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WASTE MANAGEMENT

Jeff Altman
Environmental Protection Manager
Waste Management
5903 63rd Avenue CT NW
Gig Harbor, WA 98335
(253)509-0375; (713)286-7541 Fax

March 19, 2012

Metro Finance and Regulatory Services
Solid Waste Compliance and Cleanup
600 NE Grand Avenue
Portland, OR 97232-2736

Re: Non-Putrescible Materials Conversion Processing Facility License Application for WM Agilyx Wastech, 701 N. Hunt Portland, OR 97218

Dear Sirs:

Waste Management of Oregon, Inc. is submitting the attached completed Non-Putrescible Materials Conversion Processing Facility License Application to obtain coverage for the above-referenced new facility. The Application includes the following tabbed supplemental information contained in the binder: Site Plan (Tab 1); Facility Design Plan Report (Tab 2); Material Recovery & Conversion Practices (Tab 3); Operation Plan (Tab 4); Insurance Coverage Information (Tab5); Land Use Compatibility Statement (Tab 6); and, Permits Issued or In Process (Tab 7)

Also attached is a check for $300.00 for the license application filing fee.

Waste Management looks forward to receiving the License as soon as possible and is ready to provide any additional information you need for the application to issue the License.

If you have any questions, please contact me at (360) 801-5239.

Sincerely,

Jeff Altman

Jeff Altman
Area Environmental Manager

cc: Rob Hallenbeck, WM
Matt Stern, WM
Adam Winston, WM
Rita Hansen, Agilyx
Justin Rath, Agilyx

600 NORTHEAST GRAND AVENUE | PORTLAND, OREGON 97232 2736
TEL 503 797 1700 | FAX 503 797 1797

METRO

www.oregonmetro.gov

Non-Putrescible Materials Conversion Processing Facility License Application

METRO MATERIALS CONVERSION PROCESSING FACILITY LICENSE APPLICATION PACKET

METRO

Issued: November 2011

This packet contains an application for a Metro Materials Conversion Processing Facility License. You may also want to review the relevant sections of the Metro Code. The Metro Code can be accessed via the Metro web site at www.oregonmetro.gov. Processing, recovery and conversion facilities within the Metro boundary generally may operate only under the authorization of a License or Franchise.

Non-Putrescible Materials Conversion Processing

Chapter 5.01 of the Metro Code provides that a license shall be required of the person owning or controlling a facility at which processing of non-putrescible waste is performed.

Materials conversion processing is a form of resource recovery that involves non-putrescible waste. It is distinguished from other types of resource recovery and processing in that it converts non-putrescible solid waste from a waste or material to a useful form of fuel and/or a useable by-product dissimilar to the original feedstock and it generally results in some residual. These conversion processes may be thermal, chemical, mechanical or a combination, but do not generate energy on-site ("energy recovery") and are not incineration.

Depending on the specific type of conversion technology, pre-processing of non-putrescible solid waste or material is typically necessary and may include sorting, separation, size reduction, and densification.

Examples of materials conversion processing can include: pyrolysis, gasification. plasma gasification, thermal de-polymerization and catalytic cracking of plastic.

Application for a New Materials Conversion Processing Facility License

Those wishing to apply for a new Metro Materials Conversion Processing Facility License must schedule a pre-application conference prior to submitting a final application form. Applicants should prepare for the pre-application conference by reviewing the application forms and drafting answers prior to the conference with Metro. To schedule the pre-application conference, contact Metro's Solid Waste Compliance and Cleanup Division at (503) 797-1835. The purpose of the pre-application conference is to discuss the license application process and to identify any potential issues specific to your proposal. Applications for new licenses are generally granted or denied within 120 days of the filing of a complete application. (See Metro Code section 5.01.060.) The fee for filing a license application is $300.

Renewal of an Existing License

Those wishing to renew an existing authorization without substantive changes to the current authorization must submit a completed *Renewal Application Form*, unless otherwise directed by Metro staff. License renewal applications must be submitted not less than 60 days prior to expiration of the existing license. Failure to submit applications in a timely fashion may result in a lapse of authority to operate. (See Metro Code section 5.01.087.) The fee for filing a license renewal application is $300.

Change of Authorization to an Existing License

A change in authorization of an existing license requires an application for a formal license amendment. The applicant cannot implement the change of authorization until it has been approved by Metro. (See Metro Code section 5.01.095.) The fee for filing an application for a change of authorization is $100.

Change of Ownership or Control of an Existing License

To transfer ownership or control of an existing license, an application for a formal license amendment is required. The applicant cannot transfer ownership or control of an existing license until it has been approved by Metro. (See Metro Code section 5.01.090.)

METRO

MAIL THIS APPLICATION TO:

Metro Finance and Regulatory Services
Solid Waste Compliance and Cleanup
600 NE Grand Avenue
Portland, OR 97232-2736
(503) 797-1835

DATE RECEIVED BY METRO:

MAR 20 '12 PM12:35

Date of Pre-Application Conference: February 24, 2012

Non-Putrescible Materials Conversion Processing Facility License Application

PART 1 – Standard License Application Information

Applicants applying to conduct materials conversion processing must provide the following information:

1. Applicant (Proposed Licensee)	
Facility Name:	WM Agilyx Wastech
Company Name:	Waste Management of Oregon, Inc.
Street Address:	701 North Hunt St.
Mailing Address:	Same
City/State/Zip:	Portland, OR 97218
Registered Agent	Adam Winston
Contact Person:	Matt Stern
Phone Number:	503-894-1160
Fax Number:	800-481-1395
E-mail Address:	mstern@wm.com

2. Proposed Licensee's Owner or Parent Company (provide information for all owners)	
Name:	Waste Management of Oregon, Inc.
Address:	7227 NE 55th Ave.
City/State/Zip:	Portland, OR 97218
Phone Number:	503-493-7858
Fax Number:	503-493-7883
E-mail Address:	awinston@wm.com

3. Site Operator (if different from Proposed Licensee)	
Company Name:	Same as above.
Contact Person:	
Street Address:	
Mailing Address:	
City/State/Zip:	
Phone Number:	
Fax Number and E-mail Address:	

4. Site Description			
Tax Lot(s): 1N1E10BD-01500, 01400,01200	Section: 10	Township: 1N	Range: 1E

5. Land Use	
Present Land Use Zone:	**1-H**
Is proposed use permitted outright?	**Yes. City of Portland approved the LUCS on 3/25/11.**
❑ If yes, attach a copy of a completed Metro or DEQ Land Use Compatibility Statement. (See also, Attachment F requirements)	
Is a conditional use permit (CUP) necessary for the facility?	**No**
❑ If yes, attach a copy of the CUP.	
Are there any land use issues presently pending?	**No**
If yes, explain:	
Are any DEQ permits required?	**No**
❑ If yes, list them and attach copies with this application. (See also, Attachment G requirements)	
Are any other local permits required? If yes, list them (see Attachment H requirements).	**Wastewater Discharge Permit (City of Portland/BES)** **Air Contaminant Discharge Permit (Oregon DEQ)**

6. Land Owner		
Is the applicant the sole owner of the property on which the facility is located?	■ YES	☐ NO (If you answer "NO", complete the rest of the information requested in this section and attach a copy of the Property Use Consent Form, signed by the owner(s) of the property. See Attachment J)
Name of Property Owner:	Waste Management of Oregon, Inc.	
Mailing Address:	7227 NE 55th Ave	
City/State/Zip:	Portland, OR 97218	
Phone Number:	503-493-7858	

7. Public/Commercial Operations		
Will the facility be open to the public?	☐ YES	■ **NO**
Will the facility be open to non-affiliated commercial solid waste collectors?	■ YES [if pre-certified]	☐ **NO**
Will the facility be open to solid waste collection companies that collect waste from outside the boundary of Metro?	■ YES [if pre-certified]	■ **NO**

Operating Hours and Traffic Volume:	PUBLIC	COMMERCIAL AFFILIATED	COMMERCIAL NON-AFFILIATED
Operating Hours	N/A	24/7; 2 Shifts each day (7am-7pm, 7pm-7am).	
Estimated Vehicles Per Day		40	

8. Waste / Materials To Be Accepted and Activities Conducted

For each material type accepted at the facility, list the expected posted public tip fee: (attach additional pages if necessary)

WASTES / MATERIALS TO BE ACCEPTED	EXPECTED PUBLIC TIP FEE
Prepared plastic product	N/A, Plastic comes from inter-company or private facilities.

Describe the purpose (activities to be performed and waste / material types to be received) of the proposed facility, include an estimate of the quantity of waste / materials to be received annually.

WASTE / MATERIAL TYPE	PURPOSE	QUANTITY
Prepared plastic product	Feedstock material used to manufacture synthetic crude oil.	40 TPD (14,225 TPY)

Solid Waste, and/or Solid Waste Residual from materials conversion processing of waste / materials delivered to this facility will be reloaded for transport to the following facility or facilities: (Please list all facilities and include additional pages if necessary.)

FACILITY NAME	WASTE TYPE	WASTE QUANTITY	PURPOSE *
TBD- End-user and/or disposal location(s) to be identified.	Solid Carbon Material (SCM) is a by-product of the manufacturing process.	We expect quantity to be approx. 7% of the original converted plastic batch.	SCM is high in both carbon content and BTU content. The BTU content has an energy value of approximately 8,000 BTU's per pound. SCM will be sold as a useful material to users.

* For example: Disposal, Inert Fill, or Useful Material

Provide the name, address and function of all subcontractors involved in the facility operations:

NAME	ADDRESS	FUNCTION
Agilyx Corporation	7904 SW Hunziker, Tigard, OR 97223	Facility Operator

List the anticipated quantity of materials to be accepted annually:

BY GENERATOR TYPE:

	Tons Received	Tons Recovered/Converted	Tons Residual
• Commercial:			
• Industrial:			
• Residential:			
TOTAL	Prepared Plastic Feedstock (14,225 TPY)	Synthetic Crude Oil (10,934 TPY)	

BY MATERIAL TYPE:	Will you recover or convert materials from this waste?			
	Tons	YES	NO	Estimate of the maximum and typical lengths of time required to process each day's receipt of each waste / material type:
• Non-Putrescible Recoverable Materials:			X	
• Source-Separated Recyclable Materials:		X		The facility will be operated continuously, 24 hrs each day. Feedstock will be processed in batches throughout the 24-hr period so that the synthetic crude oil product is being constantly manufactured.
• Source-Separated Yard Debris:			X	
• Special Wastes:			X	
• Inerts:			X	
• Petroleum Contaminated Soil:			X	
• Other:				

PART 2 – Standard Attachments to License Application (License application form continued)

- All of the following attachments (Attachments A – J) are required and must be submitted in order for a license application to be considered complete. Each attachment must be clearly labeled.
- Applicants who have previously submitted copies of permits, site plans, facility design plans, or other attachments required herein, are not required to re-submit such documents if the documents on file at Metro are current.

ATTACHMENT A: SITE PLAN – SEE TAB 1 The applicant must submit a facility site plan that includes scaled maps and drawings showing the location of the facility at an appropriate scale, and no smaller than one inch equals 30 feet. The following information must be provided:	
(1)	Boundaries of the facility.
(2)	Property boundaries, if different.
(3)	Location of all buildings on the property (existing and proposed) and other pertinent information with respect to the operation of the facility, to include: a) scale location b) scale house c) sorting line and other major materials recovery equipment d) fencing and gates e) access roads f) paved areas
(4)	Location of receiving, processing, reload and storage areas, as applicable, for solid waste, source-separated recyclable materials, recovered materials, waste residuals, exterior stockpiles, hazardous waste, and other materials.
(5)	Identify any exterior stockpile footprints, the type of materials and the maximum height of each exterior material stockpile.
(6)	Designate the load checking areas on the facility site plan.
(7)	Designate the location for the storage of prohibited wastes removed during the load checking process that is separately secured or isolated. Containment areas shall be covered and enclosed and constructed to prevent leaking and contamination
(8)	Designate on-site traffic flow patterns.

(9) **Identify where the sign(s) will be located on the facility site plan.**

Signs must be posted at all public entrances to the facility, and in conformity with local government signage regulations. These signs shall be easily and readily visible, and legible from off-site during all hours and shall contain at least the following information:

- General facility information
  -Name of the facility
  -Address of the facility;
  -Emergency telephone number for the facility;
  -Operating hours during which the facility is open for the receipt of authorized waste;
  -Fees and charges for public customers;
  -Metro's name and telephone number (503) 234-3000; and
  -A list of authorized and prohibited wastes.
- Vehicle / traffic flow information or diagram.
- Covered load requirements.

ATTACHMENT B: FACILITY DESIGN PLAN REPORT – SEE TAB 2 The applicant shall submit a facility design plan report to address the following:

(1) **Dust, airborne debris and litter.**

a) Provide a facility design plan. Describe whether or not the proposed design will include an enclosed roofed structure and an impervious surface (e.g. asphalt, concrete) for the tipping floor, processing (sorting) areas, storage areas and reloading areas. Provide facility design plans

b) Describe proposed control measures to prevent fugitive dust, airborne debris and litter. Describe how the facility design will provide for shrouding and dust prevention for the receiving area, processing area, storage area, reload area, and all dry waste processing equipment and all conveyor transfer points where dust is generated.

c) Describe any additional facility design measures and procedures for the control of dust, windblown materials, airborne debris, litter and for the handling of the waste in the case of major processing facility breakdown.

(2) **Facility capacity.**

a) Provide facility site plans, reports or other specifications to document that the size and configuration of the facility grounds, building and equipment, building design, and major facility equipment, processing systems and storage areas are of sufficient capacity to accommodate seasonal throughput of all materials that will be delivered to and generated by the facility.

b) Provide the estimated capacity (cubic yards) of the facility storage area(s) for incoming materials waiting to be processed, the estimated capacity (cubic yards) for storage of recovered materials, and the estimated capacity (cubic yards) for storage of processing residual.

(3) **Adequate vehicle accommodation.**

Provide documentation to demonstrate that adequate on-site area at the facility's entrance, scales, loading and unloading points and exit points shall be provided to allow the number and types of vehicles expected to use the facility during peak times to safely queue off the public roads and right-of-way.

(4)	**Water contaminated by solid waste and solid waste leachate.** Submit a DEQ (or equivalent) approved plan with pollution control measures to protect surface and ground waters, including runoff collection and discharge and equipment cleaning and washdown water.

ATTACHMENT C – MATERIAL RECOVERY AND CONVERSION PRACTICES – SEE TAB 3 Describe how material recovery and conversion will be conducted at the facility. Attach as many additional pages as necessary to address each of the following:	
(1)	A detailed description of how the proposed facility will further recycling or materials recovery / conversion within the Metro region.
(2)	A detailed description of the methods you will use for measuring and keeping records of incoming materials.
(3)	A detailed description of the steps you will take to recover materials and the conversion process. Include the material recovery and conversion methods and equipment to be used on site (e.g., sorting lines, hand picking, magnets, etc.)
(4)	The general markets for the materials recovered / converted at the facility.
(5)	A detailed description of the methods you will use for measuring and keeping records of wastes / materials received, recovered / converted from processing, and solid waste disposed - consistent with Metro's reporting requirements.

ATTACHMENT D: OPERATING PLAN – SEE TAB 4 The applicant is required to develop and submit an operating plan for review and approval by Metro's Solid Waste Compliance and Cleanup Manager. This section lists the procedures that must be included in the required facility operating plan. A proposed facility operating plan must be submitted with the completed license application subject to any additional elements as required in the license - if one is approved and issued. The operating plan shall describe at a minimum:	
(1)	The types of wastes / materials to be accepted and handled at the facility.
(2)	A detailed description of how you will distinguish and manage loads of incoming source-separated recyclables, non-putrescible waste and materials from other materials not subject to recovery or conversion.
(3)	Procedures for inspecting loads. The operating plan shall establish: a) Procedures for inspecting incoming loads for the presence of prohibited or unauthorized waste and materials. b) A set of objective criteria for accepting and rejecting loads. c) An asbestos testing protocol for all material that appears as if it may contain asbestos.
(4)	Procedures for processing and storage of loads. The operating plan shall establish procedures for: a) Processing of all authorized waste / materials. b) Reloading and transfer of authorized waste, materials and processing residuals. c) Managing stockpiles. d) Storing authorized waste, materials and processing residuals e) Minimizing storage times, and avoiding delay in processing and managing of all authorized materials and processing residuals.

(5)	Procedures for rejecting or managing prohibited wastes / materials. The operating plan shall describe procedures for rejecting, managing reloading and transporting to appropriate facilities or disposal sites any prohibited or unauthorized materials or wastes discovered at the facility. The plan shall include procedures for managing: a) Hazardous wastes. b) Other prohibited solid wastes (e.g., putrescible waste, special waste). c) Procedures and methods for notifying generators not to place hazardous wastes or other prohibited wastes in drop boxes or other collection containers destined for the facility.
(6)	Procedures for odor prevention. The operating plan shall establish procedures for preventing all objectionable odors for being detected off the premises of the facility. The plan must include: a) A management plan that will be used to monitor and manage all objectionable odors of any derivation including malodorous loads delivered to the facility. b) Procedures for receiving and recording odor complaints, immediately investigating any odor complaints to determine the cause of odor emissions, and remedying promptly any odor problem at the facility.
(7)	Procedures for emergencies. The operating plan shall describe procedures to be followed in case of fire or other emergency.
(8)	Procedures for preventing and controlling nuisances, including noise, vectors, dust, litter, and odors. Include a description of how you will encourage delivery of materials in covered loads.
(9)	Procedures for fire prevention, protection, and control measures used at the facility.

ATTACHMENT E: INSURANCE – SEE TAB 5 Include proof of the following types of insurance, covering the applicant, its employees, and agents:	
(1)	Broad form comprehensive general liability insurance covering bodily injury and property damage, with automatic coverage for premises, operations, and product liability. The policy must be endorsed with contractual liability coverage.
(2)	Automobile bodily injury and property damage liability insurance.
(3)	Insurance coverage shall be a minimum of $500,000 per occurrence. If coverage is written with an annual aggregate limit, the aggregate limit shall not be less than $1,000,000.
(4)	Metro, its elected officials, departments, employees, and agents must be named as ADDITIONAL INSUREDS.

ATTACHMENT F: LAND USE COMPATIBILITY STATEMENT (LUCS) – SEE TAB 6 The following information must be provided:
A copy of a completed Metro LUCS or DEQ LUCS. Metro LUCS is available at www.oreognmetro.gov.

ATTACHMENT G: DEQ PERMIT APPLICATIONS AND INFORMATION – NOT APPLICABLE; APPLICANT HAS NO DEQ PERMIT APPLICATIONS CURRENT BEING PROCESSED FOR THE FACILITY.

The following information must be provided:

A duplicate copy of all applications for necessary DEQ permits and any other information required by or submitted to DEQ, including closure plans, financial assurance for the costs of closure of the facility, and conditional use permit or land use compatibility statement, if applicable.

ATTACHMENT H: OTHER REQUIRED PERMITS – SEE TAB 7

The following information must be provided:

A copy of any required federal, state, county, city or other permits, licenses, or franchises that have been granted or issued, not including materials required by Attachment G, or a copy of any applications for such other permits, licenses, or franchises. Copies of correspondence pertaining to such permits, licenses or franchises may be requested.

ATTACHMENT I: CLOSURE PLAN AND FINANCIAL ASSURANCE – NOT APPLICABLE, THE REQUESTED INFORMATION IS NOT APPLICABLE NOR REQUIRED BY DEQ FOR THE PROJECT.

The following information must be provided

(1) If a closure plan and financial assurance are required by DEQ, copies of these documents should be included with the application per Attachment G.

(2) If DEQ does **not** require a closure plan for the facility, attach a closure document describing closure protocol and associated costs. Closure means those activities associated with restoring the site to its condition prior to engaging in the licensable activity. Closure may include, but is not limited to removal of all on-site solid waste stockpiles accumulated after being issued a Metro Solid Waste Facility License. The Closure protocol is the written protocol that specifies the activities required to properly close the facility and cease further solid waste activities.

(3) If DEQ does **not** require any financial assurance for the costs of closure of the facility, attach proof of financial assurance for the costs of closure of the facility. Cost of closure means the costs associated with restoring the site to its condition prior to engaging in the licensable activity.

These costs may include but are not limited to:

a) the cost to load and transport accumulated materials and solid waste stockpiles to an authorized disposal site or recycling facility; and

b) the cost to "tip" the waste at an authorized landfill or recycling facility.

Examples of acceptable forms of financial assurance include, but are not limited to the following: surety bond, irrevocable letter of credit, closure insurance, escrow account.

If the DEQ does not issue a permit or require financial assurance, then the COO may waive the requirement for financial assurance if the applicant provides written documentation demonstrating that the cost to implement the closure plan will be less than $10,000.

ATTACHMENT J: PROPERTY USE CONSENT FORM – NOT APPLICABLE, APPLICANT OWNS FACILITY PROPERTY.

If required by Section 6 of Part 1 of this application. Form is available at www.oregonmetro.gov.

APPLICANT CERTIFICATION: This form cannot be processed without a signature

I certify under penalty of law that the information contained in this application is true and correct to the best of my knowledge. I agree to notify Metro within 10 days of any change in the information submitted as a part of this application.

SIGNATURE OF AUTHORIZED AGENT _____

TITLE VICE PRESIDENT

PRINT NAME ADAM WINSTON

DATE 3/19/12 PHONE 503-493-7858

ATTACHMENT A: SITE PLAN

ATTACHMENT B: FACILITY DESIGN PLAN REPORT

WM Agilyx Wastech Facility Design Plan Report

(1) **Dust, airborne debris and litter.**

a) Describe whether or not the proposed design will include an enclosed roofed structure and an impervious surface (e.g. asphalt, concrete) for the tipping floor, processing (sorting) areas, storage areas and reloading areas. Provide facility design plans.

Response: The proposed facility is being designed to be accommodated in an existing building, the former location of the Wastech Material Recovery Facility. The proposed design includes an enclosed roofed structure and impervious surface throughout the structure interior for the tipping floor, processing areas, storage areas and reloading areas. The facility design plan is provided as Attachment A.

b) Describe proposed control measures to prevent fugitive dust, airborne debris and litter. Describe how the facility design will provide for shrouding and dust prevention for the receiving area, processing area, storage area, reload area, and all dry waste processing equipment and all conveyor transfer points where dust is generated.

