off boxes)	Stored in Rows with minimum 2' aisle space				
	Incompatibles not stored together (follow DOT segregation)				
	Number of containers is below permitted amount (130,120 gal.= 2366 (55 gal.) drums)				
	Labels Complete & Readable (waste, bar code, DOT diamond)				
	Free of Damage or Deterioration				
	Free of Spills/Leaks				
	Closed - Lids & Bungs on securely (except when actively adding or removing waste)				

Warehouse (Rows 13-36A/B)		Yes	No	CORRECTIVE ACTION (Who/What)	COMPLETED (Date or WO#)
Containers	Stored in Rows with minimum 2' aisle space				
	Incompatibles not stored together (follow DOT segregation)				
	Labels Complete & Readable (waste, bar code, DOT diamond)				
	Free of Damage or Deterioration				
	Free of Spills/Leaks				
	Number of containers is below permitted amount (100,430 gal.= 1826 (55 gal.) drums)				
	Closed - Lids & Bungs on securely (except when actively adding or removing waste)				
	Stable Stacking (9' high maximum, if flammable liquids plastic bungs & pallets must be used when containers are stacked.)				
	Universal Waste - Labels w/ correct Universal Waste description (see EQ label), containers closed, bulb boxes taped, area neat				
	Used Oil - Stored in rows, labels correct (must say "Used Oil" on waste label or bar code), bungs on securely, no spills or leaks				
	Flam. Gas Storage - Cylinders secure, combustibles & incompatibles >20'				
Containment	Curbing/Floor Free of Cracks/Chips				
	Trench Free of Liquid/Debris (outside north)				
Emergency Equip.	Roll-up Doors in Working Order				
	*Fire Extinguishers - In Working Order / 3' clearance in front				
	*Eye Wash / Shower - Operational / 3' clearance in front				
	South & East Man Doors Accessible (minimum 3' clearance)				
Safety Equipment	Lighting in Working Order				
North Container Storage Pad		**Yes**	**No**	**CORRECTIVE ACTION (Who/What)**	**COMPLETED (Date or WO#)**
Containers	Stored in Rows with minimum 2' aisle space				
	Incompatibles not stored together (follow DOT segregation)				
	Labels Complete & Readable (waste, bar code, DOT diamond)				
	Free of Damage or Deterioration				
	Free of Spills/Leaks				
	Number of containers is below permitted amount (80,800 gal.= 1469 (55 gal.) drums)				
	Stable Stacking (9' high maximum, if flammable liquids plastic bungs must be used when containers are stacked)				
	Closed - Lids & Bungs on securely (except when actively adding or removing waste)				
Containment	Berm/Concrete Surfaces Free of Cracks/Chips				
	Trench Free of Liquid/Debris				
Emergency Equip.	*Fire Extinguishers - In Working Order / 3' clearance in front				
	*Wheeled Fire Extinguisher - Accessible / In Working Order				

* Fire Extinguishers are generally located near doors (Dock ~2 + 1 Wheeled & 1 in each forklift, Warehouse ~4, North Pad ~2 + 1 Wheeled). All should be charged (needle in green section of guage), hung up on brackets, and have signage visible throughout the work area.

* Shower / Eyewash equipment is located: Dock-1, Warehouse-2, Hallway-1. Verify flow and flush until water runs clear. Ensure eye wash covers are in place.

US ECOLOGY DETROIT SOUTH
Monitoring, Operation, and Structural Systems
Chem Fix - Daily Inspection

Complete all inspection items daily. If an inspection item is unacceptable at the time of inspection but you are able to fix it right then, complete the "corrective action" and "completed" columns with the appropriate information. If you're unable to correct an unacceptable condition, notify your supervisor or complete a Work Order (WO) for the Maintenance Dept. and enter the WO# in the "completed" column.

Inspector:			Date:	Time:
	Acceptable?			

Treatment Tanks (T-20 through T-706)		Yes	No	CORRECTIVE ACTION (Who/What)		COMPLETED (Date or WO#)
Tanks	Free of visible leaks					
	Curbing clean / free of debris					
Containment	Tank walls / floor free of cracks, chips, etc.					
	sample ports empty / free of debris					
Emergency Equipment	*T-701 gas meter					
	* Fire suppression system sensors					
	*check panel in fire suppression room. If system status is not normal, record code on this form and notify Manger and / or maintenance department. It may be necessary to stage the water truck and wheeled fire extinguisher inside the building until system is fully operational.					