Response: The facility design and operational practices are geared to control fugitive dust, airborne debris and litter. Waste handling activities for tipping, feedstock processing and manufacturing will be conducted in an enclosed building. The building design will have an approved ventilation handling system to filter/remove any airborne dust to ensure interior building air quality is consistently maintained. Fugitive dust emissions from tipping of incoming partially-processed waste plastic feedstock will be negligible due to the preliminary processing steps taken prior to arrival. Fugitive dust potential from final processing of waste plastic feedstock material at the facility (densification and pelletizing) is also expected to be negligible as these processes are done within enclosed equipment specially designed to retain any dust emissions created during the processing. Pelletized feed stock material will be stored in polyethylene super-sacks until use. There is no fugitive dust, airborne debris or litter from the manufacturing process to create synthetic crude oil. Manufacturing occurs in a negative pressure environment (vacuum). Solid Carbon Material (SCM), a manufacturing by-product, is removed from each PRU (Plastic Reclamation Unit) via a specially-design material handling vacuum system to eliminate any fugitive emissions and retain the product (commodity value). SCM vacuumed from each PRU is transferred directly into specially designed sealed, air-tight bins used to load/transport the material from the facility. Overall, dust generation from activities associated with operations is expected to be minimal. Facility and equipment surfaces will be routinely cleaned at a scheduled frequency to remove any accumulated dust material. Facility grounds will be routinely inspected for any litter and debris and cleaned when observed.

c) Describe any additional facility design measures and procedures for the control of dust, windblown materials, airborne debris, litter and for the handling of the waste in the case of major processing facility breakdown.

Response: No additional facility design measures and procedures are anticipated to be required for the control of dust, windblown materials, airborne debris, litter and for the handling of the waste in the case of a major breakdown. If/when a breakdown occurs, facility operators will be able to have incoming waste plastic feedstock deliveries suspended until such time conditions allow delivery to resume (in this scenario, Waste Management would stockpile all partially- treated waste plastic feedstock material at Tualatin Valley Waste Recovery facility).

(2) **Facility capacity**

a) Provide facility site plans, reports or other specifications to document that the size and configuration of the facility grounds, building and equipment, building design, and major facility equipment, processing systems and storage areas are of sufficient capacity to accommodate seasonal throughput of all materials that will be delivered to and generated by the facility.

Response: As designed, the size and configuration of the facility grounds, building and equipment, building design, and major facility equipment, processing systems and storage areas are of sufficiently capacity and design to accommodate throughput of all materials that will be delivered to and generated by the facility. There will be no seasonal impacts whatsoever on manufacturing operations. WM intends on operating the facility 24 hours per day for 336 days per year. There will be regularly scheduled shutdowns during the year to do maintenance service on equipment. The facility design is specifically designed to operate a 16-PRU vessel manufacturing system. The maximum production for the facility is estimated to result in approximately 28,449,000 pounds of plastic feedstock treated per year, creating approximately 21,868,000 lbs finished product per year (~2,955,000 gallons).

b) Provide the estimated capacity (cubic yards) of the facility storage area(s) for incoming materials waiting to be processed, the estimated capacity (cubic yards) for storage of recovered materials, and the estimated capacity (cubic yards) for storage of processing residual.
Response: Incoming Plastic Product Storage Area= 270 cubic yards (est., with a pile height of 4 feet). SCM Storage Area= 20 cubic yards (drop box).

(3) **Adequate Vehicle Accommodation**

Provide documentation to demonstrate that adequate on-site area at the facility's entrance, scales, loading and unloading points and exit points shall be provided to allow the number and types of vehicles expected to use the facility during peak times to safely queue off the public roads and right-of-way.

Response: See Site Plan (Attachment A)

(4) **Water contaminated by solid waste and solid waste leachate**

Submit a DEQ (or equivalent) approved plan with pollution control measures to protect surface and ground waters, including runoff collection and discharge and equipment cleaning and washdown water.

Response: The Facility Operations Plan (Attachment D of this application) contains information addressing pollution control measures to protect surface and groundwaters, including runoff collection and discharge and equipment cleaning and washdown water. Additionally, WM has submitted a letter requested by Mr. Rueben Snyder, City of Portland Industrial Stormwater Program, documenting we intend to maintain stormwater controls at the site and treatment devices including to vacuum sweep the facility and maintain all onsite stormwater catch basins, per Section 3.10 of our Operations Plan.

ATTACHMENT C – MATERIAL RECOVERY AND CONVERSION PRACTICES

The following information describes how material recovery and conversion will be conducted at the facility.

(1) A detailed description of how the proposed facility will further recycling or materials recovery / conversion within the Metro region.

Response: The WM Wastech Agilyx facility promotes a new, exciting green technology that converts a specifically prepared product sourced from suppliers with hard-to-recycle plastics into crude oil, turning a waste stream into a value stream. Plastics that are difficult to recycle today would be converted into crude oil rather than sent to landfills. Crude oil created from plastics will be refined at a different location and used again to make fuels, inks and printing supplies, and new plastics. Even packing peanuts and old plastic bags can be recycled with this technology into new products. The facility will process 40 tons of plastics per day to produce 3 million gallons of crude oil per year. The landfilled tonnage and airspace attributed from waste plastics generated in the Metro area will be avoided. Hard-to-recycle plastics can now be a beneficial, recyclable commodity never seen before.

(2) A detailed description of the methods you will use for measuring and keeping records of incoming materials.

Response: Methods used for measuring and keeping records of incoming materials will include inventory documentation (e.g.; waste plastic type, weight and condition). Documentation may be written, electronic, or both and be retained in the Facility Operating Records File.

(3) A detailed description of the steps you will take to recover materials and the conversion process. Include the material recovery and conversion methods and equipment to be used on site (e.g., sorting lines, hand picking, magnets, etc.)

Response: All feedstock material that arrives at the Facility will be preprocessed and presorted to be ready for final processing to be used for manufacturing. Feedstock material will sourced from material processed at Waste Management Tualatin Valley Waste Recovery (TVWR). TVWR will recover plastics with equipment that has specialized sort/separation technology. Final processing of the incoming material consists of densification and pelletizing in specially designed equipment. Final processing steps aid recycling efficiency and optimize the manufacturing process.

(4) The general markets for the materials recovered / converted at the facility.

Response: Manufactured crude oil will be marketed to petrochemical refiners. Solid Carbon Material, a manufacturing by-product, will be marketed to end-users in need of a high-BTU energy source to aid with manufacturing/production applications (e.g., steel mills and metal foundries).

(5) A detailed description of the methods you will use for measuring and keeping records of wastes / materials received, recovered / converted from processing, and solid waste disposed - consistent with Metro's reporting requirements.

Response: Methods used for measuring and keeping records of processed feedstock material, produced crude oil volumes and SCM weights will be consistent with Metro's reporting requirements. Documentation may be written, electronic, or both and be retained in the Facility Operating Records File. Documentation may include, but not be limited to: Data collected directly from manufacturing process equipment, automated data collection devices, and calibrated weigh scales used at the Facility or TVWR.

Operations Plan
WM Agilyx Wastech Facility

WASTE MANAGEMENT

701 N Hunt
Portland, OR 97218
503-493-7858

March 2012

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The following documents are referenced in this Operations Plan. Current versions of each document are part of the operation record found on site or incorporated in this plan.

- Stormwater Guidance Management Document
- Emergency Action Plan (EAP)
- Spill Prevention, Control and Countermeasure Plan (SPCCP) [Note: SPCCP is pending development and will be completed prior to start of operation.]

Acronyms and Abbreviations

DEQ	Oregon Department of Environmental Quality
EAP	Emergency Action Plan
Ops Plan	Operations Plan
PM	Preventative Maintenance
PPE	Personal Protective Equipment
SPCCP	Spill Prevention, Control and Countermeasure Plan
WM	Waste Management

1.0	INTRODUCTION
1.1 Purpose of the Operations Plan	The purpose of the WM Agilyx Wastech Manufacturing Facility Operations Plan is to document procedures that describe the manufacturing of crude oil from certain prepared recycled plastics. This document will be supplemented with other permits, documents, reports, and training material, as needed.
1.2 Regulatory Requirements	Chapter 5.01 of the Metro code provides that a license must be required of the person owning or controlling a facility at which processing of non-putrescible waste is performed. The Metro Materials Processing Facility License Application requires the applicant to develop and submit an operating plan including, at a minimum, procedures outlined in the application. This document complies with the stated requirements and will be used to operate the facility in conjunction with other permits, plans, regulatory requirements and established operational practices.
1.3 Overview of Operations	Access to the site is restricted to authorized product suppliers delivering designated prepared material sourced from certain recycled plastics. Product delivery vehicles enter the facility through the main entrance and proceed to the unloading area. The shipment of product is confirmed and unloaded. The delivered plastic product is densified and converted to crude oil. The oil is stored in tanks before being trucked to a refinery. Solid Carbon Material (SCM), a manufacturing by-product will be marketed to end-users in need of a high-BTU energy source as market conditions allow. SCM will be disposed in a landfill if market conditions do not exist. On average, 7% of the plastic feedstock is converted to SCM. The facility will process 40 tons of plastics per day to produce 3 million gallons of crude oil per year. The facility will produce approximately 2.8 tons of SCM per day.
2.0	**FACILITY DESCRIPTION**
2.1 Site Location and Topography	WM – Wastech/Agilyx Manufacturing Facility is located at 701 North Hunt Street, Portland, Oregon, 97218. Industrial and light industrial facilities border three sides of the property. The Columbia Slough is located within 20 - 60 feet of the northern boundary of the facility, and is separated from the active area by a vegetated hillside that is fenced to prevent unauthorized use. Land use within a 1-mile radius of the site is predominantly industrial. Facility property covers approximately 6.2 acres. The facility consists of approximately 95 percent impervious surfaces. The site has two structures; a scalehouse and a manufacturing plant building. The site is relatively flat.

2.2 Facility Layout, Site Access, and Egress	The plant building is approximately 31,000 ft^2 in size. It includes space for receiving, final product processing, and converting plastic product to crude oil. Crude oil product storage tanks and a truck load out area are located on the exterior of the plant building. Various conditioning systems are also located adjacent to this area (e.g.; Cooling towers, chilled water tanks, heat transfer fluid exchange skid, air cooler chiller and emission control device). There is a separate space for office functions, employee break-room, and restrooms adjacent to the production floor. Ingress and egress is controlled through the main gate on Hunt Street. Onsite access roads are all paved with appropriate signage. Access to the facility is controlled by perimeter fencing and gates.
2.3 Storm and Sanitary Disposal	**Stormwater Disposal:** Stormwater collected from the site flows in one of two pathways. The first pathway drains the south and east portions of the site and represents the majority of stormwater run-off at the site. It consists of a series of catch basins that lead to underground stormwater conveyance pipes. The stormwater flow is conveyed through several pretreatment devices as follows: a sedimentation basin consisting of a StormGate Separator, a coalescing plate oil-water separator (Oil-Water Separator #1), and final pretreatment using a StormFilter® filtration device. The second pathway drains the area near catch basin #7, which drains via underground conveyance pipes to a coalescing plate oil-water separator (Oil-Water Separator #2), and is then treated using a StormFilter® filtration device. Discharge from the site exits at a discharge point and flows into the City of Portland-owned storm sewer pipes that discharge into the Columbia Slough. The Facility is not currently required to apply for a NPDES permit coverage because an NEC has been filed. Nevertheless, a site Stormwater Guidance Management Document (see Appendix A) has been developed an in use to minimize the risk of pollutant discharges into stormwater from operational areas of the facility through identification and implementation of best management practices (BMPs), identification of a stormwater pollution prevention team, implementation of routine facility inspections, and recordkeeping. **Sanitary Disposal:** Sanitary wastewater is generated from two sources: 1) Domestic: Restrooms, showers and break-room sinks; and 2) Industrial: Treated wastewater associated with manufacturing and periodic equipment cleaning; and cooling tower discharge. Industrial discharges are authorized under a wastewater discharge permit issued by City of Portland/BES. All site generated wastewater will be disposed into the City of Portland-owned sanitary sewer system.

2.5 Surface Water and Surface Drainage Control	As stated above in Section 2.3, all surface water (stormwater) is collected via a series of catch basins and conveyed via piping/pretreatment separator devices into a municipal storm sewer system. The stormwater discharge that exits the site does not contain run-on from off-site sources.
3.0	**General Facility Operations**
3.1 Hours of Operation	The site will operate 24 hours per day and 7 days per week for 336 days per year. There will be regularly scheduled shutdowns during the year to do maintenance service on equipment. Delivery of product will likely be primarily during normal business hours. The hours may be changed as business and operational conditions require.
3.2 Access Control	The site is fenced and access is controlled by a main gate.
3.3 Reporting Requirements	The facility performs routine reporting functions per requirements contained in the following permits, licenses, registrations and programs: • Metro Non-Putrescible Materials Conversion Processing Facility License No. x [Pending Issuance] • DEQ Air Contaminant Discharge Permit No.26-0170-ST-01 • City of Portland Industrial Wastewater Discharge Permit No. x [Pending Issuance]. • Oregon Office of State Fire Marshall Community Right-to-Know/ Hazardous Substance Information Survey (Annual Reporting).
3.4 Opportunity to Recycle	WM Agilyx Wastech Manufacturing Facility supports the State's recycling goals by providing a market for difficult-to-recycle plastic. Product material separated from the waste stream meeting our specifications will be accepting for recycling.
3.5 Litter Prevention and Control	The manufacturing operations are conducted inside the building, which minimizes the potential for off-site litter. The site and surrounding area is inspected for the presence of litter related to site activities on a routine basis, at least weekly. All Inspections/removal activity will be documented and retained in the facility operating records file.
3.6 Vector Prevention and Control	Non-putrescible material being converted does not typically attract vectors, commonly associated with putrescible material. If vectors become problematic, steps will be taken for control, as necessary (e.g.; hiring a pest control company).

3.7 Dust, Noise, Odor Prevention and Control	The manufacturing operations are conducted inside the building, which minimizes the potential for dust, noise, and odor. Overall, dust generation from activities associated with operations is expected to be minimal. Facility and equipment surfaces will be routinely cleaned at a scheduled frequency to remove any accumulated dust material. The building design will have an approved ventilation handling system to filter/remove any airborne dust to ensure interior building air quality is consistently maintained. Fugitive dust emissions from tipping of incoming partially-processed waste plastic feedstock will be negligible due to the preliminary processing steps taken prior to arrival. Fugitive dust potential from final processing of waste plastic feedstock material at the facility (densification and pelletizing) is also expected to be negligible as these processes are done within enclosed equipment specially designed to retain any dust emissions created during the processing. There is no fugitive dust or noxious odor from the manufacturing process to create synthetic crude oil. Manufacturing occurs in a negative pressure environment (vacuum). Solid Carbon Material (SCM), a manufacturing by-product, is removed from each PRU (Plastic Reclamation Unit) via a specially-design material handling vacuum system to eliminate any fugitive emissions and retain the product (commodity value). SCM vacuumed from each PRU is transferred directly into specially designed sealed, air-tight bins used to load/transport the material from the facility.
3.8 Stormwater Treatment	Prior to off-site discharge, all stormwater will be treated via catch basins and separator devices described in Section 2.3. The stormwater collection/conveyance system devices will be regularly inspected (at least monthly) and serviced as needed to maintain proper function.
3.9 Facility Operation Equipment	Adequate equipment is maintained on-site to efficiently and safely handle all products received at the facility. WM can obtain back-up equipment from equipment rental companies if/when conditions demand to avoid disruption of manufacturing. WM has a preventive maintenance program to minimize equipment "down-time" and costly repairs. This program contributes to efficient and safe equipment operation and assures that adequate equipment is available at all times. Operators inspect the equipment daily and WM and third party mechanics repair and service equipment in accordance with WM's scheduled preventative maintenance policies.
3.10 Complaint Response Procedures and Log	All complaints are noted in the Complaint Log located in the main office. If a complaint is received the Site Manager is notified and will determine the level of appropriate response. The response will be documented in the Complaint Log.

4.0	**Manufacturing Operations**
4.1 Material Streams	Materials and Supplies: Only authorized product suppliers will deliver designated prepared material sourced from certain recycled plastics.
4.2 Product Receiving	Only authorized loads will be accepted at the site. All incoming feedstock material will be documented (e.g.; waste plastic type, weight and condition). Documentation may be written, electronic, or both and be retained in the Facility Operating Records File.
4.3 Product Authorization	All products will be authorized at the ship point prior to arriving at the site.
4.4 Product Rejection Procedures	Unacceptable product will be rejected at the ship point prior to arriving at the site.
4.5 Product Storage	Product is received in time and quantities established to minimize storage and meet throughput volume required by the manufacturing process.
4.6 Measuring Product Flow	A report will be generated monthly showing the amount of product received and the market destination of all commodities shipped from the facility.
4.7 Waste Control - Discouraging Unacceptable Waste	Only authorized loads will be accepted at the site. All authorized loads will be screened and sorted to ensure any unacceptable waste materials are removed. Unacceptable waste contained in unprocessed waste plastic feedstock is removed during initial processing of the feedstock at offsite facilities (WM Tualatin Valley Waste Recovery or other authorized sites).
5.0	**Inspection and Maintenance Schedule** Equipment is inspected each workday and maintained in accordance with WM's preventative maintenance (PM) policies. Maintenance work is regularly scheduled and documented the Facility Operating Records File. PM is done on rolling stock is done at the Facility or at offsite locations by WM technicians or contractors. Rolling stock PM and unscheduled repairs will be done inside the plant, if/when performed on site. No fueling occurs onsite for vehicles that transport feedstock product material and crude oil product. On site material handling equipment will be CNG or propane -powered. A tank storage rack/management system will be installed by the gas vendor.

6.0	Contingency Program
6.1 Safety Program	WM has an in-depth safety program that includes training and inspections. In accordance with WM corporate guidance, operations staff is trained upon hire, and receive regularly scheduled refresher training on various safety topics at least monthly. Safety training is documented on site. The facility managers, as well as the regional safety manager are available to respond to and address safety hazards.
6.2 Emergency Agencies and Phone Numbers	All emergency agencies including fire, police and medical services can be reached by calling **911.** For additional information, see the Emergency Action Plan (see Appendix B).
6.3 Emergency Access	The front gate is open during business hours to all traffic including emergency vehicles. After hours, the gate is accessible with an emergency access keypad.
6.4 Personal Protective Equipment	WM supplies PPE, including but not limited to: high visibility vest, hardhats, steel-toe boots, safety glasses, earplugs, dust masks and gloves. Other PPE is supplied when needed. All visitors to the site are required to wear a high visibility vest and hardhat.
6.5 On Site Emergency Equipment	On site emergency equipment consists of the following: 1) Fire extinguishers attached at various locations inside the plant building. 2) Automated Fire Suppression System 3) Eye Wash Stations 4) First Aid Kit Stations 5) Telephone and/or radio communication to summon 911 responders. Emergency equipment is regularly inspected to ensure readiness and operating function. Inspection are documented and retained in the Facility Operating Records File.
6.6 Spill Prevention and Response Procedures	Spill prevention and response procedures can be found in the Facility Spill Prevention, Control and Countermeasure Plan (SPCCP), as required under 40 CFR 112. The SPCCP will be developed and in effect prior to commencement of operations.
6.7 Prohibited Waste Disposal Procedures	If prohibited materials are discovered, the Site Manager will determine the needed response. Depending on the waste, it may be isolated and hauled off at a later time or a third party may be brought in to clean up the waste.

7.0	Job Description and Training
7.1 Description of Personnel Duties	Employment needs vary during the year. • Equipment operators – operate mobile equipment including wheel loaders, trucks and forklifts as well as stationary equipment including final product processing equipment, overhead crane, conveyors, etc. • Technicians – maintain mobile, stationary and building equipment, site maintenance • Supervisor – direct employee and material flow organization, safety training and inspections, employee training, site and environmental maintenance, organize transportation needs • Site manager – ensures adequate staffing, organizes material flow based on market conditions, ensures safety training and inspections, employee training are carried out in accordance with approved plans and permits. • Environmental Specialist - Employee training, site inspections and investigations, site and environmental maintenance, interaction with regulators. • Laborers - handle material, site maintenance, litter patrol.
7.2 Personnel Training	All employees are trained on basic safety and their job duties upon hiring. Employees also receive scheduled annual refresher health/safety training. WM also provides employees training on various environmental topics (for example, stormwater pollution prevention and spill prevention and response BMPs). WM continually trains on safety, environmental issues and job site requirements. All training is documented and retained onsite.

APPENDIX A – SITE SPECIFIC STORMWATER GUIDANCE DOCUMENT

SITE SPECIFIC STORMWATER MANAGEMENT GUIDANCE DOCUMENT

Waste Management Agilyx Wastech
701 N. Hunt
Portland, Oregon 97218

March 5, 2012

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1.0 INTRODUCTION

1.1 Background

Waste Management of Oregon, Inc. (WMO) has prepared this Site Specific Stormwater Management Guidance Document for the Waste Management Agilyx Wastech Facility in Portland, Washington (WMAW). This guidance document was developed to assist the facility in preventing industrial pollutants from entering stormwater runoff at the facility.

40 Code of Federal Regulations (CFR) §122, 123, and 124 requires NPDES permits for discharges of stormwater from certain industrial and construction activities. The DEQ, as the Environmental Protection Agency's (EPA) delegated authority, is responsible for implementing these regulations and issuing NPDES permits in Oregon State. In certain locations, DEQ has contracted with local agents to perform tasks including review of SWPCPs, inspections, and sampling in the areas under their jurisdiction. However, the WMAW facility is not currently required to apply for a NPDES permit because no materials or activities at the facility will be exposed to precipitation now, or in the foreseeable future. On 2/9/12, WMAW submitted a No Exposure Certification For Exclusion from NPDES Storm Water Permitting to City of Portland, Bureau of Environmental Services (DEQ Local Agent) acknowledging compliance with 40 CFR §122.26(g).

Implementation of this guidance document minimizes the risk of pollutant discharges into stormwater from operational areas of the facility through identification and implementation of best management practices (BMPs), identification of a stormwater pollution prevention team, implementation of routine facility inspections, and recordkeeping.

Additional elements to be implemented as part of this guidance document include the following:

- Encouraging communication among the pollution prevention team members.
- Educating employees about the contents of this guidance document, including spill prevention and response procedures, staff responsibilities, good housekeeping procedures, and material management practices.
- Performing inspection activities and management of materials and equipment at the facility that have the potential to cause stormwater pollution.
- Maintaining inspection records.
- Developing, maintaining and tracking follow-up procedures to ensure adequate corrective actions are taken in response to inspections.
- Periodically reviewing this guidance document and updating it, as necessary.

A copy of the Site Specific Stormwater Management Guidance Document will be kept at the facility or within reasonable access to the facility and immediately available.

2.0 FACILITY INFORMATION

2.1 Facility Description and Operations

WMAW is located at 701 N. Hunt, Portland, Oregon 97218. A drawing of the layout of the site is depicted in Figure 1. The WMAW facility will be constructed in the spring of 2012. Operations will commence in late summer 2012.

2.2 Industrial Activities

WMAW will manufacture synthetic crude oil from certain prepared recyclable plastics. The facility includes a manufacturing plant, administration offices, employee facilities (locker, break and restrooms) and visitor/employee parking area.

WMAW performs the following industrial activities:

- Processes prepared recyclable plastic (feedstock material).
- Converts feedstock into synthetic crude oil and Solid Carbon Material (SCM), a by-product.
- Maintaining and repairing processing equipment.
- Parking of employee vehicles.
- Transferring of crude oil product into tankers trailers which haul product to refineries.
- Cleaning/prepping PRU's (plastic reclamation units) for manufacturing use. Transferring collected SCM into bins to transport off-site.

Site activities that are conducted in uncovered areas exposed to stormwater include product storage and transfer.

2.3 Surface Water Drainage

Stormwater collected from the site flows in one of two pathways as depicted in Appendix E, Figure 1. The first pathway drains the south and east portions of the site and represents the majority of stormwater run-off at the site. It consists of a series of catch basins that lead to underground stormwater conveyance pipes. The stormwater flow is conveyed through several pretreatment devices as follows: a sedimentation basin consisting of a StormGate Separator, a coalescing plate oil-water separator (Oil-Water Separator #1), and final pretreatment using a StormFilter® filtration device.

The second pathway drains the area near catch basin #7, which drains via underground conveyance pipes to a coalescing plate oil-water separator (Oil-Water Separator #2), and is then treated using a StormFilter® filtration device.

2.4 Inventory of Materials

The types of significant materials handled and/or stored at the facility include: diesel fuel, engine and lubricating oils, greases, transmission fluid, cleaners and degreasers, antifreeze, paints, and used oil and used antifreeze. The list is updated if significant new material categories are added which could pose a risk to stormwater quality at the facility. However, these lists will not be updated to reflect changes in brands of similar products, or the addition of small quantities of similar products, as those are already represented on the list.

A variety of petroleum fuels/oils and other vehicle fluids are stored at the facility (see Table 2-1). In addition, smaller containers (<55 gallons) of assorted petroleum oils, vehicle fluids, solvents, paints and cleaners are stored inside the Maintenance Shop.

Table 2-1: Storage Tank Inventory
WM AGILYX WASTECH

Tank/Product Stored	Size of Containers in Areas/Total Capacity	Aboveground or Underground	Preventive Equipment, Containment, or Controls
PLANT AREA			
TBD	TBD	TBD	TBD
TBD	TBD	TBD	TBD
TBD	TBD	TBD	TBD
TBD	TBD	TBD	TBD
TBD	TBD	TBD	TBD
TBD	TBD	TBD	TBD
TBD	TBD	TBD	TBD

2.5 Risk Identification for Potential Pollutants

This section describes the primary risks to stormwater leaving the facility. The primary risks for potentially impacting stormwater quality, and potential pollutants generated by each activity are summarized in Table 2-2.

Table 2-2: Facility Activities and Potential Stormwater Pollutants
WM Spokane

Facility Activity	Potential Pollutant-Generating-Activity	Potential Pollutant
Product storage in bulk storage containers	External corrosion, structural failure, and leaks	Synthetic Crude Oil*
	Spills and overfills due to operator error	Synthetic Crude Oil*
Oil/water separators (stormwater treatment devices)	Overflow of oil/pollutants from an oil/water separator that has not been maintained	Oil, heavy metals, suspended solids
	Structural failure, faulty equipment, leaks	Oil, heavy metals, suspended solids

*[Impact to stormwater is unlikely due to characteristics of the oil product. Synthetic crude oil is very viscous or solid at temperatures below about 100oF, and does not flow easily until it has been heated to about 130oF. The product must be heated to 130oF for transfer from the product storage tank to a tanker truck. Thus except during exceptionally warm daytime temperatures, liquid oil that might leak or spill from the processing or storage equipment would rapidly solidify at normal ambient temperatures at this facility.]

3.0 BEST MANAGEMENT PRACTICES

This Site Specific Stormwater Management Guidance Document summarizes appropriate BMPs consistent with or derived from WDOE's Stormwater Management Manual for Eastern Washington, 2004 Edition (SWMM). These BMPs are implemented at the facility to eliminate or reduce the potential for contaminating on-site industrial stormwater. The BMPs used at the facility are summarized in Table 3-1.

Table 3-1: Best Management Practices
WM AGILYX WASTECH

BMP	Requirements
Oil/Water Separators (Used to treat stormwater)	• Inspect oil/water separator periodically for damage and amount of remaining capacity. • Replace or repair oil/water separator if damaged or faulty. • Periodically pump (as necessary) to limit potential overflow of pollutants • Remove oil and sediment/sludge collected in the oil/water separator and properly dispose of it.
Equipment Maintenance	• Maintain an organized inventory of materials used for maintenance. • Properly dispose or recycle greasy rags, oil filters, air filters, batteries, cleaners and degreasers. • Label and track of waste material (e.g., spent solvents, chemicals and sludge). • Use dry cleanup methods for spills and leaks. • Do not pour liquid waste down floor drains, sinks, or outdoor storm drain inlets. • Inspect the facility area regularly for proper implementation of control measures. • Routinely sweep up dust and debris from maintenance activities and dispose of it properly. • Train employees on proper waste control and disposal procedures.
Container Storage of Liquids or Dangerous Wastes	• Store ignitable and reactive liquids in accordance with the Uniform Fire Code and requirements in existing state and local fire codes. • Containers must be located in designated areas. • The storage area must be paved, free of cracks and gaps, and impervious to contain leaks and spills. • The containment system must be inspected (by facility personnel) on a regular basis for evidence of deterioration. • Train employees on proper waste control and disposal procedures.
Catch Basins	• Use catch basin filters at each catch basin location to help reduce debris and sediment from entering the stormwater system. • Remove accumulated sediment in catch basins, when identified. • Protect catch basins with oil booms, when necessary.

4.0 PERSONNEL TRAINING

4.1 Pollution Prevention Team

The "Pollution Prevention Team" is assigned the duty of implementing this Site Specific Stormwater Management Guidance Document. The involvement and cooperation of all employees involved with handling and management of potential pollutants is essential in implementing, maintaining, and revising this guidance document to accomplish the goals listed in this guidance document. Pollution Prevention Team members and their responsibilities are listed in Table 4-1.

Table 4-1: Stormwater Pollution Prevention Team
WM Spokane

Title	Responsibility
District Manager	Coordination of facility activities, BMP implementation, erosion and sediment control, training, facility inspection, and reporting
Operations Manager	BMP implementation, training, equipment maintenance, storage and disposal of maintenance supplies, spill prevention and response, and program support
Maintenance Manager	BMP implementation, training, equipment maintenance, storage and disposal of maintenance supplies, spill prevention and response, program support, stormwater sampling
Environmental Manager	Program oversight and technical assistance to multiple facilities
Third-Party Consultant	Technical assistance, as needed, based on contracts

4.1.1 Permanent Personnel

Facility personnel, including mechanics, operators, and laborers, should be instructed annually on how to perform their duties and prevent the discharge of harmful quantities of oil or hazardous substances. In addition, facility personnel, including mechanics, operators, and laborers should be instructed annually of their responsibilities for complying with the requirements of the spill laws and emergency response regulations applicable to the facility.

Affected new personnel including mechanics, operators, and laborers should be trained during their initial training period.

Site personnel will be trained on stormwater management BMPs, spill response and reporting procedures annually. All training activities will be documented on the attached Training Documentation Form (Form 2).

4.1.2 Temporary Personnel

Temporary personnel must be advised of applicable spill prevention measures during their introduction to the site and/or employment. Temporary personnel, and drivers of vehicles not regularly employed at the facility, must be advised of the presence of aboveground and below ground pipes, tanks, and other potential spill sources, using signs, labels, and traffic protection devices.

4.1.3 Tank Truck Drivers

Tank truck drivers involved with loading or unloading activities at the facility must adhere to the following guidelines:

- Exercise caution when maneuvering to avoid damage to containment tanks or piping.
- Inspect tank, fitting, and liquid level indicator before filling.
- Place drip pans under all pump hose fittings before loading/unloading.
- Block truck wheels before starting to load/unload.
- Remain with the vehicle while loading/unloading.
- Drain loading/unloading line to storage tank before disconnecting it.
- Verify that drain valves are closed before disconnecting loading/unloading lines.
- Inspect vehicle before departure to be sure loading/unloading lines have been disconnected and vent valves are closed.
- Lock or secure all valves in the closed position.
- Ensure there is adequate lighting to conduct night fueling activities. If illumination provided by light posts in the truck parking area is inadequate, use a flashlight or other mobile lighting to view all fill openings with poor accessibility.
- Immediately report leakage or spillage to the On Site Supervisor or other management personnel.

5.0 INSPECTIONS AND RECORDKEEPING

The Pollution Prevention Team inspects the facility operations, potential pollutant sources, and the effectiveness of BMPs, on a monthly basis. The District Manager and delegate are responsible for ensuring that inspections and recordkeeping activities are met in an effective and consistent manner in accordance with this guidance document.

5.1 Monthly Inspections

Monthly visual inspections consist of observations made at catch basins during a storm event (see Figure 1).

In addition, inspection and maintenance of stormwater drainage and treatment systems are important to prevent and reduce the potential for discharge of significant amounts of pollutants. Investigations of the stormwater drainage and treatment system will be conducted on a monthly basis along with the visual inspection.

Response actions for maintenance and cleaning of stormwater drainage and treatment systems will be conducted consistent with guidance presented in the SWMM. These include the following:

- Inspecting and cleaning catch basins, oil/water separators, and other conveyance and treatment structures as needed, and determining whether additional improvements to operations and maintenance are needed. Specific Trash & Debris and Sediment conditions when maintenance is needed for catch basins are: Trash & Debris-When trash or debris is located immediately in front of the catch basin opening or is blocking inletting capacity of the basin by more than 10%; Sediment- Sediment (in the basin) that exceeds 60% of the sump depth from bottom of basin to lowest invert of the lowest pipe connected to the basin, but in no case less than a minimum of 6 inches clearance from the sediment surface to the invert of the lowest pipe. Specific swale conditions when maintenance is needed include the following: Sediment Accumulation on grass- Sediment depth exceeds 2 inches; Standing Water- When water stands in the swale between storms and does not drain freely; Vegetation- When the grass becomes excessively tall (>10 inches); When nuisance weeds and other vegetation start to take over.

- Promptly repairing any deterioration threatening the structural integrity of the structure, such as replacement of clean-out grates, catch basin covers, or worn pipe segments/joints.

- Regularly removing debris and accumulated sediment from catch basins (i.e., when deposits in catch basins reach 30 percent of the sump depth, and

maintaining a minimum 0.5 foot clearance from the deposit surface to the invert of the lowest pipe.

- Where practical, labeling storm drains to exclude disposal of wastes.

Observations will be documented on the attached Visual Monitoring Inspection Form (Form 3). In addition to the inspector's name, date and location of inspection, and weather conditions, the form provides a checklist to inspect for the presence of floating materials, suspended solids, oil and grease, visible sheen, discolorations, turbidity, odor, etc. in the stormwater discharge.

Visual inspections must also verify that:

- The descriptions of potential pollutant sources listed in the guidance document are accurate.
- The site map reflects current conditions or has been updated or otherwise modified as necessary to document changes.
- Controls to reduce pollutants in stormwater discharges associated with industrial activity identified in this guidance document are being effectively implemented, and are adequate.

The Visual Monitoring Inspection Form includes a column to document actions taken or other actions needed to correct deficiencies or address observations from the inspection, adjustments to this guidance document, and other comments. Records from visual monitoring should be retained with site records.

5.1.1 Dry Season Inspections

A dry season inspection should be performed during the summer quarter (July through September). The purpose is to determine whether a "non-stormwater discharge is present." If the discharge is not comprised entirely of precipitation, then it is prohibited and should be investigated further. Prohibited non-stormwater discharge examples are: domestic wastewater, process wastewater, non-contact cooling water, and leachate.

The dry season inspection should be completed after at least 7 consecutive days of no precipitation, and include observations documented for each dry well, as shown on the attached Dry Season Inspection Form. The source of discharges that consist of anything other than precipitation, along with presence of sheen, discolorations, turbidity, odor, and flow rate, should be documented on the form. .

The Dry Season Inspection Form (Form 4) should also document actions taken or are needed to correct deficiencies or address observations from the inspection.

Form 1: Notice to Tank Truck Drivers

To prevent the release of substances hazardous to the environment, tank truck drivers entering this facility are to comply with the following rules:

- Exercise caution when maneuvering to avoid damage to containment tanks, or piping.
- Inspect tank, fitting, and liquid level indicator prior to filling.
- Place drip pans under all pump hose fittings prior to loading/unloading.
- Block truck wheels before starting to load/unload.
- Remain with the vehicle while loading/unloading.
- Drain loading/unloading line to storage tank before disconnecting.
- Verify that drain valves are closed before disconnecting loading/unloading lines.
- Inspect vehicle before departure to be sure loading/unloading lines have been disconnected and vent valves are closed.
- Lock or secure all valves in the closed position.
- Ensure there is adequate lighting to conduct night fueling activities. If illumination provided by light posts in the truck parking area is inadequate, use a flashlight or other mobile lighting to view all fill openings with poor accessibility.
- Immediately report leakage or spillage to the District Manager or other management personnel.

_____

District Manager
WM Agilyx Wastech

Form 2: Stormwater Management Training Documentation Form

Description of training (training records may be maintained here or in site training files):

1. Review of BMPs used at the facility,
2. Inspection of facility catch basin and dry wells,
3. Spill prevention & control requirements,
4. Use of secondary containment to prevent spills,
5. Importance of inspecting and maintaining all tanks, piping, and containment structures
6. Use and location of spill kits, reminder about replenishing used spill materials,
7. Responding to spills,
8. Managing waste from spill cleanup,
9. Reporting requirements.

Instructor_____ Date_____

EMPLOYEES' NAMES

Printed Name	Signature

FORM 3: VISUAL MONITORING INSPECTION FORM

Date:		**Completed by:**	
Weather Conditions		**Title**	

Area Inspected	**Inspection Procedure**	**Specify Required Maintenance**	**Date Completed**
Vehicles and Equipment (parking and storage)	Check for leaks of oil or fuel. Are leaks from parked vehicles and containers being cleaned up regularly? Does buildup on the lot need to be cleaned?		
Equipment Maintenance Areas	Check for oil and grease residue. Are there any signs of visible contamination?		
Sediment Traps and Catch Basins	Check for accumulation of sediment and oil and grease residue, sheen on water, litter or dirt buildup. Clean when sediment buildup reaches 1/3 capacity or within 6" of lowest pipe elevation (or per manufacturer's instructions). Replace filters if necessary.		
Oil-Water Separators	Check for accumulation of sediment and oil and grease residue. Clean any coalescing plates. Remove sediment when it reaches approximately 1/3 of the sump's capacity or within 6" of the lowest pipe elevation, (or per manufacturer's instructions), and dispose of properly.		
Litter and Garbage	Check that stormwater is not impacted by litter or garbage.		
Spill Kits	Check that spill kits are in their proper locations and completely stocked.		

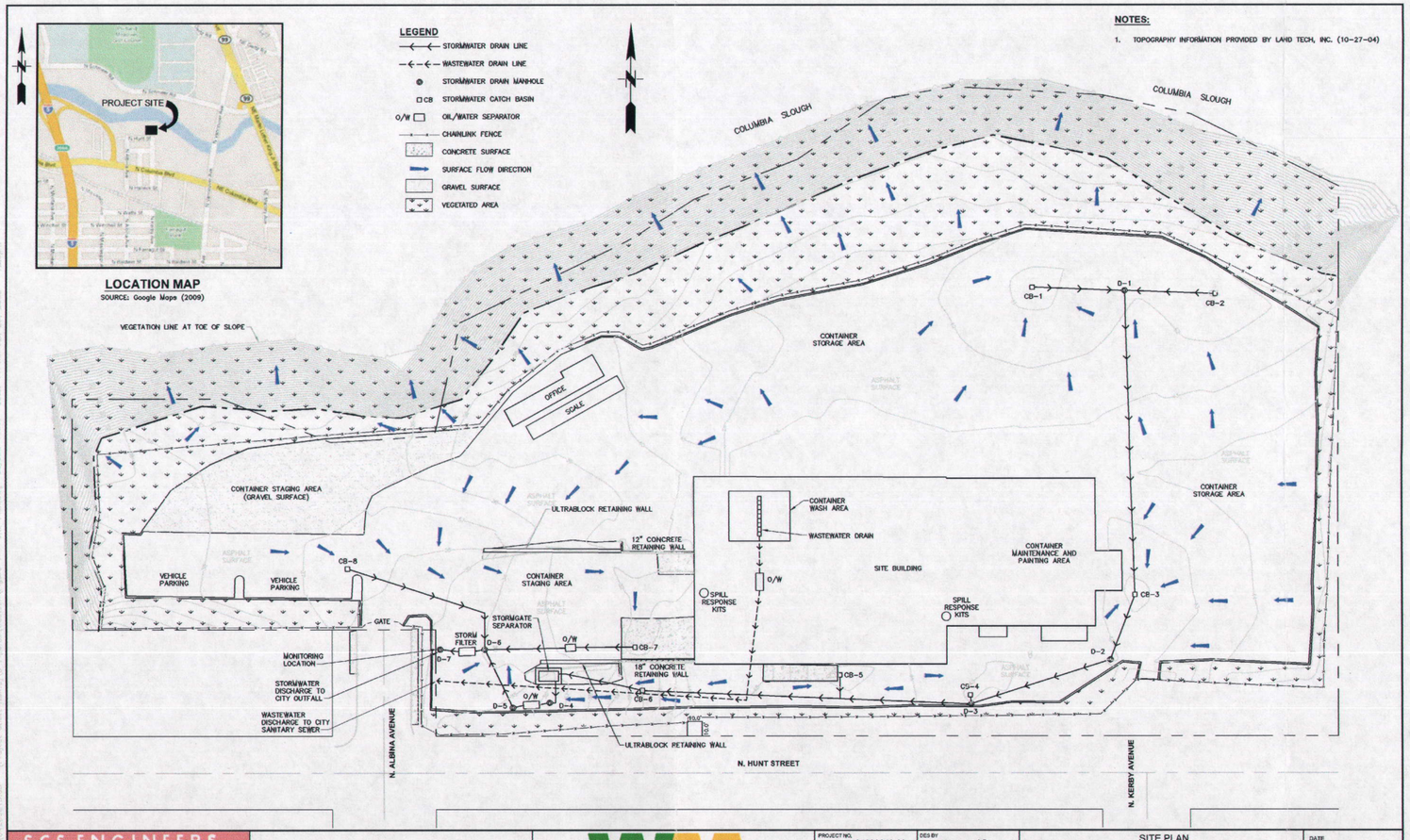
FORM 4: ANNUAL DRY SEASON INSPECTION FORM & NONSTORMWATER DISCHARGE ASSESSMENT

Complete as a record to document annual Dry Season Inspections of all dry well locations. If a non-stormwater (Prohibited) discharge is present, such as domestic wastewater, non-contact cooling water, process wastewater, or leachate, it must be eliminated as soon as possible. Complete this form following 7 consecutive days of no measurable precipitation, at least once during the summer.

Site Name & Location: **WM Agilyx Wastech**

Date/ Inspector	Method(s) Used to Evaluate Discharge (visual, dye, other, etc.)	Is there a discharge during dry weather? (Y/N)	If a discharge is present, what is the source?	Is the source of dry weather discharge allowed by the permit?[1] (Y/N)	Characteristics (Odor, Discoloration, Estimated Flow Rate)	Actions Taken, Other Actions Needed, Adjustments to this Guidance Document, and Other Comments

If an illicit discharge is discovered, District Manager must be notified immediately, and the discharge eliminated as soon as possible.



SCS ENGINEERS
Environmental Consultants and Contractors
2405 140th Avenue NE, Suite 107
Bellevue, Washington 98005
(425) 746-4600 FAX: (425) 746-6747

WASTE MANAGEMENT

PROJECT NO. 04209013.00	DES BY J.D.	SITE PLAN STORMWATER POLLUTION CONTROL PLAN WASTE MANAGEMENT OF OREGON, INC WASTECH FACILITY PORTLAND, OREGON	DATE JUNE 2009
SCALE NOT TO SCALE	CHK BY J.D.		FIGURE 1
CAD FILE FIGURE 1	APP BY J.D.		

APPENDIX B – EMERGENCY ACTION PLAN

Program: Emergency Contingency Plan Program

Facility: Waste Management Agilyx Wastech

Facility Location: 701 N. Hunt, Portland, OR 97218

Date: 3/5/12

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EMERGENCY ACTION PLAN AND CONTINGENCY PLAN

Introduction

This plan contains procedures for **WM Agilyx Wastech** personnel to follow in the event of an emergency on-site. In addition, a Fire Prevention Plan is included in Appendix A. *Personnel will be trained by their site management and if there are questions regarding the procedures in these plans, they should contact their site management.*

Emergency Telephone Numbers

EMERGENCY RESPONSE AGENCIES

Ambulance	9+911
Fire Department	9+911
Police Department	9+911
Highway Patrol	9+911

MEDICAL CLINIC: Concentra Medical Clinic
12518 NE Airport Way
Portland, OR 97218
Phone: (503) 256-2992

HOSPITAL: Legacy Good Samaritan Hospital
1015 NW 22nd Avenue
Portland, OR 97210
Phone: (503) 413-8090

WMI KEY PERSONNEL:

Primary Emergency Coordinator – Matt Stern
Office: (503) 894-1160
Mobile: (503) 849-1160
Home: NA

Alternate Emergency Coordinator – Tom Clebola
Office: (503) 528-7714
Mobile: (503) 209-9458
Home: NA

Regional Safety Manager - Alan York
Office: (360) 415-2751
Mobile: (360) 340-2132

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Safety Specialist – _____
Office: _____
Mobile: _____

Safety Specialist – _____
Office: _____
Mobile: _____

OTHER AGENCIES, UTILITIES AND RESPONSE SUPPORT PROVIDERS:

Office of Emergency Services	(503) 823-3700
U.S. Coast Guard National Response Center	800-424-8802
Air Quality: DEQ	(503) 667-8414
Telephone: QWEST	800-954-1211
Gas: Northwest Natural Gas	800-882-3377
Electric: Portland General Electric	(503) 228-6322
Environmental: DEQ	(503) 667-8414
Spills: Portland Spill Response	(503) 823-7180
Spill Cleanup: Belfor Environmental	(503) 408-7404
Environmental Cleanup: Belfor Environmental	(503) 408-7404
: _____	

Emergency Procedures

Evacuation Procedure

Notify site personnel of the evacuation via oral instructions.