Operating Floor		Yes	No	CORRECTIVE ACTION (Who/What)		COMPLETED (Date or WO#)
Containers (roll-off boxes & reagent storage)	Hazardous Waste-Staged in Rows with minimum 2' aisle space					
	Labels visible, complete, readable (waste, products, etc.)					
	Free of damage or deterioration					
	Free of spills / leaks					
	Roll-Off Boxes Covered					
	Stable Stacking					
Containment	Floor free of cracks, chips, etc.					
	Sumps Free of Liquid / Debris, Grates in Good Repair					
Emergency Equipment	Roll-up doors in working order					
	*Fire extinguishers - In working order / 3' clearance in front					
	*Eye wash - operational / 3' clearance in front					
	All man doors accessible (minimum 3' clearance)					
Safety Equipment	Lighting in Working Order					

Pug Mill		Yes	No	CORRECTIVE ACTION (Who/What)		COMPLETED (Date or WO#)
Operations Equipment	Screw feeders, mixers, conveyors - operational					
	Control Room - Free of excessive dust accumulation (excessive = dust interferes with equipment operation or presents an additional H&S or Environmental Compliance risk.)					
	Control Room - Lighting adequate, operational					
Safety Equipment	Machine guards in place and functional					

Air Pollution Control Equipment		Yes	No	CORRECTIVE ACTION (Who/What)		COMPLETED (Date or WO#)
Negative Pressure	Doors to building closed except during truck ingress and egress (never more than 2 rail / truck doors open at once)					
	No visible emissions for either stack					
	No dust, steam, or odors leaving the building					
Reagents (S-1, S-2, S-3, S-4) / Waste (H-1) Storage Silos		**Yes**	**No**	**CORRECTIVE ACTION (Who/What)**		**COMPLETED (Date or WO#)**
Tanks	Free of damage or deterioration (Transfer Lines, Valves, Silos)					
	Free of spills / leaks (Transfer Lines, Valves, Silos)					
	High level indicator functioning (check computer in Air System control room)					
Health & Safety Compliance	Free of dust accumulation under silos (on catwalk an in containment area)					
	Hoses stored neatly when not in use					
Tank 901		**Yes**	**No**	**CORRECTIVE ACTION (Who/What)**		**COMPLETED (Date or WO#)**
Tanks	Free of spills / leaks					
	High level indicator functioning (tank level may be checked visually. Is there enough freeboards to prevent overflow?)					
Health & Safety Compliance	Covered by grates (always) or steel cover (except when actively adding or removing waste)					
Containment	Sumps Free of Liquid / Debris, Grates in Good Repair (east of offloading trench)					
North Side		**Yes**	**No**	**CORRECTIVE ACTION (Who/What)**		**COMPLETED (Date or WO#)**
Containment	Free of track-out / dust accumulation					
	Free of spills and accumulated rainwater					
Health & Safety Compliance	Straw trailer - stairs in good condition					
Rail (from containment berm south of baghouses through bldg., to end of tracks on North Side)		**Yes**	**No**	**CORRECTIVE ACTION (Who/What)**		**COMPLETED (Date or WO#)**
Safety Equipment	Tracks free of debris / excessive dust accumulation					
	brakes set on any car where work is occurring					
	Blue flag in place)required for work occurring on cars staged south of the building. Flag is located at the southernmost end of the spur.					
Containers	Waste in cars located outside is covered					
**Fire extinguishers are generally located near doors (~7 mounted on the walls outside of building 1 in all equipment. All should be charged (needle should be in green section of gauge)*						
**Eyewash equipment is located: Hallway - 1. There is also a shower / eyewash unit on the north side of chem fix. Verify flow and flush until water runs clear. Ensure cover is in place.*						

Detroit South Monitoring, Operational, and Structural Systems

Depack Areas - Daily Inspection

Complete all inspection items daily. If an inspection item is unacceptable at the time of inspection, but you are able to fix it right then, complete the "corrective action" and "completed"columns with the appropriate information. If you are unable to correct an unacceptable condition, notify your supervisor or complete a Work Order (WO) for the Maintenance Dept. and enter the WO# in the "completed" column.