Personnel and visitors should be directed to take the safest route out of the site and reassemble at the "rally point" designated for this site:

Rally Point: West end of the front gate at the facility entrance. (see map)

If outside emergency support is required, call the emergency number **9-911** and report the emergency. (Note that many facilities must dial a "9" prior to 911 to obtain an outside line.) Inform the operator that there is an emergency and:

- Caller's name and location.
- Type of emergency.
- Emergency aid required.

Stay on the line and answer all questions until told to hang up.

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Advise a supervisor or the Emergency Coordinator of the situation and notifications made.

The Emergency Coordinator or supervisor in charge will be responsible for:

- Coordinating evacuation of the site including notification of adjacent property owners/tenants as required.
- Coordinating with incoming emergency response personnel.
- Conducting a head count at the designated assembly area or "rally point".
- Notifying drivers via radio to avoid the site.
- Notifying the Operations/District Manager of the emergency.
- Notifying WMI Safety personnel of the emergency if appropriate and determine if a 24 Hour Report is required.
- Determining when the "all clear" signal can be given to return to the site.

Fire Procedure

Activate the site's notification system or orally warn personnel on-site and call the emergency number **9-911** to report the fire. Inform the operator that there is a fire emergency and:

- Caller's name and location.
- Location of fire.
- If known, materials involved.
- Whether medical aid is required.

Stay on the line and answer all questions until told to hang up.

If the fire is small (less than 1 cubic yard), can be approached safely with an escape route, and available personnel are trained in the use of the appropriate fire extinguisher, an attempt can be made to put the fire out.

If unable to extinguish the fire, evacuate the site and proceed to the designated re-assembly area or "rally point".

Advise a supervisor or the Emergency Coordinator of the situation and notifications made.

The Emergency Coordinator or supervisor in charge will be responsible for:

- Coordinating evacuation of the site if required.
- Coordinating with incoming emergency response personnel.
- Conducting a head count at the designated assembly point.
- Notifying drivers to avoid the yard.
- Notifying the Operations/District Manager of the emergency.
- Notifying WMI Safety personnel of the emergency if appropriate and determine if a 24 Hour Report is required.

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Medical Emergency Procedure

Get a helper. If you are qualified, begin first aid (e.g. stop bleeding, begin CPR, etc.). Do not move victim unless necessary to prevent further injury.

Call emergency number **9-911**. Inform the operator that there is a medical emergency and:

- Caller's name and location.
- Location of victim.
- Nature and extent of injury/illness.

Stay on the line and answer all questions until you are told to hang up.

Advise a supervisor or the Emergency Coordinator of the situation and notifications made.

Continue necessary first aid and keep victim warm and quiet until help arrives.

The Emergency Coordinator or supervisor in charge will be responsible for:

- Coordinating with incoming emergency response personnel.
- Notifying the Operations/District Manager of the emergency.
- Notifying WMI Safety personnel of the emergency if appropriate and determine if a 24 Hour Report is required.
- Notifying Cal-OSHA or other regulatory agency if required.

Spill/Release/Emission Response Procedure

Alert personnel in the immediate area. If required, secure facility and evacuate to upwind site or designated reassembly area.

Isolate affected area from incoming traffic and personnel.

If safe and trained in use of required protective equipment, contain spill or block off drains downstream.

If unable to contain or clean-up spill safety, call emergency number **9-911**. Inform operator that there is a spill emergency and:

- Caller's name and location.
- Location of spill.
- If known, materials and volumes involved.
- Whether medical aid is required.
- Whether fire hazard exists.

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Stay on the line and answer all questions until you are told to hang up.

Advise a supervisor or the Emergency Coordinator of the situation and notifications made.

The Emergency Coordinator or supervisor in charge will be responsible for:

- Coordinating with incoming emergency response personnel.
- Notifying the Operations/District Manager of the emergency.
- Notifying WMI Safety personnel of the emergency if appropriate and determine if a 24 Hour Report is required.
- Notifying WMI Environmental Compliance personnel of the emergency if appropriate.
- Determining if regulatory agency reporting is required and making oral and written reports as required.

Earthquake

During the quake:

- Remain calm.
- If indoors, stay there. Hazards and injuries are generally caused by objects that fall due to the shaking. Move quickly away from windows, shelves, cabinets and glass partitions. Get under a desk or table, or sit in an interior doorway or corner. Do not leave the building unless the building is unsafe.
- If outdoors, get into an open area away from structures, power lines and trees.
- If driving, pull over to the side of the road and stop. Avoid overpasses and power lines. Stay inside vehicle until shaking has stopped. Call dispatch for further instructions.
- If in a crowded public place, do not rush for the doors. Crouch and cover head with hands and arms.

After the quake:

- Unless there is an immediate life-threatening emergency, do not attempt to use the telephone.
- Check for gas and water leaks, broken electrical wiring or sewage lines. If there is damage, turn the utility off at the source. Immediately report gas leaks to the utility company. Do not re-open gas valve until the utility company has checked the system. Check for downed power lines and warn others to stay away.
- Check buildings for cracks and damage including the roof and foundation.
- Turn on portable radio for instructions and news reports. Cooperate fully with public safety officials and instructions.
- Do not use vehicles unless there is an emergency. Keep the streets clear for emergency vehicles.
- Be prepared for after shocks.

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- Remain calm and lend a hand to others.
- If the site is evacuated, leave a message telling others where personnel can be found.

Bomb Threat (Instructions for CSR's)

Listen while the caller talks and fill out the bomb threat call checklist.

Attempt to determine the location and description of the bomb and time of detonation. Obtain as much information as possible including time of call, background noise, etc.

Notify one of the following personnel:

- Operations Manager
- District Manager

Report bomb threat to local police department.

Search the area if time permits. Do not touch any suspicious items. Report any suspicious items to the Operations Manager and the local police department.

Evacuate the area where any suspicious items are located.

Bomb Threat Call Checklist:

Date: _____ Time: _____ A.M. / P.M.

Call Received by: _____

Exact words of caller: _____

_____

_____

_____

Questions to Ask:

When will be bomb explode? _____

Where is the bomb located? _____

What does the bomb look like? _____

What kind of bomb is it? _____

Why did you place the bomb? _____

What do you hope to accomplish by this action? _____

What is your name? _____

Where are you calling from? _____

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Voice Characteristics:

Male ____ Female ____ Child ____ Loud ____ Soft ____ Nasal ____

Raspy ____ High ____ Low ____ Familiar ____ Pleasant ____

Other _____

Speech Characteristics:

Fast ____ Slow ____ Stutter ____ Slurred ____ Intoxicated ____

Other _____

Accent Characteristics:

Local ____ Region ____ Foreign ____

Other _____

Manner of Caller:

Calm ____ Angry ____ Deliberate ____ Emotional ____

Laughing ____ Incoherent ____ Other _____

Background Noises:

Office Machines ____ Street Traffic ____ Factory Machines ____ Music ____

Airplanes ____ Trains ____ Trucks ____ Animals ____

Other _____

Origin of Call:

Internal ____ External ____ Local ____ Long Distance ____

Did caller appear to be familiar with the facility? _____

Number/extension at which call was received: _____

Contacts Made:

Operations/District Manager: Date _____ @ _____ am / pm

Police Department: Date _____ @ _____ am / pm

Fire Department: Date _____ @ _____ am / pm

Other: Date _____ @ _____ am / pm

Other: Date _____ @ _____ am / pm

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Civil Disturbance/Demonstration

Do not become a spectator. Leave the area of the disturbance to avoid injury or arrest.

Lock all doors, gates and windows. Close all drapes and avoid window areas. Do not argue with or agitate the participants.

Remain calm, be courteous and do not do anything to provoke an incident.

Contact the District/Operations Manager and local police department as soon as possible.

If required to protect employees and company property, service may have to be limited and/or access to the building may have to be restricted.

Keep telephone lines open and avoid unnecessary inquiries regarding the incident.

Release of Information to the Public/Media

In the event of an emergency, expect to have to handle media inquiries. The Operations/District Manager or designated spokesperson will coordinate all media relations. In the event the Operations/District Manager is not available and a spokesperson has not been designated, unauthorized personnel should **not** make any statement to the media. Contact the Waste Management Region office, advise WM Region management of situation and coordinate response to media requests.

Armed Robbery

If confronted by an armed robber, do not argue with the individual.

Give the individual what he wants. Do not block his option to escape.

Remember what you can about the incident including individual's height, weight, length of hair, color of eyes, color of hair, race, distinguishing marks or scars. If a weapon or vehicle is visible, try to remember as much detail about it as possible.

After the incident is over, call the police immediately.

Under no circumstances should any one try to intercede or stop the individuals involved in the incident.

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Anti-Terrorism

In The Office:

- Close business.
- If there are customers or visitors in the building, provide for their safety by asking them to stay – not leave. When authorities provide directions to shelter-in-place*, they want everyone to take those steps immediately, where they are, and not drive or walk outdoors.
- Unless there is an imminent threat, ask employees, customers and visitors to call their emergency contact to let them know were they are and that they are safe.
- Turn on call-forwarding or alternative telephone answering systems. Change the recording on voice mail to indicate that the business is closed, and that staff and visitors are remaining in the building until authorities advise it is safe to leave.
- Close and lock all windows, exterior doors, and any other openings to the outside.
- If you are told there is danger of explosion, close window shades, blinds, or curtains.
- Have employees familiar with your building's mechanical systems to turn off all fans, heating and air conditioning systems. Some systems automatically provide for exchange of inside air with outside air – these systems in particular need to be turned off, sealed or disabled.
- Gather essential disaster supplies, such as nonperishable food, bottled water, battery-powered radios, first aid supplies, flashlights, batteries, duct tape, plastic sheeting, and plastic garbage bags.
- Select interior room(s) above the ground floor, with the fewest windows or vents. The room(s) should have adequate space for everyone to be able to sit in. Avoid overcrowding by selecting several rooms if necessary. Large storage closets, utility rooms, pantries, copy and conference rooms without exterior windows will work well. Avoid selecting a room with mechanical equipment like ventilation blowers or pipes, because this equipment may not be able to be sealed from the outdoors.
- It is ideal to have a hard-wired telephone in the room(s) you select. Call emergency contacts and have the phone available if you need to report a life-threatening condition. Cellular telephone equipment may be overwhelmed or damaged during an emergency.
- Use duct tape and plastic sheeting (heavier than food wrap) to seal all cracks around the door(s) and any vents into the room.
- Bring everyone into the room(s). Shut and lock the door(s).
- Write down the names of everyone in the room, and call your business' designated emergency contact to report who is in the room with you, and their affiliation with your business (employee, visitor, customer).
- Keep listening to the radio or television until you are told all is safe or you are told to evacuate. Local officials may call for evacuation in specific areas at greatest risk in your community.

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In A Vehicle - If you are driving a vehicle and hear advice to "shelter-in-place" on the radio, take these steps:

- If you are very close to home, your office, or a public building, go there immediately and go inside. Follow the shelter-in-place recommendations for the place you pick described above.
- If you are unable to get to a home or building quickly and safely, then pull over to the side of the road. Stop your vehicle in the safest place possible. If it is sunny outside, it is preferable to stop under a bridge or in a shady spot, to avoid being overheated.
- Turn off the engine. Close windows and vents.
- If possible, seal the heating/air conditioning vents with duct tape.
- Listen to the radio regularly for updated advice and instructions.
- Stay where you are until you are told it is safe to get back on the road. Be aware that some roads may be closed or traffic detoured. Follow the directions of law enforcement officials.

Local officials on the scene are the best source of information for your particular situation. Following their instructions during and after emergencies regarding sheltering, food, water, and clean up methods is your safest choice.

Remember that instructions to shelter-in-place are usually provided for durations of ***a few hours***, not days or weeks. There is little danger that the room in which you are taking shelter will run out of oxygen and you will suffocate.

What shelter-in-place means:
One of the instructions you may be given in an emergency where hazardous materials may have been released into the atmosphere is to shelter-in-place. This is a precaution aimed to keep you safe while remaining indoors. (This is not the same thing as going to a shelter in case of a storm.) Shelter-in-place means selecting a small, interior room, with no or few windows, and take refuge there. It does not mean sealing off your entire home or office building.

Site Map

A site map of **WM Agilyx Wastech** that details the evacuation routes and re-assembly area or "rally-point" from all points on-site is available to you from your site management. Location of emergency equipment and location(s) of emergency shut off(s) is also shown on map.

ADMINISTRATIVE PROCEDURES

Emergency Reporting

Reporting will be in compliance with federal, state, local and company requirements.

WMI reporting includes:

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- Reporting of emergency incidents to the Operations/District Manager as soon as possible.

- Reporting of emergency incidents to Region management.

- Reporting of significant events (including bomb threats) to the WMI Safety/Environmental Compliance representatives.

Hazardous waste regulatory reporting requirements may include:

- If the emergency coordinator determines that the facility has had a release, fire, or explosion involving hazardous waste that could threaten human health, or the environment outside the facility, the emergency coordinator shall report the findings as follows:
- If evacuation may be advisable, the emergency coordinator shall immediately notify the appropriate local authorities and help these local officials decide whether local areas should be evacuated.
- The emergency coordinator shall in every situation, immediately notify the State Office of Emergency Services. This report shall include: name and telephone number of reporter; name and address of facility; time and type of incident; name and quantity of material(s) involved to the extent known; the extent of injuries, if any; and the possible hazards to human health, or the environment, outside the facility.

Training

Training will be in compliance with all federal, state, local and company requirements.

WM Agilyx Wastech training requirements include:

- A minimum of annual training of all employees in their responsibilities during an emergency.
- As required, testing of the plan by key staff.
- Semi-annual drills with all employees (see documentation form).
- Location of all emergency shut down and main electrical power switches.
- Fire hazards of the materials and hazards to which employees are exposed.
- Location and operation of fire extinguishers.
- Proper and safe handling of gasoline and other petroleum products including cleanup of minor spills.
- Location of Emergency Action Plan, Contingency Plan, and Fire Prevention Plan.
- Location of evacuation routes and re-assembly points for the site.
- All training and drills will be documented and kept on file.

Plan Update and Distribution

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The Emergency Management Plan, Contingency Plan, and Fire Prevention Plan will be updated as required.

The Emergency Management Plan, Contingency Plan, and Fire Prevention Plan will also be updated in the event:

- The plan fails in an emergency.
- The list of emergency equipment changes.
- Applicable regulations are revised.
- The emergency coordinator changes.

The Emergency Management Plan, Contingency Plan, and Fire Prevention Plan will be distributed to the following personnel/locations:

- District Manager
- Operations Manager
- Site Supervisors
- Dispatch

Emergency Equipment Maintenance and Inspection.

Emergency equipment will be inspected on a monthly basis and deficiencies in supply or operation will be noted and corrected.

Emergency equipment on-site consists of:

- Safety Shower
- Eye Wash Station

Personal protective equipment including:

- Hard hats
- High Visibility Vest
- Ear plugs
- Work boots
- Gloves

- Fire extinguishers
- Shovels
- Absorbent material

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Documentation of Semi-Annual Drill

Date Performed _____

Facility Name _____

Certified By _____ Title _____

Comments _____

_____

_____

_____

_____

_____

_____

_____

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APPENDIX A

FIRE PREVENTION PLAN

General

This Fire Prevention Plan for **WM Agilyx Wastech** defines the following:
(For California, this keeps your facility in compliance with Title 8, Section 3220 of the California Code of Regulations)

- Potential fire hazards
- Proper handling and storage procedures for combustible materials
- Potential ignition sources and their control procedures
- Type of fire protection equipment or systems available to control fire hazards

The names and job titles of personnel responsible for maintenance of equipment and systems installed to prevent or control ignition of fires and control of accumulation of flammable or combustible waste materials are:

Maintenance Manager: **TBD**

Operations Manager: **TBD**

Housekeeping Procedures

Housekeeping procedures that will be followed on-site include the following:

- Avoid accumulating combustible materials
- Keep flammable and combustible materials away from ignition sources
- Keep all stairways, fire fighting equipment locations, and exit paths clear
- Clean up spills/leaks promptly and store contaminated material safety
- Report spill/leaks promptly to supervision to assure corrective action is taken
- Remove all waste at the end of each shift and place in appropriate waste receptacle
- Store all oily rags in an approved receptacle for oily rags
- Store flammables in an approved flammable cabinet a minimum of 25 feet from sources of ignition
- Store work clothes in metal lockers
- Use correct cleaning agents and avoid use of flammable/combustible materials for cleaning

Potential Fire Hazards, Potential Ignition Sources, Proper Handling/Storage Procedures, and Fire Protection Equipment

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Tables 1 and 2 list the potential fire hazards, potential ignition sources, proper handling/storage procedures, and fire protection equipment that can control these hazards.

Training

Training will be per the "Training" subsection of the Emergency Management and Contingency Plan.

This Program is hereby approved:

SIGNATURE	DATE

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TABLE 1

SITE LOCATIONS WITH POTENTIAL FIRE HAZARDS AND POTENTIAL IGNITION SOURCES

LOCATION	*POTENTIAL FIRE HAZARDS*	*POTENTIAL IGNITION SOURCES*
Administrative Offices	Combustible materials (e.g. paper, cardboard, etc.) Electrical cords/outlets/wiring Flammable/combustible liquids (e.g. aerosol cans, solvents, etc.)	Open flames (e.g. smoking materials, etc.) Hot surfaces (e.g. appliances, electrical wiring, etc.)
Maintenance Shop	Flammable/combustible liquids (e.g. diesel, solvents, product oils, etc.) Combustible materials (e.g. paper, cardboard, etc.) Electrical cords/outlets/wiring Flammable/oxidizing gases (e.g. acetylene, oxygen, etc.) Open flames (e.g. welding, cutting, etc.) Contaminated materials (e.g. oily rags, etc.)	Open flames (e.g. welding, smoking materials, etc.) Sparks from friction (e.g. grinding) Hot surfaces (e.g. power tools, electrical wiring, etc.) Static electricity Internal combustion engines (e.g. vehicles, forklifts, etc.)
Container Shop	Flammable/combustible liquids (e.g. paints, solvents, etc.) Combustible materials (e.g. paper, cardboard, etc.) Electrical cords/outlets/wiring Flammable/oxidizing gases (e.g. acetylene, oxygen, etc.) Open flames (e.g. welding, cutting, etc.) Contaminated materials (e.g. oily rags, etc.)	Open flames (e.g. welding, smoking materials, etc.) Sparks from friction (e.g. grinding) Hot surfaces (e.g. power tools, electrical wiring, etc.) Static electricity Internal combustion engines (e.g. vehicles, forklifts, etc.)

TABLE 2

CONTROL PROCEDURES AND FIRE PROTECDTION EQUIPMNT FOR POTENTIAL FIRE HAZARDS AND POTENTIAL IGNITION SOURCES

POTENTIAL FIRE HAZARDS/IGNITION SOURCES	*CONTROL PROCEDURE/FIRE PROTECTION EQUIPMENT*
Combustible materials	Avoid accumulation of combustible materials (e.g. empty boxes, cartons, loose paper, etc.) Keep combustible materials away from ignition sources including establishment/enforcement of no smoking/no open flame areas Keep all stairways, firefighting equipment locations and exit paths clear Remove all waste (e.g. dust, lint, loose paper, etc.) at the end of each shift in each work area (including floors, ceilings, walls, ledges, beams, and equipment) and place in appropriate waste receptacle Store work clothes in metal lockers Maintain fire extinguishing equipment capable of handling Class A fires within 75 feet of combustible materials Perform annual maintenance and monthly inspections on fire extinguishing equipment Train personnel in use of fire extinguishing equipment
Electrical cords/outlets/wiring	Inspect power cords for damaged insulation and damaged plugs Discontinue use of a power cord that gets warm Maintain electrical motors in good operating condition

	Do not overload motors, cords or other electrical equipment Maintain fire-extinguishing equipment capable of handling Class C fires near electrical equipment Perform annual maintenance and monthly inspections on fire extinguishing equipment Train personnel in use of fire extinguishing equipment
Flammable/combustible liquids	Keep materials in covered containers when not in use Do not transport materials in open containers Store flammable liquids in containers with appropriate warning labels Do not store near sources of heat/ignition Inert and verify inert atmosphere of containers, piping, tanks that have contained flammable/combustible liquids prior to exposure to heat/flame Maintain fire-extinguishing equipment capable of handling Class B fires within 50 feet of flammable/combustible liquids Perform annual maintenance and monthly inspections on fire extinguishing equipment Train personnel in use of fire extinguishing equipment
Welding/cutting operations	Establish approved areas for cutting and welding Establish approved procedures for a hot work program to restrict cutting/welding in all other areas along with a designated individual for approving such cutting/welding Utilize only approved equipment for cutting/welding Train all personnel that perform cutting/welding Verify training of contractors who perform cutting/welding Provide contractor orientation of potential fire hazards on-site Do not perform cutting/welding within 35 feet of combustible materials Implement hot work permit program Maintain fire extinguishing equipment capable of handling Class A, B, and C fires near the welding operation Perform annual maintenance and monthly inspections on fire extinguishing equipment Train personnel in use of fire extinguishing equipment
Flammable/oxidizing gas cylinders	Do not store cylinders near sources of heat/flame Cylinders stored inside buildings will be in a well-protected, well-ventilated, dry location at least 20 feet from highly combustible materials Cylinders storage will be located where cylinders will not be damaged by passing/falling objects Do not sore cylinders where they could be subject to tampering by unauthorized personnel Do not store cylinders near elevators, stairs or passageways Do not store cylinders in unventilated enclosures Do not store oxygen cylinders near highly combustible materials such as oil/grease Maintain fire extinguishing equipment capable of handling Class A, B, and C fires within 75 feet of welding areas
Open flames	Keep sources of ignition including open flames away from combustible materials Establish and enforce no smoking/no open flame areas Establish and enforce a hot work program Maintain fire extinguishing equipment capable of handling Class A, B, C fire near areas with open flames
Contaminated materials	Keep sources of ignition away from contaminated materials Store contaminated materials in appropriate waste receptacle (e.g. oil rag container) Maintain fire extinguishing equipment capable of handling Class A, B, and C fires where contaminated materials are stored

Hot surfaces	Keep sources of ignition including hot surfaces away from combustible materials Maintain fire extinguishing equipment capable of handling Class A, B, and C fires near areas with hot surfaces
Sparks from friction	Keep sources of ignition including sparks from friction away from combustible materials Maintain fire extinguishing equipment capable of handling Class A, B, and C fires near areas where sparks from friction may occur
Static electricity	Utilize proper grounding/bonding procedures when moving volatile liquids Verify continuity of grounds on a regular basis Maintain fire extinguishing equipment capable of handling Class A, B, and C fires within 50 feet of flammable/combustible liquid storage
Internal combustion engines	Maintain internal combustion engines in good repair Clean up spills/leaks from internal combustion engines promptly and store contaminated material safely Report spills/leaks from internal combustion engines promptly to supervision to assure corrective action is taken Maintain fire extinguishing equipment capable of handling Class A, B, and C fires on all vehicles

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Acknowledgement Form

I, (print name) _____ have received training on Emergency Action Plan Program.