Inspector:				Date:	Time:
		Acceptable?			
Drum Storage Bay (Rows 37 - 40)		Yes	No	**CORRECTIVE ACTION (Who/What)**	**COMPLETED (Date or WO#)**
Containers	Staged in Rows with minimum 2' aisle space				
	Incompatibles not stored together (follow DOT segregation)				
	Labels Complete & Readable (waste, bar code, DOT diamond)				
	Free of Damage or Deterioration				
	Free of Spills/Leaks				
	Stable Stacking (9' high maximum, if flammable liquids plastic bungs must be used when containers are stacked)				
	Closed - Lids & Bungs on securely (except when actively adding or removing waste)				
Containment	Floor Free of Cracks/Chips				
	Sump Free of Liquid/Debris				
Emergency Equip.	Roll-up Doors in Working Order				
	*Fire Extinguishers - In Working Order / 3' clearance in front				
	Fire Suppression Pull Stations Accessible / 3' clearance in front				
	*Eye Wash / Shower - Operational / 3' clearance in front				
	Spill Kit - Accessible / Stocked				
	East & West Man Doors Accessible / minimum 3' pathway leading up to door				
Safety Equipment	Lighting in Working Order				
	Traction Tape - In Good Condition				
DEA Storage		Yes	No	**CORRECTIVE ACTION (Who/What)**	**COMPLETED (Date or WO#)**
Containers	Labels Complete & Readable (waste, bar code, DOT diamond)				
	Free of Damage or Deterioration				
	Free of Spills/Leaks				
	Stable Stacking				
	Closed - Lids & Bungs on securely (except when actively adding or removing waste)				
Emergency Equip.	*Fire Extinguishers - In Working Order / 3' clearance in front				
Safety Equipment	Gate and Safes Locked				

Depack Booth		Yes	No	CORRECTIVE ACTION (Who/What)	COMPLETED (Date or WO#)
Containers	Labels Complete & Readable (waste, bar code, DOT diamond)				
	Free of Damage or Deterioration				
	Free of Spills/Leaks				
	Closed - Container Lids & Bungs on securely (except when actively adding or removing waste)				
	Flammable Trash Container Closed and Labeled				
	Flammables Cabinet Closed (total volume within mfg. spec.)				
Containment	Free of Liquid				
Emergency Equip.	Escape Respirator present, accessible / 3' clearance in front				
	*Wheeled Fire Extinguisher - Accessible / In Working Order				
	Fire Suppression-Charged / 3' clearance in front of Pull Stations				
Safety Equipment	Bonding/Grounding Clips - In Working Order				
	Static Mat in Good Condition				
	Hood Ventilation Operational - sash height marked				
	Lighting in Working Order				
Drum Storage Pad (Rows 41-47)		**Yes**	**No**	**CORRECTIVE ACTION (Who/What)**	**COMPLETED (Date or WO#)**
Containers	Stored in Rows with minimum 2' aisle space				
	Flammables at least 50' from property line				
	Incompatibles not stored together (follow DOT segregation)				
	Labels Complete & Readable (waste, bar code, DOT diamond)				
	Free of Damage or Deterioration				
	Free of Spills/Leaks				
	Stable Stacking (9' high maximum, if flammable liquids plastic bungs must be used when containers are stacked)				
	Closed - Lids & Bungs on securely (except when actively adding or removing waste)				
	Trash Roll Off in good condition, not overflowing or leaking				
Containment	Curb / Concrete Surfaces Free of Cracks/Chips				
Emergency Equip.	*Fire Extinguisher - In Working Order / 3' clearance in front				
	*Eye Wash / Shower - Operational / 3' clearance in front				
Storage Trailer		**Yes**	**No**	**CORRECTIVE ACTION (Who/What)**	**COMPLETED (Date or WO#)**
Trailer	Good integrity - free of damage or deterioration				
	Placarded correctly when loaded				
	Doors closed except when loading or unloading				
Containers	Incompatibles not stored together (follow DOT segregation)				
	Labels Complete & Readable (waste, DOT diamond)				
	Free of Damage or Deterioration				
	Free of Spills/Leaks				
	Stable Stacking (shrink-wrapped, load locked, etc.)				
	Closed - Lids & Bungs on securely				
	Paperwork for all containers located in hanging file on office wall				

* Fire Extinguishers are generally located near doors (Bay ~3, DEA ~2, Pad~1). All should be charged (needle in green section of guage), hung up on brackets, and have signage visible throughout the work area.

* Shower / Eyewash equipment is located: Bay-1, Pad-1. Verify flow and flush until water runs clear. Ensure eye wash covers are in place.