I had the opportunity to have questions answered pertaining to the training material and instructions that was presented to me by the Company.

I understand the training I have received and agree to abide by the standards presented.

_____
(Instructor's) Signature

_____
(Instructor's) Print Name

_____
Date

_____
(Employee's) Signature

_____
Date

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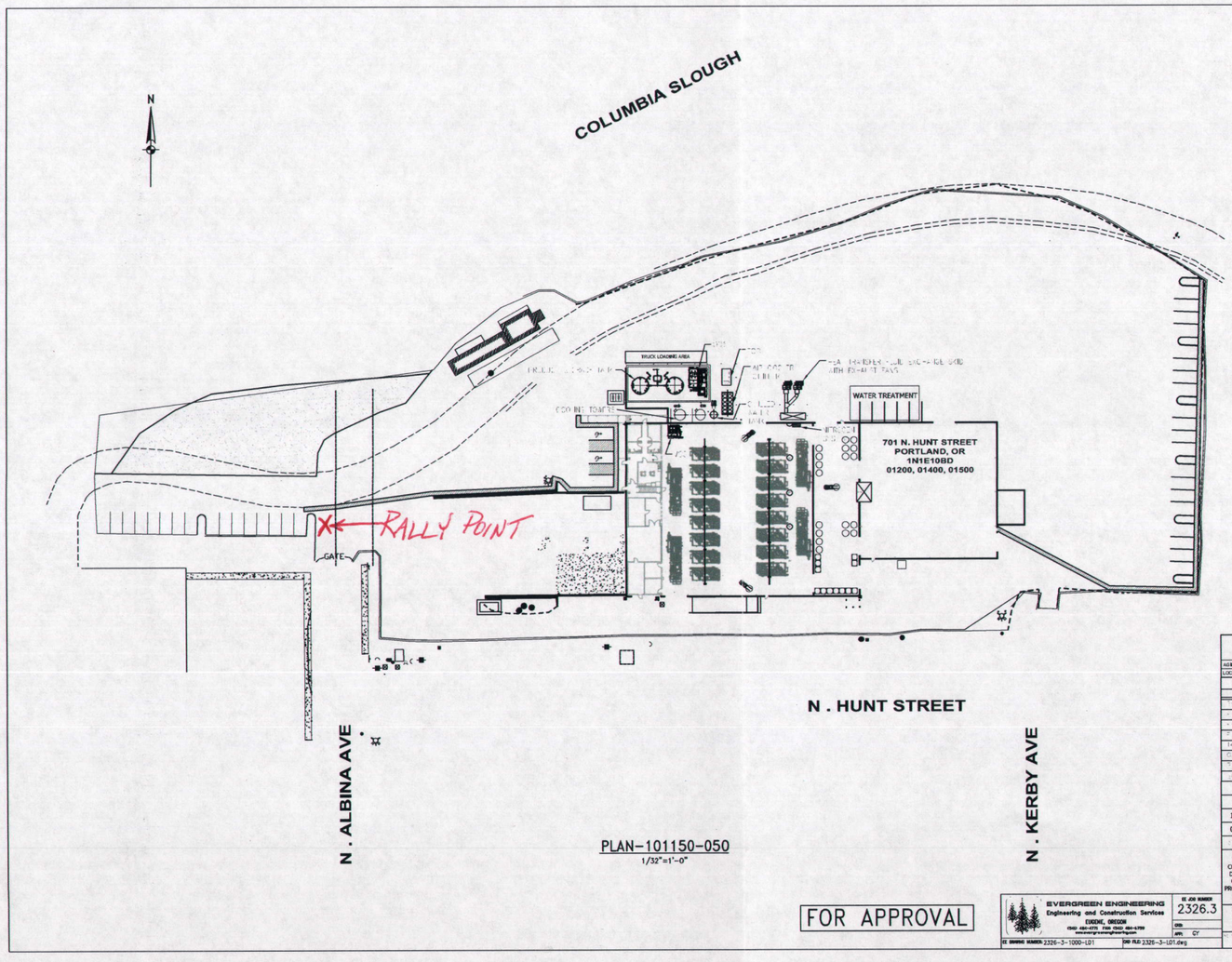

PLAN-101150-050
1/32"=1'-0"

FOR APPROVAL

LEGEND

- APPROX. BOUNDARY LINE
- CENTERLINE
- SANITARY SEWER
- STORM DRAIN
- WATER LINE
- GAS LINE (TIED LOCATE PAINT MARKS)
- BURIED POWER LINE (TIED LOCATE PAINT MARKS)
- OVERHEAD POWER LINE
- SANITARY MANHOLE
- CLEANOUT
- STORM MANHOLE
- CATCH BASIN
- FIRE HYDRANT
- WATER METER
- WATER VALVE
- GAS METER
- UTILITY MANHOLE
- MONITORING WELL
- BOLLARD
- UTILITY POLE
- GUY WIRE
- FDC
- VAULT
- ORDINARY WASTE
- STORM FILTER
- FENCE
- CONCRETE BARRIER
- RETAINING WALL
- PAVEMENT
- CONCRETE
- SIDEWALK
- STRUCTURE

BENCHMARK

ELEVATIONS BASED ON CITY OF PORTLAND BENCHMARK NUMBER 3033; SET IN IN THE NORTH CURB OF COLUMBIA BOULEVARD, 65' WEST OF KIRBY AVENUE; ELEVATION = 45.6'

SURVEY INFORMATION PROVIDED ON THIS DRAWING WAS COMPLETED BY PACIFIC COMMUNITY DESIGN ON 3/18/2011, PROJECT #105-004, DRAWING #1

CONTACT THE UTILITY LOCATE CENTER (800)332-2344 PRIOR TO ANY AND ALL DIGGING.

agilyx

AGILYX PROJECT NUMBER: | CUSTOMER:
LOCATION: | CUSTOMER PROJECT ID:

Drawn by:			
Engineering Approval:			
Engineering Manager:			
Engineering Director:			
Technology:			
Operations:			
Environmental:			
Safety:			

1	MODIFIED PER CONFERENCE CALL	WRS	12/20/11
0	ISSUE FOR APPROVAL	WRS	12/13/11

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Engineering and Construction Services
EUGENE, OREGON
(541) 484-4775 FAX (541) 484-4789
www.evergreenengineering.com

EE JOB NUMBER 2326.3
DRN
APV CT

EE DRAWING NUMBER 2326-3-1000-L01 | CAD FILE 2326-3-L01.dwg

REV: D	DATE: 12/13/11	SCALING #:	1
SCALE: 1/32"=1'-0"	DRAWN: WRS	SHEET: 1 of 1	

SITE LAYOUT

ATTACHMENT E: INSURANCE

Waste Management of Oregon, Inc., its contractors and agents will maintain insurance policies with required insurance types and amounts required in the License Application. Certificate of Insurance will be provided prior to commencing operations

ATTACHMENT F: LAND USE COMPATIBILITY STATEMENT (LUCS)

Print Form

Oregon Department of Environmental Quality
LAND USE COMPATIBILITY STATEMENT

DEQ
State of Oregon Department of Environmental Quality

WHAT IS A LAND USE COMPATIBILTY STATEMENT (LUCS)? A LUCS is a form developed by DEQ to determine whether a DEQ permit or approval will be consistent with local government comprehensive plans and land use regulations.

WHY IS A LUCS REQUIRED? DEQ and other state agencies with permitting or approval activities that affect land use are required by Oregon law to be consistent with local comprehensive plans and have a process for determining consistency. DEQ activities affecting land use and the requirement for a LUCS may be found in Oregon Administrative Rules (OAR) Chapter 340, Division 18.

WHEN IS A LUCS REQUIRED? A LUCS is required for nearly all DEQ permits and certain approvals of plans or related activities that affect land use prior to issuance of a DEQ permit or approval. These permits and activities are listed in section 1.D on p. 2 of this form. A single LUCS can be used if more than one DEQ permit or approval is being applied for concurrently.

Permit modifications or renewals also require a LUCS when any of the following applies:
1. Physical expansion on the property or proposed use of additional land;
2. Alterations, expansions, improvements or changes in method or type of disposal at a solid waste disposal site as described in OAR 340-093-0070(4)(b);
3. A significant increase in discharges to water;
4. A relocation of an outfall outside of the source property; or
5. Any physical change or change of operation of an air pollutant source that results in a net significant emission rate increase as defined in OAR 340-200-0020.

HOW TO COMPLETE A LUCS:

Step	Who Does It?	What Happens?
1	Applicant	Applicant completes Section 1 of the LUCS and submits it to the appropriate city or county planning office.
2	City or County Planning Office	City or county planning office completes Section 2 of the LUCS to indicate whether the activity or use is compatible with the acknowledged comprehensive plan and land use regulations, attaches written findings supporting the decision of compatibility, and returns the signed and dated LUCS to the applicant.
3	Applicant	Applicant submits the completed LUCS and any supporting information provided by the city or county to DEQ along with the DEQ permit application or approval request.

WHERE TO GET HELP: For questions about the LUCS process, contact the DEQ staff responsible for processing the permit or approval. DEQ staff may be reached at 1-800-452-4011 (toll-free, inside Oregon) or 503-229-5630. For general questions, please contact DEQ land use staff listed at: www.deq.state.or.us/pubs/permithandbook/lucs.htm.

***CULTURAL RESOURCES PROTECTION LAWS**: Applicants involved in ground-disturbing activities should be aware of federal and state cultural resources protection laws. ORS 358.920 prohibits the excavation, injury, destruction, or alteration of an archeological site or object or removal of archeological objects from public and private lands without an archeological permit issued by the State Historic Preservation Office. 16 USC 470, Section 106, National Historic Preservation Act of 1966 requires a federal agency, prior to any undertaking, to take into account the effect of the undertaking that is included on or eligible for inclusion in the National Register. For further information, contact the State Historic Preservation Office at 503-378-4168, ext. 232.*

11-122595 PR

Oregon Department of Environmental Quality
LAND USE COMPATIBILITY STATEMENT (LUCS)

SECTION 1 - TO BE COMPLETED BY APPLICANT

A. Applicant Name: Waste Management of Oregon, Inc.	**B. Project Name:** Waste Management-AGILYX Project
Contact Name: Jeff Altman	**Physical Address:** 701 N. Hunt
Mailing Address: 5903 63rd Avenue CT NW	**City, State, Zip:** Portland, OR 97218
City, State, Zip: Gig Harbor, WA 98335	**Tax Lot #:** 1N1E10BD-01500, 01400,01200
Telephone: 360.801.5239	**Township:** 1N **Range:** 1E **Section:** 10
Tax Account #: R816100010, R816100100, R816100200	**Latitude:** 45.5622066
	Longitude: -122.6829204

C. Describe the project, include the type of development, business, or facility and services or products provided (attach additional information if necessary):

This project represents Phase 1 of a two Phase project to install an Agilyx waste plastic reclamation system. The project will be installed at an existing developed location which will be renovated to meet system requirements. The Agilyx system will convert ground waste plastic into synthetic crude oil. The system is comprised of individual modular vessels that are scaled to suit volume requirements. Eight reclamation vessels will be installed for Phase 1. Phase 2 will expand the initial system with eight additional vessels to provide additional capacity, for a total of 16 vessels. Phase 2 installation date is unknown at this time as it will depend on needed capacity requirements and future market conditions. The Agilyx system processes plastic resin types (nos. 1-7). On average, ten pounds of mixed plastic become one gallon of consistent, homogenous crude oil product. The plastic feedstock used in manufacturing is processed before using. It is reduced in size and pelletized to optimize product yield during manufacturing. During processing, any metal material (contaminants) present is also removed from the feedstock. Processed feedstock is put in storage silos until needed for use. Feedstock processing may take place at the project site or be done at another off site permitted facility.

D. Check the type of DEQ permit(s) or approval(s) being applied for at this time.

- ☐ Air Quality Notice of Construction
- ☑ Air Contaminant Discharge Permit *(excludes portable facility permits)*
- ☐ Air Quality Title V Permit
- ☐ Air Quality Indirect Source Permit
- ☐ Parking/Traffic Circulation Plan
- ☐ Solid Waste Land Disposal Site Permit
- ☑ Solid Waste Treatment Facility Permit (if required)
- ☐ Solid Waste Compost Facility Registration or Permit
- ☐ Solid Waste Letter Authorization Permit
- ☐ Solid Waste Material Recovery Facility Permit
- ☐ Solid Waste Energy Recovery Facility Permit
- ☐ Solid Waste Transfer Station Permit
- ☐ Waste Tire Storage Site Permit
- ☐ Pollution Control Bond Request
- ☐ Hazardous Waste Treatment, Storage, or Disposal Permit
- ☐ Clean Water State Revolving Fund Loan Request
- ☐ Wastewater/Sewer Construction Plan/Specifications *(includes review of plan changes that require use of new land)*
- ☐ Water Quality NPDES Individual Permit
- ☐ Water Quality WPCF Individual Permit *(for onsite construction-installation permits use the DEQ Onsite LUCS form)*
- ☐ Water Quality NPDES Stormwater General Permit *(1200-A, 1200-C, 1200-CA, 1200-COLS, and 1200-Z)*
- ☐ Water Quality General Permit *(all general permits, except 600, 700-PM, 1700-A, and 1700-B when they are mobile.)*
- ☐ Water Quality 401 Certification for federal permit or license

E. This application is for: ☐ Permit Renewal ☑ New Permit ☐ Permit Modification ☐ Other:

SECTION 2 - TO BE COMPLETED BY CITY OR COUNTY PLANNING OFFICIAL

Instructions: Written findings of fact for all local decisions are required; written findings from previous actions are acceptable. For uses allowed outright by the acknowledged comprehensive plan, DEQ will accept written findings in the form of a reference to the specific plan policies, criteria, or standards that were relied upon in rendering the decision with an indication of why the decision is justified based on the plan policies, criteria, or standards.

A. The project proposal is located: ☑ Inside city limits ☐ Inside UGB ☐ Outside UGB

B. Name of the city or county that has land use jurisdiction *(the legal entity responsible for land use decisions for the subject property or land use)*:

City of Portland, Bureau of Planning

11-122595 PR

Oregon Department of Environmental Quality
LAND USE COMPATIBILITY STATEMENT (LUCS)

SECTION 2 - TO BE COMPLETED BY CITY OR COUNTY PLANNING OFFICIAL

Applicant Name: Waste Mgmt of OR **Project Name:** AGILYX project

C. Is the activity or use allowed under Measure 49? ☒ No, Measure 49 is not applicable ☐ Yes; if yes, then check one:

☐ Express; approved by DLCD order #:

☐ Conditional; approved by DLCD order #:

☐ Vested; approved by local government decision or court judgment docket or order #:

D. Is the activity or use compatible with your acknowledged comprehensive plan as required by OAR 660-031? *Please complete this form to address the activity or use for which the applicant is seeking approval (see 1.C on the previous page). If the activity or use is to occur in multiple phases, please ensure that your approval addresses the phases described in 1.C. For example, if the applicant's project is described in 1.C as a subdivision and the LUCS indicates that only clearing and grading are allowed outright but does not indicate whether the subdivision is approved, DEQ will delay permit issuance until approval for the subdivision is obtained from the local planning official.*

☐ The activity or use is not regulated by the acknowledged comprehensive plan; explain:

☐ **YES**, the activity or use is pre-existing nonconforming use allowed outright by *(provide reference for local ordinance)*:

☒ **YES**, the activity or use is allowed outright by *(provide reference for local ordinance)*: Manufacturing & Production is allowed in IH zone, per table H0-1.

☐ **YES**, the activity or use received preliminary approval that includes requirements to fully comply with local requirements; findings are attached.

☐ **YES**, the activity or use is allowed; findings are attached.

☐ **NO**, see 2.C above, activity or use allowed under Measure 49; findings are attached.

☐ **NO**, *(complete below or attach findings for noncompliance and identify requirements the applicant must comply with before compatibility can be determined)*:

Relevant specific plan policies, criteria, or standards:

Provide the reasons for the decision:

Additional comments (attach additional information as needed):
No permit for the new development has yet been submitted. Any new development would be reviewed against all relevant standards.

Planning Official Signature: Jill M. Grenda **Title:** City Planner II

Print Name: Jill M. Grenda **Telephone #:** 503-823-3580 **Date:** 3/25/11

If necessary, depending upon city/county agreement on jurisdiction outside city limits but within UGB:

Planning Official Signature: **Title:**

Print Name: **Telephone #:** **Date:**

ATTACHMENT H: OTHER REQUIRED PERMITS

Oregon
John A. Kitzhaber, MD, Governor

Department of Environmental Quality
Northwest Region-Eastside Office
2020 SW Fourth Avenue, Suite 400
Portland, OR 97201-4987
(503) 229-5263
FAX (503) 229-6945
TTY 711

March 15, 2012

Jeff Altman
Waste Management of Oregon, Inc.
7227 NE 55th Ave.
Portland, Oregon 97218-1215

Re: Issuance of Air Contaminant Discharge Permit
Waste Management of Oregon, Inc.
Permit #26-0170-ST-01, application #26389

The Department of Environmental Quality has completed a review of your application for an Air Contaminant Discharge permit. Based on the information in that application, the Department has issued the enclosed permit.

The effective date of the permit is the date it was signed by the regional Air Quality Manager. The signature and date appear on the first page of the document. The permit is issued pursuant to Oregon Revised Statutes 468A and Oregon Administrative Rules (OAR) 340-14-005 through 340-14-050, and 216-0010 through 216-0100.

You may appeal conditions or limitations contained in the attached permit by applying to the Environmental Quality Commission, or its authorized representative, within twenty days from the date of this letter. Appeals are pursuant to ORS Chapter 183 and OAR Chapter 340, Division 14-025 (6). Appeal procedures are contained in OAR Division 11-005 through 11-140.

A copy of the current permit must be available at the facility at all times. Failure to comply with permit conditions may result in civil penalties. **You are expected to read the permit carefully and comply with all conditions** to protect the environment of Oregon.

If you have any questions, please contact Greg Grunow at 503-667-8414, extension 55015.

Sincerely,

David Monro
Air Quality Manager
Northwest Region

Enclosure
Cc: HQ/AQ
NWR

State of Oregon Department of Environmental Quality

STANDARD
AIR CONTAMINANT DISCHARGE PERMIT

Department of Environmental Quality
Northwest Region
2020 SW 4th Avenue, #400
Portland, Oregon 97201
(503) 229-5554

This permit is being issued in accordance with the provisions of ORS 468A.040 and based on the land use compatibility findings included in the permit record.

ISSUED TO:

Waste Management of Oregon, Inc.
dba WM Agilyx Wastech
7227 NE 55th Ave.
Portland, OR 97218

INFORMATION RELIED UPON:

Application No.: 026389
Date Received: 08/23/2011

PLANT SITE LOCATION:

WM Agilyx Wastech
701 N. Hunt Street
Portland, OR 97218

LAND USE COMPATIBILITY FINDING:

Approving Authority: City of Portland
Approval Date: 03/25/2011

ISSUED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY

David Monro, Northwest Region Air Quality Manager — Dated 3/15/12

Source(s) Permitted to Discharge Air Contaminants (OAR 340-216-0020):

Table 1 Code	Source Description	SIC (NAICS)
Part B, 53.	Organic or Inorganic Chemical Manufacturing and Distribution with ½ or more tons per year emissions of any one criteria pollutant	2869 (325199)

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1.0 GENERAL EMISSION STANDARDS AND LIMITS

1.1. Visible Emissions

The permittee must comply with the following visible emission limits, as applicable:

a. Emissions from any fuel burning equipment air contaminant source must not equal or exceed 20% opacity for a period aggregating more than 3 minutes in any one hour.

b. Emissions from any non-fuel-burning-equipment air contaminant source must not equal or exceed 20% opacity for a period aggregating more than 30 seconds in any one hour.

1.2. Particulate Matter Emissions

The permittee must comply with the following particulate matter emission limits, as applicable:

a. Particulate matter emissions from any fuel burning equipment must not exceed 0.1 grains per standard cubic foot, corrected to 12% CO_2 or 50% excess air.

b. Particulate matter emissions from any air contaminant source other than fuel burning equipment and fugitive emission sources must not exceed 0.1 grains per standard cubic foot.

1.3. Fugitive Emissions

The permittee must take reasonable precautions to prevent fugitive dust emissions by:

a. Treating vehicular traffic areas of the plant site under the control of the permittee.

b. Operating all air contaminant-generating processes so that fugitive type dust associated with the operation will be adequately controlled at all times.

c. Storing collected materials from air pollution control equipment in a covered container or other method equally effective in preventing the material from becoming airborne during storage and transfer.

1.4. Particulate Matter Fallout

The permittee must not cause or permit the emission of any particulate matter larger than 250 microns in size at sufficient duration or quantity, as to create an observable deposition upon the real property of another person. DEQ will verify that the deposition exists and will notify the permittee that the deposition must be controlled.

1.5. Nuisance and

The permittee must not cause or allow air contaminants from any source to cause a nuisance. Nuisance conditions will be verified

	Odors	by DEQ personnel.
1.6.	**Fuels and Fuel Sulfur Content**	The permittee must not combust any fuel other than natural gas, propane, or butane in the plastics reclamation process units (process units).

2.0 SPECIFIC PERFORMANCE AND EMISSION STANDARDS

2.1. VOC Abatement Unit (VAU) Operation

The permittee must operate and maintain the VAU as follows:

a. The facility's VOC Abatement Unit (VAU) must be operated at all times when one or more process units is operating.

b. A continuous temperature monitoring system must be installed to monitor the operating temperature of the VAU at all times when one or more process units is operating.

c. The operating temperature of the VAU must be maintained as follows:

i. During initial operation the operating temperature of the VAU must be maintained at a minimum of 1750° F.;

ii. After the performance of the initial source test, the operating temperature of the VAU must be maintained at the average operating temperature recorded during the most recent valid source test.

iii. The above operating temperatures are based on a rolling one hour average.

d. If, based upon a one hour average, the operating temperature of the VAU drops to more than 100°F below the average operating temperature identified above, the permittee must act to return the temperature to the established operating range within one hour of learning of the excursión. The temperature falling below this emission action level is not a violation of this permit condition, however, it is a violation of this permit condition if the permittee fails to promptly act as required to correct the operating temperature. Any period of one or more hours in which the operating temperature of the VAU falls more than 100°F below the operating temperature required in Condition 2.1.c.i. must be

documented by the permittee in an upset condition log. Each such event must be evaluated in the log entry in accordance with OAR 340-214-0330.

e. The exhaust stack of the VAU must be configured to comply with EPA's test Method 1 and appropriately equipped with sample ports for sample and velocity traverses while source testing.

2.2. VAU Visible Emissions Monitoring

The permittee must regularly perform visible emissions determinations of the VAU's stack exhaust gas emissions, as specified below:

a. Visible emissions monitoring must be performed in accordance with the procedures of EPA Method 22 (non-certified reader method) following the following schedule.

i. Daily Method 22 Testing - Perform a visual emissions determination once per day, on each day the process is in operation.

ii. Weekly Method 22 Testing - If no visible emissions are detected in 10 consecutive daily Method 22 tests, the permittee may decrease the frequency of testing to once each calendar week. If visible emissions are detected during a weekly test, a daily testing schedule must be resumed until 10 consecutive daily tests are again recorded during which no visible emissions are detected.

iii. Monthly Method 22 Testing - If no visible emissions are detected in 8 consecutive weekly Method 22 tests, the permittee may decrease the frequency of testing to once each calendar month. If visible emissions are detected during a monthly test, a weekly testing schedule must be resumed until 8 consecutive weekly tests are again recorded during which no visible emissions are detected.

b. Conduct each Method 22 test while the facility is operating under normal conditions.

c. The duration of each Method 22 test must be at least 15 minutes.

d. Visible emissions will be considered to be present if detected for more than three minutes of the fifteen minute period.

e. If visible emissions are detected:

i. Perform corrective actions until the visible fugitive emissions are eliminated.

ii. After completing the corrective action, perform a follow-up EPA Method 22 inspection for visible emissions. Conduct the test while operating under normal conditions.

iii. Notify DEQ (see Condition 8.4) of any visible emissions incident that cannot be remedied within 4 hours of its onset.

iv. Notify DEQ of any period of visible emissions incidents amounting to 4 hours or more in any calendar week.

v. The notification requirements identified above must be made within 60 minutes of the triggering event.

f. If visible emissions are observed at any time outside of the normal observation schedule it is the permittee's responsibility to treat the incident as a monitoring event in accordance with the corresponding schedule to which the permittee is subject and follow procedures identified above.

2.3. Process Gas Condensing Systems - Process Action Levels

The permittee must operate and maintain the process gas condensing systems as follows:

a. A system allowing continuous monitoring of chiller pump function (system on/off) must be installed for each overhead condenser system and operated during all hours of process unit operation.

b. The chiller pump must operate continuously during all hours of connected process unit operation.

c. A continuous monitoring system must be installed to monitor the operating temperature of the cooling fluid in each overhead condenser.

d. The temperature of the cooling fluid in each overhead condenser system must be maintained at ≤50°F at all times when one or more connected process units is operating.

e. If either the pump or operating temperature of the cooling fluid is observed operating outside the approved parameter range identified above, the permittee must act to return the

system to the established operating range within one hour of learning of the excursion. An excursion outside the identified action level is not a violation of this permit condition, however, it is a violation of the permit condition if the permittee fails to promptly act to perform the required corrective action. Any excursion period of one or more hours must be documented by the permittee in an upset condition log and evaluated in the log entry in accordance with OAR 340-214-0330.

2.4. Plastic Feedstock Restrictions

The permittee is permitted to process plastic feed stock materials including those derived from materials delivered to the Tualatin Valley Waste Recovery Facility, or a similar equipped WM-owned facility. All mixed feed stock materials must be pre-processed by a methodology designed to remove ≥ 90% of the PVC content. Non-mixed feed stock material is not subject to the pretreatment requirement, however, all non-mixed feed stock material accepted for processing by the permittee must not include any PVC content.

3.0 OPERATION AND MAINTENANCE REQUIREMENTS

3.1. Work practices

The permittee must observe the following work practice/maintenance requirements:

a. The permittee must maintain commercially manufactured equipment associated with the facility (i.e. PRU burners, Bekaert thermal oxidizer, Scully Overfill Protection System etc.) in accordance with the manufacturer's operating and maintenance specifications. Copies of such manufacturer's specifications must be maintained onsite or be electronically accessible or available for inspection within four hours. An integrated process O&M manual that summarizes the operation and maintenance specifications of the system's various equipment manufacturers will satisfy this requirement.

b. The permittee must maintain each process unit and associated pipes, ductwork, connectors, valves/flanges, pumps and compressors leak free and vapor tight. Leak free and vapor tight conditions are to be verified and achieved by complying with the following inspection and repair protocol:

i. The permittee must perform a weekly inspection of the facility's process units and associated

components in VOC service;

ii. The weekly inspection is to be done by evaluating the components using sight, sound and smell;

iii. An immediate attempt must be made to correct components identified to have recognized leaks. Components that cannot be repaired within 24 hours by such actions must be tagged and logged, noting the date of the identified leak;

iv. Leaking components must be repaired within 5 days;

v. Leaking components that are evaluated to not be repairable within the 5-day period must be reported to the Department, identifying the leaking component, the anticipated alternate repair period and the justification for an extended repair period.

vi. Leaking components that are taken out of service by isolation and bypass or process unit shutdown are not required to be reported to the Department as required by Condition 3.1.b.v.

vii. For reported leaking components the Department may require submission of an excess emission report in accordance with Condition 7.1.

4.0 PLANT SITE EMISSION LIMITS

4.1. Plant Site Emission Limits (PSEL)

Plant site emissions must not exceed the following:

Pollutant	Limit	Units
$PM/PM_{10}/PM_{2.5}$	9	tons per year
SO_2	39	tons per year
NO_X	39	tons per year
CO	99	tons per year
VOC	39	tons per year
GHGs (CO2e)	74,000*	tons per year
Single HAP	9	tons per year
Combined HAPs	24	tons per year

*note: GHG is expressed in standard tons (2000 lbs/ton) for PSEL compliance purposes; not metric tonnes as in GHG reporting requirements

4.2. Emission Limitation Period

The annual plant site emissions limits apply to any 12-consecutive calendar month period.

5.0 COMPLIANCE DEMONSTRATION

5.1. PSEL Compliance Monitoring

Compliance with the PSELs is determined for each 12-consecutive calendar month period based on the following calculation for each pollutant (see condition 5.3 for GHG monitoring):

$$E = \Sigma(EF \times P)/2000 \text{ lbs}$$

where,

= pollutant emissions (ton/yr);
= pollutant emission factor (see Condition 11.0);
= monitored parameter (see Condition 11.0)

5.2. Emission Factors

The permittee must use the default emission factors provided in Condition 11.0 for calculating pollutant emissions unless alternative emission factors are approved by DEQ. The permittee may request or DEQ may require using alternative emission factors provided they are based on actual test data or other documentation (e.g., AP-42 compilation of emission factors) that has been reviewed and approved by DEQ.

5.3. Greenhouse gas emissions

The permittee must use Department developed GHG calculation software or an equivalent accepted scientific method to demonstrate compliance with the GHG PSEL.

5.4. Source Testing Requirements

The permittee must conduct source testing of the VOC abatement unit stack exhaust gas for compliance and emission factor verification. Testing must be performed as specified below:

a. Schedule of required tests:

i. The permittee must conduct an initial source test of the VAU within 60 days after achieving normal operation, but not later than 180 days after start-up. During this test, the stack exhaust gas must be tested for PM, NO_X, CO, VOC, HCl and metal HAP emissions.

ii. Following completion of the initial performance testing identified above, the permittee must conduct source tests of the Bekaert VOC abatement unit once in each subsequent calendar quarter for three quarters. During these tests the abatement unit's stack exhaust gas must be tested for HCl emissions. Tests must be conducted at least 30 days apart.

iii. The permittee must conduct an emission

performance test of the VOC abatement unit's stack exhaust gas during the last 180 days of the fifth year this permit is in effect. The VAU stack exhaust gas must be tested for PM, VOC, HCl and metal HAP emissions.

b. The Department may approve an extension of a testing deadline stated above if the permittee provides adequate justification for the extension. The Department may require an extension if the facility's operating capacity appears insufficient to provide representative emission data.

c. During the source tests, stack exhaust gas must be sampled while the facility is operating at approximately its maximum normal operating capacity.

d. During each identified test, three test runs of emissions testing must be performed over periods representing the course of an entire process cycle.

e. The following parameters must be monitored and recorded during the source test:

   i. Quantity (in lbs) of plastic material processed;

   ii. Quantity (in gallons) of synthetic crude oil produced;

   iii. Operating temperature of the VAU, expressed as one-hour averages;

   iv. Temperature of the of the cooling fluid in each overhead condenser system expressed one-hour averages;

   v. Visible emissions as measured by EPA Method 9 for a period of at least six minutes during or within 30 minutes before or after each test run;

   vi. Other facility/process operating parameters identified prior to the test.

f. Test results should report measured emissions as ppmvd, lb/hr, lb/lb plastic processed and lb/gallon of product produced.

g. All tests must be conducted in accordance with the Department's Source Sampling Manual and the approved pretest plan. The pretest plan must be submitted at least 15 days prior to the intended test date and approved by the Regional Source Test Coordinator and/or Permit Writer.

Test data and results must be submitted to DEQ for review within 45 days of test completion unless otherwise approved in the pretest plan. See Condition 8.4 for appropriate address to submit test plans/reports.

h. Only regular operating staff may adjust the combustion system or production processes and emission control parameters during the source test and within two hours prior to the source test. Any operating adjustments made during the source test, which are a result of consultation with source testing personnel, equipment vendors or consultants, may render the source test invalid.

Tested Pollutant	Reference Test Method [1][3]
PM	Oregon Method 5[2] or EPA-202
NOx	EPA Method 7E
CO	EPA Method 10
VOC	EPA Method 25
HCl	EPA Method 26 or 26A
Metal HAPs	EPA Method 29
Opacity	EPA Method 9

[1] Substitution of alternative test method(s) must be approved by DEQ.

[2] All PM will be considered PM2.5 unless testing that distinguishes particle size distribution is performed.
[3] Methods 1-4 & 19 will be used as required.

6.0 MONITORING/RECORDKEEPING REQUIREMENTS

6.1. Continuous Monitoring

The permittee must monitor and maintain the following records related to the operation and maintenance of the plant and associated air contaminant control devices continuously during all hours of process unit operation:

a. The temperature in the combustion zone of the VAU.

b. The process gas condensing system's chiller pump function.

c. The operating temperature of the cooling fluid in each overhead condenser.

6.2. Daily Monitoring

The permittee must monitor and maintain records documenting

the performance of each daily EPA Method 22 visible emissions test and any associated corrective actions performed, as required by Condition 2.2.

6.3. Weekly Monitoring

The permittee must monitor and maintain the following weekly records:

a. The permittee must monitor and maintain records documenting the performance of each weekly EPA Method 22 visible emissions test and any associated corrective actions performed, as required by Condition 2.2.

b. The permittee must conduct a weekly facility inspection/monitoring program for leaking components in accordance with the requirements of Condition 3.1.b and must maintain associated records of the inspections, identifying leaking components and times and dates of corrective actions performed.

6.4. Monthly Monitoring

The permittee must monitor and maintain the following records related to the operation and maintenance of the facility and associated air contaminant control devices monthly:

a. The type and quantity of fuel combusted in the plastics reclamation process units (in $MMft^3$ for natural gas; in gallons for propane).

b. The quantity (in tons) of plastic feedstock material processed.

c. Copies of purchase orders, material specifications, inspections, etc. documenting that plastic feedstock materials (mixed and non-mixed) received for processing comply with Condition 2.4.

d. The quantity of synthetic crude oil produced (in gallons).

e. The permittee must monitor and maintain records documenting the performance of each weekly EPA Method 22 visible emissions test and any associated corrective actions performed, as required by Condition 2.2.

f. Using the compliance calculation procedures from Condition 5.1, perform a calculation of emissions for each pollutant type for which there is a PSEL, to demonstrate compliance with the rolling 12-month PSEL limitations of Condition 4.1 (see Condition 6.4.g for GHG specific monitoring requirements).

g. The permittee must monitor and maintain records of fuel usage and other parameters sufficient to demonstrate

compliance with the GHG PSEL and be able to determine emissions for any 12 consecutive month period(s).

6.5. Excess Emissions The permittee must maintain records of excess emissions as defined in OAR 340-214-0300 through 340-214-0340 (recorded on occurrence). Typically, excess emissions are caused by process upsets, startups, shutdowns, or scheduled maintenance. In many cases, excess emissions are evident when visible emissions are greater than 20% opacity for 3 minutes or more in any 60-minute period. If there is an ongoing excess emission caused by an upset or breakdown, the permittee must cease operation of the equipment or facility no later than 48 hours after the beginning of the excess emissions, unless continued operation is approved by DEQ in accordance with OAR 340-214-0330(4).

6.6. Complaint Log The permittee must maintain a log of all written complaints and complaints received via telephone that specifically refer to air pollution concerns associated to the permitted facility. The log must include a record of the permittee's actions to investigate the validity of each complaint and a record of actions taken for complaint resolution.

6.7. Retention of Records Unless otherwise specified, all records must be maintained on site for a period of two (2) years and made available to DEQ upon request.

7.0 REPORTING REQUIREMENTS

7.1. Excess Emissions The permittee must notify DEQ of excess emissions events if the excess emission is of a nature that could endanger public health.

a. Such notice must be provided as soon as possible, but never more than one hour after becoming aware of the problem. Notice must be made to the regional office identified in Condition 8.4 by email, telephone, facsimile, or in person.

b. If the excess emissions occur during non-business hours, the permittee must notify DEQ by calling the Oregon Emergency Response System (OERS). The current number is 1-800-452-0311.

c. The permittee must also submit follow-up reports when required by DEQ.

7.2. Semi-annual Report For each year this permit is in effect, the permittee must submit to DEQ by **August 15,** one (1) copy of the following information for

the period of January 1 through June 30 of the respective calendar year:

a. A statement of the facility's compliance status with the conditions of this permit.

b. Report all instances when visible emissions were detected (Condition 2.2.e), a description of the necessary corrective action(s) taken and the results of subsequent follow-up inspections.

c. A summary of complaints relating to air quality received by permittee during the period.

7.3. Annual Report

For each year this permit is in effect, the permittee must submit to DEQ by **February 15,** two (2) copies of the following information for the previous calendar year:

a. Operating parameters:

i. A statement of the facility's compliance status with the conditions of the permit for the calendar year. Any violations or exceedances must be explained in detail including corrective actions taken.

ii. The type and quantity of fuels combusted in the plastics reclamation process units;

iii. Identify the operating temperature set point of the VAU (see Condition 2.1.c.i).

iv. Identify all VAU operating temperature excursion events subject to upset log recording pursuant to Condition 2.1.d and provide a summary of each event duration and the corrective action performed.

v. For the semi-annual period July 1 through December 31, report all instances when visible emissions were detected (Condition 2.2.e), a description of the necessary corrective action(s) taken and the results of subsequent follow-up inspections.

vi. Identify the operating temperature set point (maximum) of each overhead condenser system (see Condition 2.3.d).

vii. Identify all temperature excursion events subject to process action level recording pursuant to Condition 2.3.e, provide a summary of each event duration and the corrective action performed.

viii. Identify all chiller pump operation excursion

b. Making any physical change or change in operation of an existing stationary source that will cause an increase, on an hourly basis at full production, in any regulated pollutant emissions; or

c. Constructing or modifying any air pollution control equipment.

7.8. Where to Send Reports and Notices Reports, with the permit number prominently displayed, must be sent to the Permit Coordinator for the region where the source is located as identified in Condition 8.3.

8.0 ADMINISTRATIVE REQUIREMENTS

8.1. Permit Renewal Application The completed application package for renewal of this permit is due on November 1st, 2016. Two (2) copies of the application must be submitted to the DEQ Permit Coordinator listed in condition 8.3.

8.2. Permit Modifications Application for a modification of this permit must be submitted not less than **60** days prior to the source modification. A special activity fee must be submitted with an application for the permit modification. The fees and two (2) copies of the application must be submitted to the DEQ Business Office.

8.3. Permit Coordinator Address All notices and applications (not requiring associated fees) should be sent to the attention of the Permit Coordinator of the Department's Northwest Regional Office. The address is as follows:

Department of Environmental Quality
Northwest Region
2020 SW 4th Avenue, Suite 400
Portland, OR 97201-4987
Telephone: (503) 229-5582

8.4. DEQ Regional Office Unless otherwise notified, submit all reports (source test plans and source test reports; annual, semi-annual, etc.) to the DEQ field office noted below.

Department of Environmental Quality
NWR-East Side Office - AQ
1550 NW Eastman Pkwy, Suite 290
Gresham, OR 97030
Telephone: (503) 667-8414

8.5. Department Contacts - General All inquiries about this permit should be directed to the regional office identified in Condition 8.4

8.6.	**Department Contacts - Internet**	Information about air quality permits and the Department's regulations may be obtained from the DEQ web page at www.deq.state.or.us.
8.7.	**EPA Administrator**	US Environmental Protection Agency Director, Air and Waste Management Division 1200 Sixth Avenue Seattle, WA 98101

9.0 FEES

9.1.	**Annual Compliance Fee**	The Annual Fee specified in OAR 340-216-0020, Table 2, Part 2 for a Standard ACDP is due on **December 1** of each year this permit is in effect. An invoice indicating the amount, as determined by DEQ regulations will be mailed prior to the above date. **Late fees in accordance with Part 4 of the table will be assessed as appropriate.**
9.2.	**Greenhouse Gas Reporting Fee**	If the permittee is subject to registration and annual Greenhouse Gas Reporting pursuant to OAR 340-215, applicable fees must received by DEQ within 30 days after the Department mails the associated fee invoice. **Late fees in accordance with Part 4 of the table will be assessed as appropriate.**
9.3.	**Change of Ownership or Company Name Fee**	The non-technical permit modification fee specified in OAR 340-216-0020, Table 2, Part 3(a) is due with an application for changing the ownership or the name of the company.
9.4.	**Special Activity Fees**	The special activity fees specified in OAR 340-216-0020, Table 2, Part 3 (b through i) are due with an application to modify the permit.
9.5.	**Where to Submit Fees**	Fees must be submitted to: Department of Environmental Quality Business Office 811 SW Sixth Avenue Portland, Oregon 97204-1390

10.0 GENERAL CONDITIONS AND DISCLAIMERS

10.1.	Permitted Activities	This permit allows the permittee to discharge air contaminants from processes and activities related to the air contaminant source(s) listed on the first page of this permit until this permit expires, is modified, or is revoked.

10.2. Other Regulations In addition to the specific requirements listed in this permit, the permittee must comply with all other legal requirements enforceable by DEQ.

10.3. Conflicting Conditions In any instance in which there is an apparent conflict relative to conditions in this permit, the most stringent conditions apply.

10.4. Masking of Emissions The permittee must not cause or permit the installation of any device or use any means designed to mask the emissions of an air contaminant that causes or is likely to cause detriment to health, safety, or welfare of any person or otherwise violate any other regulation or requirement.

10.5. Department Access The permittee must allow DEQ's representatives access to the plant site and pertinent records at all reasonable times for the purposes of performing inspections, surveys, collecting samples, obtaining data, reviewing and copying air contaminant emissions discharge records and conducting all necessary functions related to this permit in accordance with ORS 468-095.

10.6. Permit Availability The permittee must have a copy of the permit available at the facility at all times.

10.7. Open Burning The permittee may not conduct any open burning except as allowed by OAR 340 Division 264.

10.8. Asbestos The permittee must comply with the asbestos abatement requirements in OAR 340, Division 248 for all activities involving asbestos-containing materials, including, but not limit to, demolition, renovation, repair, construction, and maintenance.

10.9. Property Rights The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

10.10. Permit Expiration

a. A source may not be operated after the expiration date of the permit, unless any of the following occur prior to the expiration date of the permit:

   i. a timely and complete application, for renewal or for an Oregon Title V Operating Permit, has been submitted, or

   ii. another type of permit (ACDP or Oregon Title V Operating Permit) has been issued authorizing operation of the source.

b. For a source operating under an ACDP or Oregon Title V Operating Permit, a requirement established in an earlier ACDP remains in effect notwithstanding expiration of the

ACDP, unless the provision expires by its terms or unless the provision is modified or terminated according to the procedures used to establish the requirement initially.

10.11. Permit Termination, Revocation, or Modification

DEQ may modify or revoke this permit pursuant to OAR 340-216-0082 and 340-216-0084.

11.0 EMISSION FACTORS

Process	Pollutant (n)	Monitored Parameter (P)	Emission Factor (EF)	EF units	Reference
Plastics Reclamation Process Units – Fuel Combustion	$PM/PM_{10}/PM_{2.5}$	ft^3 nat. gas combusted	2.5	lb/MM ft^3	AP-42
		gal propane combusted	0.7	lb/10^3 gal	AP-42
	SO_2	ft^3 nat. gas combusted	2.6	lb/MM ft^3	ODEQ
		gal propane combusted	0.10S[1]	lb/10^3 gal	AP-42
	NO_X	ft^3 nat. gas combusted	100	lb/MM ft^3	AP-42
		gal propane combusted	13	lb/10^3 gal	AP-42
	CO	ft^3 nat. gas combusted	84	lb/MM ft^3	AP-42
		gal propane combusted	7.5	lb/10^3 gal	AP-42
	VOC	ft^3 nat. gas combusted	5.5	lb/MM ft^3	AP-42
		gal propane combusted	0.8	lb/10^3 gal	AP-42
Process Operations	$PM/PM_{10}/PM_{2.5}$	Tons of plastic processed	0.44	lb/ton processed	Source Test[2]
	SO_2	Tons of plastic processed	0.6	lb/ton processed	Source Test[2]
	NO_X	Tons of plastic processed	3.0	lb/ton processed	Source Test[2]
	CO	Tons of plastic processed	0.10	lb/ton processed	Source Test[2]
	VOC	Tons of plastic processed	0.04	lb/ton processed	Source Test[2]
	Individual HAP[3]	Tons of plastic processed	0.14	lb/ton processed	Source Test[2]
	Total HAPs	Tons of plastic processed	0.3	lb/ton processed	Source Test[2]

1. S equals the sulfur content expressed in gr/100 ft^3 gas vapor. For example, if the propane sulfur content is 0.18 gr/100 ft^3, the emission factor would be (0.10 x 0.18) = 0.018 lb of $SO^2/10^3$ gallons of propane burned.
2. Stated emission factor based on source test performed on a similar process and Bekaert pollution control device at the Agilyx Corporation. Source testing to be performed for emission factor verification.
3. Individual HAP represents HCl, the only individual HAP the permittee is estimated to have potential to emit above the de minims emission rate of 1 ton/yr.