FIGURE O-2: Weekly Inspection Logs

US ecology

DETROIT SOUTH WEEKLY SURFACE CONDITIONS INSPECTION

Date: **Inspector:**

Area	Condition Good	Condition Poor	Observations	Repair Date	Requirement (Permit, SPCC, BMP)
Chem-Pre Interior	☐	☐	•		Permit
Acid Room Interior	☐	☐	•		Permit
Chem-Pre Unloading Areas	☐	☐	•		Permit
Rail Containment	☐	☐	•		Permit
6-Pack & Oil Building	☐	☐	•		SPCC
Oil Treatment Pond	☐	☐	•		SPCC
Aquastore Containment	☐	☐	•		SPCC
Chem-Fix Interior	☐	☐	•		Permit
Chem-Fix Exterior *Verify no tracks	☐	☐	•		Permit
North Container Storage Area	☐	☐	•		Permit
North Container Staging Area	☐	☐	•		Permit
North Container Storage Pad	☐	☐	•		Permit
Labpack Bay	☐	☐	•		Permit
T&P Container Pad	☐	☐	•		Permit
Truck Traffic Areas	☐	☐	•		BMP
Employee Parking Areas	☐	☐	•		BMP/OSHA
Employee Walking / Working Surfaces not covered above	☐	☐	•		MIOSHA Part 2

FIGURE O-3: Monthly Inspection Log

US ecology

Detroit South Safety, Security, Emergency Equipement Monthly Inspection

Inspector:				Month:			
DESCRIPTION (Quantity)	LOCATION	Yes	No	CORRECTIVE ACTION (Who, What)			COMPLETED (When)
I. Security							
Perimeter Fence -- Intact, Secure	Perimeter						
Warning Signs -- Present	Perimeter Fence						
II. Fire Extinguishing Systems							
Fire Extinguishers	Laboratory						
Fire Extinguishers	Main Plant						
Fire Extinguishers	Oil/Water Area						
Fire Extinguishers	Chem Fixation						
Fire Extinguishers	Drum Storage						
Fire Extinguishers	Labpack						
Fire Extinguishers	Receiving						
III. Spill Control Equipment							
Drain Block -- Visquene/weight	Plant Spill Kits						
Front End Loader	On-site						
Sweeper with backup alarm & Water	On-site						
Absorbents	Plant/Spill Kits						
IV. Communications & Alarm Systems							
	Daily systems check: X'd =ok 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19						
Radio /Telephone	20 21 22 23 24 25 26 27 28 29 30 31						
Radio /Telephone	Security						
Radio /Telephone	Receiving						
Radio /Telephone	Laboratory						
Radio /Telephone	Plant						
Emergency Coordinator & Alternate's	Personal						
V. Decontamination Equipment	**Weekly Shower & Eyewash check: X'd = OK**						
Shower & Eyewash	Laboratory			WEEK 1	WEEK2	WEEK3	WEEK4
Shower & Eyewash	Main Plant			WEEK 1	WEEK2	WEEK3	WEEK4
Shower & Eyewash	Oil/Water Area			WEEK 1	WEEK2	WEEK3	WEEK4
Shower & Eyewash	Drum Storage			WEEK 1	WEEK2	WEEK3	WEEK4
Shower & Eyewash	Labpack			WEEK 1	WEEK2	WEEK3	WEEK4
Shower	Locker Room			WEEK 1	WEEK2	WEEK3	WEEK4

Respiratory protective equipment can only be issued by the Regulatory Specialist to trained and medically fit employees.

EQUIPMENT CAPABILITIES & INSPECTION CRITERIA

Verify that perimeter fence is intact and secure to prevent unknowing entry to the site.
Verify that warning signs are visable and present to prevent unknowing entry to the site.

II. Fire Extinguishing Systems

Verify that units are at the locations and in the quantities indicated in this inspection report to enable quick access to equipment for fire suppression.
Inspect to determine that all units are maintaining adequate discharge pressure to ensure effective fire suppression.
Verify that maintenance/service contract(s) are being fulfilled by vendor.

III. Spill Control Equipment

Front End Loader: Determine the present, on-site availability of the equipment to move absorbents or sand and contained/absorbed spill residues.
Sweeper & Water Truck: Determine the present, on-site availability of the equipment to clean up contained spill residues.
Verify that visquene and weight is available to block drains and provide containment of spilled materials.
Verify that at least 1 pallet of absorbent is available to soak up spilled, contained material.

IV. Communications & Alarm Systems

Record daily check that phone system and radios are working with a mark on the date to indicate "OK" on the day inspected.
Verify functional status of base stations and radio equipment used in the waste processing area to allow immediate on-site notification/communication about incident.
Verify telephone service provides communications between waste processing plant and Security, Receiving, Lab, and the Emergency Coordinators phones.

V. Decontamination Equipment

Record weekly check that Showers and Eyewashes are working with a mark on the inspection week to indicate "OK" on the day inspected.
Verify that showers and eyewash are covered properly to provide a clean supply of water to rinse body parts affected by chemicals.
Verify that all areas/equipment are operational to provide water to rinse chemicals from equipment.