12.0 ABBREVIATIONS, ACRONYMS, AND DEFINITIONS

ACDP	Air Contaminant Discharge Permit
ASTM	American Society for Testing and Materials
AQMA	Air Quality Maintenance Area
calendar year	The 12-month period beginning January 1st and ending December 31st
CFR	Code of Federal Regulations
CO	carbon monoxide
CO_2e	carbon dioxide equivalent
DEQ	Oregon Department of Environmental Quality
dscf	dry standard cubic foot
EPA	US Environmental Protection Agency
FCAA	Federal Clean Air Act
Gal	gallon(s)
GHG	greenhouse gas
gr/dscf	grains per dry standard cubic foot
HAP	Hazardous Air Pollutant as defined by OAR 340-244-0040
I&M	inspection and maintenance
lb	pound(s)
MMBtu	million British thermal units
NA	not applicable
NESHAP	National Emissions Standards for Hazardous Air Pollutants
NO_X	nitrogen oxides
NSPS	New Source Performance Standard
NSR	New Source Review
O_2	oxygen
OAR	Oregon Administrative Rules
ORS	Oregon Revised Statutes
O&M	operation and maintenance
Pb	lead
PCD	pollution control device
PM	particulate matter
PM_{10}	particulate matter less than 10 microns in size
$PM_{2.5}$	particulate matter less than 2.5 microns in size
ppm	part per million
PSD	Prevention of Significant Deterioration
PSEL	Plant Site Emission Limit
PTE	Potential to Emit
RACT	Reasonably Available Control Technology
scf	standard cubic foot
SER	Significant Emission Rate
SIC	Standard Industrial Code
SIP	State Implementation Plan
SO_2	sulfur dioxide
Special Control Area	as defined in OAR 340-204-0070
VE	visible emissions
VOC	volatile organic compound
year	A period consisting of any 12-consecutive calendar months

CITY OF PORTLAND
ENVIRONMENTAL SERVICES

Water Pollution Control Laboratory
6543 North Burlington Avenue, Portland, Oregon 97203-5452 Dean Marriott, Director

INDUSTRIAL WASTEWATER DISCHARGE PERMIT APPLICATION

In Accordance with the Federal Clean Water Act and ORS 468B, the City of Portland operates a mandated program for the regulation of discharges of industrial wastewater to the City's sewer collection system. This program is implemented through a National Pollutant Discharge Elimination System (NPDES) permit and the City Code Chapter 17.34.

The Bureau of Environmental Services, through its Industrial Source Control Division, is responsible for the protection of the sewer collection system and public health and safety. The Division administers wastewater discharge permits as outlined on the City Code Chapter 17.34. These permits describe the manner of discharge, applicable pollutant limitations, and other terms and conditions of wastewater discharges. By completing the *Industrial Wastewater Discharge Permit Application*, you are helping the City of Portland meet its requirements.

Confidential Information

As outlined in 40 CFR 403.14 (a)-(c) and ORS 192.430, any information submitted to the City under the Pretreatment Program requirements may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission in the manner prescribed on the application form or instructions, or, in the case of other submissions, by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, the City may make the information available to the public without further notice. If a claim is asserted, the information will be treated in accordance with the procedures in 40 CFR part 2 (Public Information) and ORS 192.440(2).

Information and data provided to the City under these requirements that is effluent data shall be available to the public without restriction.

All other information that is submitted to the State or POTW shall be available to the public at least to the extent provided by 40 CFR 2.302 and ORS 192.440(2).

If, at any time, there is insufficient space to complete an answer, continue your response on a separate piece of paper. Indicate the section and question number next to your respons

INDUSTRIAL WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION I: GENERAL INFORMATION

Confidential Information - Indicate those sections of this application that you wish to remain confidential *as well as* your reasons for requiring confidentiality. Wastewater discharge characteristics can not be considered confidential.

1. **Waste Management of Oregon, Inc.**
(Company Name)

2. **Waste Management Agilyx Wastech (Wastech)**
(Facility Name)

3. **701 North Hunt**
(Facility Address, Street)

Portland (City) **Oregon** (State) **97218** (Zip Code)

4. **5903 63rd Avenue CT NW**
(Mailing Address, Street/PO. Box)

Gig Harbor (City) **Washington** (State) **98335** (Zip Code)

5. Provide the name of the person to contact on information contained in this questionnaire:

Jeff Altman (Name) **(253) 509-0375** (Phone)

Area Environmental Manager (Title) **(713) 286-7541** (Fax)

6. Initial startup date of operations at this facility: **5/1/2012 (*estimated*)**

7. Person to be contacted in case of an emergency at this facility:

Matt Stern	**(503) 894-1160**
Name	Phone
Area Director of Recycling Operations	**(800) 481-1395**
Title	Fax

8. Is all of the information previously submitted in your facility's *Environmental Survey Part II*, still current, up-to-date, and correct?

Yes [ ] No [X]

{A copy of our facility's Environmental Survey Part II is included for your reference.}

If you checked No, make the needed changes to the enclosed Environmental Survey Part II, initial and date all changes and send in the corrected copy of the Survey with the completed Permit Application.

The Environmental Survey Part II, completed for this new facility, is included in this application.

SECTION II: FACILITY PROCESS FLOW INFORMATION

1. For your facility, provide the following flows for each of your processes or proposed processes (i.e., manufacturing process line or other processes that may generate process wastewater).

Total Plant Flow in Gallons Per Day (gpd) discharged to the sanitary sewer collection system:

Daily Average **12,000 gal/day** Daily Maximum **18,000 gal/day**

Individual Process Flows in Gallons Per Day (gpd)

Process Description	Average Flow, gpd	Maximum Flow, gpd	Type of discharge
Plastics Reclamation Unit converts mixed waste plastics (MWP) into synthetic crude oil. Consists of 16 primary processing vessels and associated process equipment that condenses, separates, and conditions the hydrocarbon vapors generated by the PRUs to produce the crude oil product	**9,000**	**13,500**	**Treated waste-water**
Cooling Water (non-contact) cools process stream and recirculates through cooling towers.	**2,200**	**3,300**	**Cooling Tower Discharge**
Equipment Cleaning (periodic)	**100**	**150**	**Treated wastewater**
Domestic Water	**700**	**1,050**	**Sanitary**

2. Is an inspection or sampling manhole structure available on-site? Yes [ ] No [X]

- If No, is one planned? Yes [X] No [ ]
- If Yes, provide location below and include as part of the process flow schematic and description **(See Attachments B-1 Process Flow Diagram and B-2 Process Description).**
- Location description: **Wastewater discharge inspection and sampling station will be installed as part of the new facility, located upstream from wastewater outfall.**

SECTION II: FACILITY PROCESS FLOW INFORMATION, Continued

3. Do you have, or plan to have, automatic sampling equipment or continuous wastewater flow metering equipment in use or included in future plans?

•	Current:	Flow Metering	Yes [ ]	No [ ]	N/A [X]
		Sampling Equipment	Yes [ ]	No [ ]	N/A [X]
•	Planned:	Flow Metering	Yes [X]	No [ ]	N/A [ ]
		Sampling Equipment	Yes [ ]	No [X]	N/A [ ]

If Yes, describe the equipment below and indicate the present or future location of this equipment on the process flow schematic in Attachment B:

Wastewater discharge flow meter will be installed as part of the new facility, located downstream from process wastewater discharge.

4. Please describe below, or on a separate sheet of paper, any previous spills or slug discharges from the facility. Also list the clean-up actions taken as well as the remedial measures put in place to prevent a reoccurrence.

There have been no previous spills or slug discharges from the facility. Permit is for a new, currently unconstructed facility.

PART B. CATEGORICAL INDUSTRIAL FACILITIES

1. Summarize each regulated process: (report concentrations in mg/L or mass in lbs.).

Regulated Process Description	Production Rate	Process Flow	SIC Code	Pretreatment Category
Plastics Reclamation Unit – converts mixed waste plastics into synthetic crude oil. Consists of 16 primary processing vessels and associated process equipment that condenses, separates, and conditions hydrocarbon vapors generated by the PRU to produce the crude oil product	9500 gal/day - synthetic crude oil	9,000 gal/day (daily average)	2869	Organic Chemicals, Plastics, and Synthetic Fibers: Indirect Discharges (40 CFR Part 414, Subpart I)

Total plant flow: (In gallons per day, gpd) 12,000 gal/day (daily average)

2. Provide name and address of the commercial testing lab(s) who is (are) performing analyses:

ALS Laboratories (formerly Columbia Analytical Services)
(Laboratory Name)

1317 South 13th Avenue
(Street Address)

Kelso (City) | Washington (State) | 96662 (Zip Code)

360-577-7222 (Phone) | 360-636-1068 (Fax)

3. List the Certification Program(s) in which the laboratory participates:

- **USEPA: Unregulated Contaminant Monitoring Rule (UCMR2) and Discharge Monitoring Report Quality Assurance Program (DMR-QAP)**
- **National Environmental Laboratory Accreditation Program (NELAP): Certified Laboratory.**
- **In Oregon: Drinking Water (Safe Drinking Water Act), Wastewater (Clean Water Act), Solid/ Hazardous Waste (RCRA), and Tissue.**

4. Compliance Certification: Compare the sample results against the listed Categorical Standards and those listed in the Local Limits (Table 1).

Wastech expects to meet applicable pretreatment standards and local limits consistently. Since this is a new facility, baseline monitoring data is not available at this time. Instead, estimated discharge concentrations for pollutants listed in Local Limits and Categorical Standards are attached to this application. (Attachments D and E, respectively)

a.) Is the facility meeting applicable pretreatment standards on a consistent basis?

Yes [ ] No [ ] Don't Know [X]

If Don't Know, then compliance must be evaluated after the baseline monitoring is completed.

b.) Additional operation and maintenance (O&M) to achieve compliance?

Yes [ ] No [ ] **Not Applicable**

c.) New or additional pretreatment facilities to achieve compliance?

Yes [ ] No [ ] **Not Applicable**

If additional O&M or new or additional pretreatment will be required for the facility to meet pretreatment standards on a consistent basis, attach a description of what is required and a proposed schedule for completion of the work.

d.) I have provided a compliance schedule.

Yes [ ] No [ ] **Not Applicable**

Describe the compliance schedule of events on a separate sheet. Detail what the proposed work entails and the proposed due dates for each of the tasks involved. The proposed compliance schedule is subject to prior approval by the City.

5. Total Toxic Organics (TTOs): Facilities covered by a TTO pretreatment standard must initially sample for the listed TTOs to help determine compliance. Contact the City's Industrial Source Control Division for a listing of the TTOs applicable to your industrial category. See also the table in Attachment A. **Not Applicable. This facility is NOT covered by a Total Toxic Organics pretreatment standard.**

a.) We presently use or plan to use toxic organics listed in the categorical pretreatment standards.

Yes [ ] No [ ] If "Yes" then: **Not Applicable.**

b.) A solvent management plan has been developed and is attached.

Yes [ ] No [ ] **Not Applicable.**

If "No," attach a proposed schedule to develop and implement a Solvent Management Plan with due dates for each of the tasks involved. The proposed schedule is subject to prior approval by the City.

c.) I have provided a proposed schedule to develop and implement a Solvent Management Plan.

Yes [ ] No [ ] **Not Applicable.**

SECTION IV: SIGNATURES & CERTIFICATIONS

Qualified Professional Certification:

I hereby certify under penalty of law that this information was obtained in accordance with the applicable procedures and requirements as specified in the General Pretreatment Regulations and amendments thereto and the City's sewer use ordinance. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

JEFF ALTMAN
Name (print)

AREA ENVIRONMENTAL MGR
Title

Signature

2/8/2012
Date

Authorized Representative Statement: {40 CFR 403.6(a)(2)(ii)}

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 is true accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

ADAM C. WINGATE
Name (print)

VICE PRESIDENT
Title

Signature

2/8/12
Date

ATTACHMENT A PRIORITY POLLUTANTS

Priority Pollutant Information

1. Indicate by placing an "X" in the appropriate space by each listed chemical whether it is Suspected to be Absent, Known to be Absent, Suspected to be Present, or Known to be Present in your manufacturing or service activity, or generated as a byproduct.

No.	Pollutant of Concern	Known Absent	Suspected Absent	Suspected Present	Known Present	Annual Usage (lb./yr.)	Loss to Sewer (lb./yr.) Note 2
1.	asbestos (fibrous)		X				
2.	cyanide (total)		X				
3.	antimony (total)				X	Note 1	**None expected**
4.	arsenic (total)		X				
5.	beryllium (total)		X				
6.	cadmium (total)				X	Note 1	**19** (*estimated*)
7.	chromium (total)				X	Note 1	**140** (*estimated*)
8.	copper (total)		X				
9.	lead (total)				X	Note 1	**19** (*estimated*)
10.	mercury (total)		X				
11.	nickel (total)				X	Note 1	**77** (*estimated*)
12.	selenium (total)				X	Note 1	**16** (*estimated*)
13.	silver (total)		X				
14.	thallium (total)		X				
15.	zinc (total)				X	Note 1	**100** (*estimated*)
16.	acenaphthene		X				
17.	acenaphthylene		X				
18.	acrolein		X				
19	acrylonitrile				X	Note 1	**None expected**
20.	aldrin	X					
21.	anthracene		X				
22.	benzene				X	Note 1	**None expected**
23.	benzidine		X				
24	benzo(a)anthracene		X				
25.	benzo(a)pyrene		X				
26.	benzo(b)fluoranthene		X				
27.	benzo(g,h,i)perylene		X				
28	benzo(k)fluoranthene		X				
29.	a-BHC(alpha)	X					
30.	b-BHC(beta)	X					
31.	d-BHC(delta)	X					
32.	G-BHC*(gamma)	X					
33.	bis(2-chloroethyl)ether		X				
34.	bis(2-chloroethoxy)methane		X				
35.	bis(2-chloroisopropyl)ether		X				
36.	bis(chloromethyl)ether		X				
37.	bromodichloromethane		X				
38.	bis(2-ethythexyl)phthalate		X				
39.	bromoform		X				
40.	bromomethane		X				
41.	4-bromophenyl phenylether		X				

42.	butylbenzyl phthalate		X				
43.	carbon tetrachloride		X				
44.	chlordane	X					
45.	4-chloro-3-ethylphenol	X					
46.	chlorobenzene		X				
47.	chloroethane				X	Note 1	**None expected**
48.	2-chloroethylvinyl ether	X					
49.	chloroform		X				
50.	chloromethane				X	Note 1	**None expected**
51.	2-chloronaphthalene		X				
52.	2-chlorophenol	X					
53.	4-chlorophenylphenyl ether	X					
54.	chrysene		X				
55.	4,4'-DDE	X					
56.	4,4'- DDD	X					
57.	4,4'-DDT	X					
58.	dibenzo(a,h)anthracene		X				
59.	dibromochloromethane		X				
60.	1,2-dichlorobenzene		X				
61.	1,3-dichlorobenzene		X				
62.	1,4-dichlorobenzene		X				
63.	3,3-dichlorobenzidine		X				
64.	dichlorodifluoromethane		X				
65.	1,1-dichloroethane		X				
66.	1,2-dichloroethane		X				
67.	1,1-dichloroethene		X				
68.	trans-1,2-dichloroethene		X				
69.	1,4-dichlorophenol	X					
70.	1,2-dichloropropane		X				
71.	(cis&trans)1,3-dichloropropene		X				
72.	dieldrin	X					
73.	diethyl phthalate		X				
74.	2,4-dimethylphenol		X				
75.	dimethyl phthalate		X				
76.	di-n-butyl phthalate		X				
77.	di-n-ocytl phthalate		X				
78.	4,6-dinitro-2-methylphenol	X					
79.	1,4-dinitrophenol	X					
80.	1,4-dinitrotoluene	X					
81.	2,6-dinitrotoluene	X					
82.	1,2-diphenythydrazine		X				
83.	endosulfan t	X					
84.	endosulfan tt	X					
85.	endosulfan sulfate	X					
86.	endrin	X					
87.	endrin aldehyde	X					
88.	ethylbenzene				X	Note 1	**None expected**
89.	fluoranthene		X				
90.	fluorene		X				

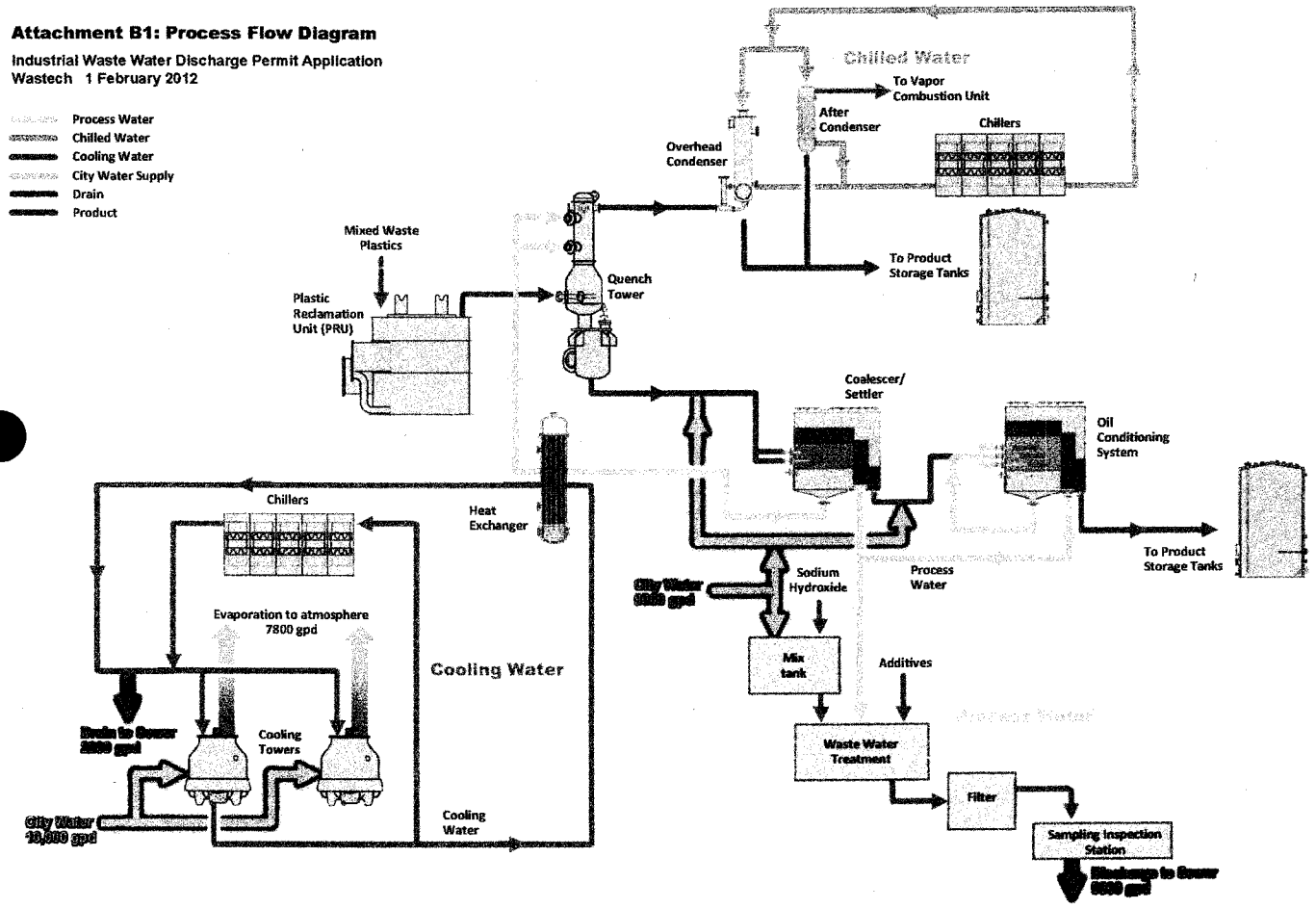
91.	heptachlor	X					
92.	heptachlor epoxide	X					
93.	hexachlorobenzene	X					
94.	hexachlorobutadiene		X				
95.	hexachlorocyclobentadiene		X				
96.	hexachloroethane		X				
97.	indeno (1,2,3-cd)pyrene		X				
98.	isophorone		X				
99.	methylene chloride		X				
100.	naphthalene		X				
101.	nitrobenzene	X					
102.	2-nitrophenol	X					
103.	4-nitrophenol	X					
104.	n-nitroso-dimethylamine		X				
105.	n-nitroso-dipropylamine		X				
106.	n-nitroso-diphenylamine		X				
107.	PCB-1016	X					
108.	PCB-1221	X					
109.	PCB-1232	X					
110.	PCB-1242	X					
111.	PCB-1248	X					
112.	PCB-1254	X					
113.	PCB-1260	X					
114.	pentachlorophenol	X					
115.	phenyl anthracene		X				
116.	phenol				X	Note 1	**19,000** (*estimated*)
117.	pyrene		X				
118.	2,3,7,8-tetrachlorodibenzo-p-dioxin		X				
119.	1,1,2,2-tetrachloroethane		X				
120.	tetrachloroethene		X				
121.	toluene				X	Note 1	**None expected**
122.	toxaphene	X					
123.	1,2,4-trichlorobenzene		X				
124.	1,1,1-trichloroethane		X				
125.	1,1,2-trichloroethane		X				
126.	trichloroethene		X				
127.	trichlorofluoromethane		X				
128.	2,4,6-trichlorophenol	X					
129.	vinyl chloride		X				

Note 1: **These compounds are low-level contaminants in synthetic crude oil product. They are not used as raw materials or additives in the manufacturing process or any servicing activity.**

Note 2: **Loss to sewer was calculated using the estimated maximum pollutant concentration from Attachment D and wastewater discharge rate of 9000 gallons per day.**

Attachment B1: Process Flow Diagram

Industrial Waste Water Discharge Permit Application
Wastech 1 February 2012



ATTACHMENT B-2 PROCESS DESCRIPTION

Summary:

The Agilyx Plastics Reclamation Unit is a proprietary system that converts mixed waste plastics (MWP) into synthetic crude oil. The future Wastech facility will consist of sixteen primary processing vessels called Plastic Reclamation Units (PRUs) and associated process equipment that condenses, separates, and conditions the hydrocarbon vapors generated by the PRUs to produce the crude oil product. Ancillary equipment and systems perform plastics filling, cleaning and oil storage.

Process Description:

MWP is charged to a Direct Contact Cartridge (DCC), and the DCC is placed in a PRU. The PRU is connected to a vacuum source and heated to about 1100 F over a five-hour batch cycle. Sixteen natural gas-fired burners, one for each PRU, heat the recirculating air which heats the plastic in the PRU. As the plastic feedstock melts, its long-chain polymers molecules are broken down into smaller molecules, which leave the PRU as hydrocarbons vapors and non-condensable gas.

The hydrocarbon vapors are treated in the Oil Processing system to produce crude oil product. First they are cooled and condensed by direct contact with water in a Quench Tower. Synthetic crude oil is separated from the oil-water mixture that leaves the Quench Tower in the Coalescer-Separator System (CSS), conditioning in the Oil Conditioning System (OCS), then collected in the Product Storage Tanks.

City Water Usage and Wastewater Discharge:

Cooling Water System - Non-contact cooling water is used to cool the process water from the CSS recirculated to the Quench Tower. The system uses city water to make-up for evaporative losses from the twin cooling towers. A small blow-down from the cooling towers is periodically discharged as wastewater to the sewer (2,200 gal/day, average daily discharge).

Chilled Water System – Non-contact chilled water is used to condense hydrocarbon gases and vapors from the Quench Tower via two condensers in series (Overhead and After Condensers). Chilled Water is recirculated through chillers in a closed loop system. Upon start-up and for periodic scheduled maintenance, city water is used to fill the system (about 800 gallons), and chilled water in the equipment is discharged to the sewer as wastewater.

Process Water System – Process water streams are recirculated a) between the CSS and Quench Tower, and b) within the OCS. A small bleed from each recirculation loop is treated via a two-stage pH adjustment and enhanced coagulation/filtration treatment process, and then discharged as wastewater to the sewer.

This pre-treatment process neutralizes the wastewater and removes metal and organic compounds with coagulation, flocculation and filtration. Coagulant such as ferric sulfate and a filter aid are used to enhance adsorption and filtration. This is a two-step process. The main

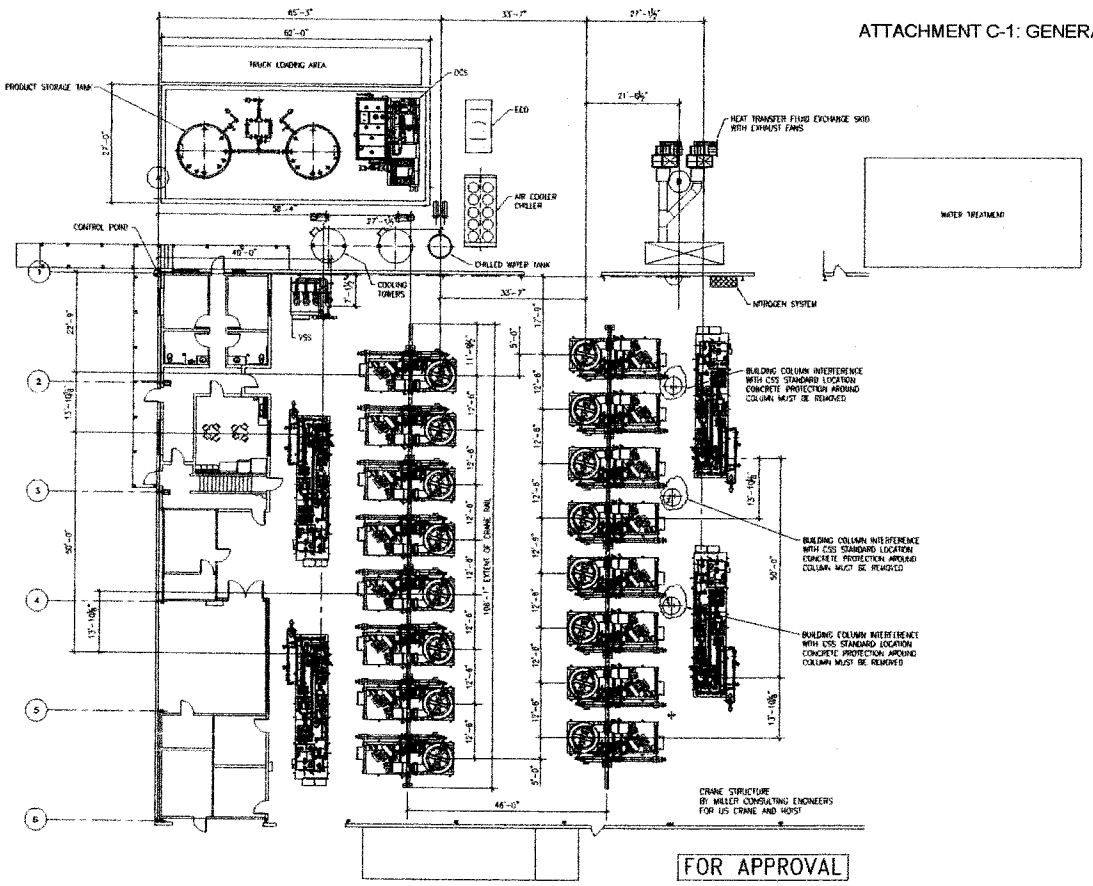
treatment tank design is a compartmentalized gravity-flow system. The tank, metering pumps, mixers, instruments, and controls are part of the treatment system. City water is used to make up sodium hydroxide and other additive solutions, as well as make-up for process water bleeds.

Treatment steps are also depicted in the table below.

Table 1 Process Wastewater Treatment

Additive or Operation	Function	Pollutant Removed
Sodium Hydroxide	pH Adjustment	Free negatively-charged ions such as chlorine, bromine
Polyelectrolyte	Coagulant	Metals such as cadmium, chromium, nickel, lead. Residual organics
Ferric Sulfate (or similar)	Coagulant	
Activated Carbon (powdered)	Floculant	n/a
Filtration	Particulate removal.	n/a
Skimmer		Oil, grease, suspended solids.

ATTACHMENT C-1: GENERAL ARRANGEMENT



NOTE:

- NO HEAT EXCHANGER REQUIRED FOR COOLING WATER

agilyx

2	MODIFIED PER CONFERENCE CALL	WFS	12/08/11
1	UPDATED CRANE LEGS & ADDED EQUIPMENT	WFS	12/13/11
0	ISSUE FOR APPROVAL	JRP	11/2/2011

THIS DRAWING IS CONSIDERED CONFIDENTIAL AND PROPRIETARY. DUPLICATION OR TRANSFER, AND COMMUNICATION TO OTHERS IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF AGILYX

agilyx

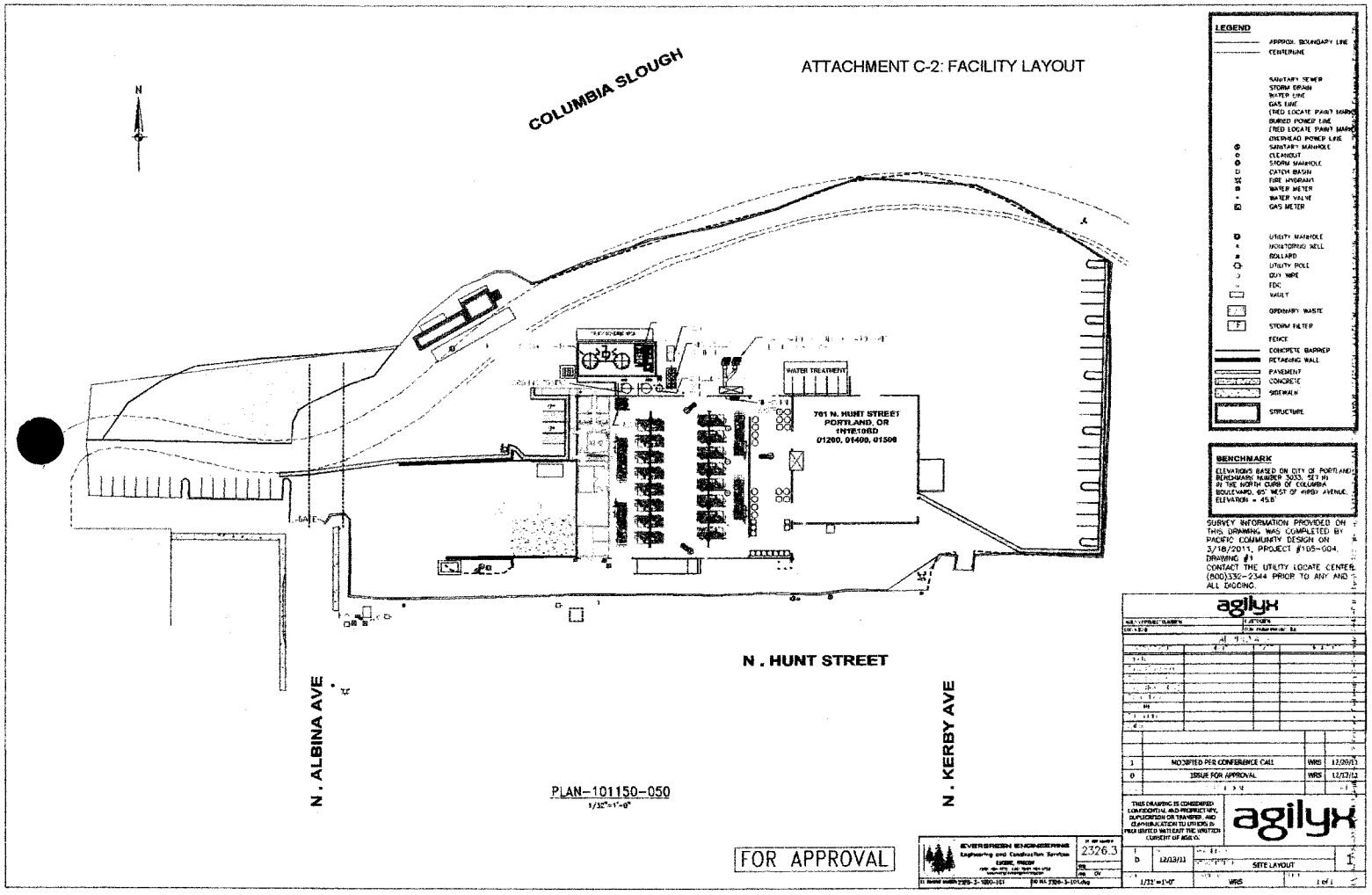
D 11/2/2011 GENERAL ARRANGEMENT 2

EVERGREEN ENGINEERING
Engineering and Construction Services
SUBLIM. GREEN

2328.3

3032"x1414" JHH 1 OF 1

ATTACHMENT C-2: FACILITY LAYOUT



ATTACHMENT D - ESTIMATED WASTEWATER DISCHARGE

Compared to LOCAL DISCHARGE LIMITS for City of Portland

COMPANY NAME:	WASTECH		
FACILITY ADDRESS:	701 North Hunt Street Portland, OR		
PROCESS DESCRIPTION:	Plastics Reclamation – conversion of mixed waste plastics into synthetic crude oil.		
SIC CODE(S):	2869	ESTIMATED FLOW (GPD):	9000

	Pollutant	Estimated Discharge (in units indicated)	
		Daily Maximum	Monthly Average
Metals:			
	Arsenic	Not expected to be present	
	Cadmium	< 0.7 mg/l	
	Chromium	< 5.0 mg/l	
	Copper	Not expected to be present	
	Lead	< 0.7 mg/l	< 0.3 mg/l
	Mercury	Not expected to be present	
	Molybdenum	Not expected to be present	
	Nickel	< 2.8 mg/l	
	Selenium	< 0.6 mg/l	
	Silver	Not expected to be present	
	Zinc	< 2.6 mg/l	< 1.0 mg/l
Non-Metals:			
	BOD_5	<12,800 mg/l	
	Closed Cup Flash Point	> 200°F	
	Cyanide	Not expected to be present	
	Ammonia	Not expected to be present	
	Non-polar Fats, Oil, & Grease	< 100 mg/l	
	pH	6.0 – 10.0	
	Total Suspended Solids	< 250 mg/l	
	Dissolved Sulfide	Not expected to be present	
	BETX	< 6 mg/l	
Organic Compounds:			
	Acrylonitrile	Not expected to be present	
	Chlordane	Not expected to be present	
	Chlorobenzene	Not expected to be present	
	Chloroform	Not expected to be present	
	1,2 Dichloroethane	Not expected to be present	
	2,4-Dinitrotoluene	Not expected to be present	
	Nitrobenzene	Not expected to be present	
	Pentachlorophenol	Not expected to be present	
	Phenol	< 1000 mg/l	
	Trichloroethylene	Not expected to be present	

ATTACHMENT E ESTIMATED WASTEWATER DISCHARGE

Compared to CATEGORICAL DISCHARGE LIMITS for SIC Code 2869 - Organic Chemicals, Plastics, and Synthetic Fibers - Indirect Discharges (40 CFR Part 414, Subpart I)

COMPANY NAME:	WASTECH		
FACILITY ADDRESS:	701 North Hunt Street Portland, OR		
PROCESS DESCRIPTION:	Plastics Reclamation –mixed waste plastics conversion to synthetic crude oil.		
SIC CODE(S):	2869	ESTIMATED FLOW (GPD):	9000

Effluent characteristics	Categorical Discharge Limits (micrograms per liter)		Estimated Discharge (micrograms per liter)	
	Daily Maximum	Monthly Average	Daily Maximum	Monthly Average
Acenaphthene	47	19	Not expected to be present	
Anthracene	47	19	Not expected to be present	
Benzene	134	57	Not expected to be present	
Bis(2-ethylhexyl) phthalate	258	95	Not expected to be present	
Carbon Tetrachloride	380	142	Not expected to be present	
Chlorobenzene	380	142	Not expected to be present	
Chloroethane	295	110	Not expected to be present	
Chloroform	325	111	Not expected to be present	
Di-n-butyl phthalate	43	20	Not expected to be present	
1,2-Dichlorobenzene	794	196	Not expected to be present	
1,3-Dichlorobenzene	380	142	Not expected to be present	
1,4-Dichlorobenzene	380	142	Not expected to be present	
1,1-Dichloroethane	59	22	Not expected to be present	
1,2-Dichloroethane	574	180	Not expected to be present	
1,1-Dichloroethylene	60	22	Not expected to be present	
1,2-trans-Dichloroethylene	66	25	Not expected to be present	
1,2-Dichloropropane	794	196	Not expected to be present	
1,3-Dichloropropylene	794	196	Not expected to be present	
Diethyl phthalate	113	46	Not expected to be present	
Dimethyl phthalate	47	19	Not expected to be present	
4,6-Dinitro-o-cresol	277	78	Not expected to be present	
Ethylbenzene	380	142	Not expected to be present	
Fluoranthene	54	22	Not expected to be present	
Fluorene	47	19	Not expected to be present	

ATTACHMENT E ESTIMATED WASTEWATER DISCHARGE

Compared to CATEGORICAL DISCHARGE LIMITS for SIC Code 2869 - Organic Chemicals, Plastics, and Synthetic Fibers - Indirect Discharges (40 CFR Part 414, Subpart I)

Hexachlorobenzene	794	196	Not expected to be present	
Hexachlorobutadiene	380	142	Not expected to be present	
Hexachloroethane	794	196	Not expected to be present	
Methyl Chloride	295	110	Not expected to be present	
Methylene Chloride	170	36	Not expected to be present	
Naphthalene	47	19	Not expected to be present	
Nitrobenzene	6,402	2,237	Not expected to be present	
2-Nitrophenol	231	65	Not expected to be present	
4-Nitrophenol	576	162	Not expected to be present	
Phenanthrene	47	19	Not expected to be present	
Pyrene	48	20	Not expected to be present	
Tetrachloroethylene	164	52	Not expected to be present	
Toluene	74	28	Not expected to be present	
Total Cyanide	1,200	420	Not expected to be present	
Total Lead	690	320	< 690	< 320
Total Zinc	2,610	1,050	< 2610	< 1050
1,2,4-Trichlorobenzene	794	196	Not expected to be present	
1,1,1-Trichloroethane	59	22	Not expected to be present	
1,1,2-Trichloroethane	127	32	Not expected to be present	
Trichloroethylene	69	26	Not expected to be present	
Vinyl Chloride	172	97	Not expected to be present	

CITY OF PORTLAND
ENVIRONMENTAL SERVICES

Water Pollution Control Laboratory
6543 North Burlington Avenue, Portland, Oregon 97203-5452 Dean Marriott, Director

INDUSTRIAL AND COMMERCIAL ENVIRONMENTAL SURVEY

Part II

The federally mandated Pretreatment Program requires the City of Portland (the City) (40 CFR 403.8(f)(2)), to develop and implement procedures that:

(1) Identify and locate all possible Industrial and Commercial Users which might be subject to the Publicly Owned Treatment Works (POTW) Pretreatment Program requirements.

(2) Characterize the type and volume of pollutants contributed to the POTW by the Industrial and Commercial Users as identified under (1) above.

By completing the *Industrial and Commercial Environmental Survey*, Part II, you are helping the City complete its requirements.

Confidential Information

As outlined in 40 CFR 403.14 (a)-(c) and ORS 192.430, any information submitted to the City under the Pretreatment Program requirements may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission in the manner prescribed on the application form or instructions, or, in the case of other submissions, by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, the City may make the information available to the public without further notice. If a claim is asserted, the information will be treated in accordance with the procedures in 40 CFR part 2 (Public Information) and ORS 192.440(2).

Information and data provided to the City under these requirements that is effluent data shall be available to the public without restriction.

All other information, which is submitted to the State or POTW, shall be available to the public at least to the extent provided by 40 CFR 2.302 and ORS 192.440(2).

If, at any time, there is insufficient space to complete an answer, continue your response on a separate piece of paper. Indicate the section and question number next to your response.

INDUSTRIAL AND COMMERCIAL

ENVIRONMENTAL SURVEY

Part II

For Industrial Source Control Division Use Only	
Date Postmarked/Received	Date Entered
	Entered By:
Comments:	

SECTION A. GENERAL INFORMATION

Confidential Information - Indicate those sections of this questionnaire that you wish to remain confidential and your basis for requiring confidentiality. (Wastewater characteristics cannot be confidential.)

1. Waste Management of Oregon, Inc.
(Company Name)

2. Waste Management Agilyx Wastech (Wastech)
(Facility Name)

3. 701 North Hunt
(Facility Address, Street)

Portland (City) Oregon (State) 97218 (Zip Code)

4. 5903 63rd Avenue CT NW
(Mailing Address, Street/PO. Box)

Gig Harbor (City) Washington (State) 98335 (Zip Code)

5. Provide the name of the person to contact on information contained in this questionnaire:

Jeff Altman (Name) (253) 509-0375 (Phone)

Area Environmental Manager (Title) (713) 286-7541 (Fax)

SECTION B. FACILITY TYPE INFORMATION

1. List all business activities performed on-site. Attach additional sheets as needed.

Business Activity	SIC Code
The Agilyx Plastics Reclamation Unit is a proprietary system that converts mixed waste plastics (MWP) into synthetic crude oil. The future Wastech facility will consist of sixteen primary processing vessels and associated process equipment that condenses, separates, and conditions the hydrocarbon vapors generated by the PRUs to produce the crude oil product.	**2869**

2. Check all applicable manufacturing or service activities performed at this facility:

	Manufacturing or Service Activities	CFR		Manufacturing or Service Activities	CFR
[ ]	Aluminum Forming	467	[ ]	Meat Products	432
[ ]	Asbestos Manufacturing	427	[ ]	Metal Molding and Casting (Foundries)	464
[ ]	Battery Manufacturing	461	[ ]	Metal Products and Machinery	438
[ ]	Builders' Paper and Board Mills	431	[ ]	Metal Finishing	433
[ ]	Carbon Black Manufacturing	458	[ ]	Mineral Mining and Processing	436
[ ]	Cement Manufacturing	411	[ ]	Nonferrous Metals Forming/Metal Powders	471
[ ]	Centralized Waste Treatment	437	[ ]	Nonferrous Metals Manufacturing	421
[ ]	Coal Mining	434	[ ]	Oil and Gas Extraction	435
[ ]	Coil Coating (including Can making)	465	[ ]	Ore Mining and Dressing	440
[ ]	Copper Forming	468	[X]	Organic Chemicals, Plastics, & Synthetic Fibers	414
[ ]	Dairy Products Processing	405	[ ]	Paint Formulating	446
[ ]	Electrical and Electronic Components	469	[ ]	Paving and Roofing Materials (Tars and Asphalt)	443
[ ]	Electroplating	413	[ ]	Pesticide Chemicals (Formulating & Packaging)	455
[ ]	Explosives Manufacturing	457	[ ]	Petroleum Refining	419
[ ]	Feedlots	412	[ ]	Pharmaceutical Manufacturing	439
[ ]	Ferroalloy Manufacturing	424	[ ]	Phosphate Manufacturing	422
[ ]	Fertilizer Manufacturing	418	[ ]	Photographic Processing	459
[ ]	Fruits and Vegetables Processing	407	[ ]	Plastics Molding and Forming	463
[ ]	Glass Manufacturing	426	[ ]	Porcelain Enameling	466
[ ]	Grain Mills	406	[ ]	Pulp, Paper and Paperboard	430
[ ]	Gum and Wood Chemicals	454	[ ]	Rubber Processing	428
[ ]	Hospitals	460	[ ]	Seafood Processing	408
[ ]	Ink Formulating	447	[ ]	Soap and Detergent Manufacturing	417
[ ]	Inorganic Chemicals Manufacturing	415	[ ]	Steam Electric Power Generating	423
[ ]	Iron and Steel Manufacturing	420	[ ]	Sugar Processing	409
[ ]	Landfills and Incinerators		[ ]	Textile Mills	410
[ ]	Laundry, Industrial		[ ]	Timber Products Processing	429
[ ]	Laundry, Linen		[ ]	Transportation Equipment Cleaning	
[ ]	Leather Tanning and Finishing	425			

INSTRUCTIONS: SECTION C. FACILITY OPERATIONS AND WATER USE INFORMATION

1. Enter date production began or will begin at this facility: **5/1/2012 (estimated)**

2. Circle days per week of operation: Sun Mon. Tues. Wed Thurs Fri. Sat

3. Circle hours per day of operation: 8 10 12 16 24 Other (specify): _____

4. Provide the following shift information:

Shift	Shift Start Time	No. of Employees
1st	**7:00 am – 7:00 pm**	**14**
2nd	**7:00 pm – 7:00 am**	**14**
3rd		
	Total No. Employees	**28**
Domestic Use	= 25 gallons/employee	**700 gallons**

5. Is the business or proposed activity continuous throughout the year, Yes [**X**] No [ ]
or seasonal? Yes [ ] No [**X**]

Indicate periods of maximum and minimum production: **Manufacturing operations will be adjusted to optimize production during all periods.**

Maximum: _____ Minimum: _____

6. List the total days of operation or production for the last calendar year: **0** days

7. Do scheduled shutdowns occur? Yes [**X**] No [ ] If "Yes," list time period(s):

From: **December 24** To: **December 26*** From: To:
***During other times, some portions of the plant may shut down as necessary to perform routine maintenance or for unscheduled repairs.**

8. Provide the applicable water supply information requested below:

List Water Supply Source(s)	Account Number	Usage (GPD)
Water Service, (#1): **Portland Water Bureau**	**299-956-360-0**	**~ 20,000**
Water Service, (#2): **Portland Water Bureau (Fire In Wtr Svc)**	**299-377-760-0**	**Negligible**
Water Service, (#3):		
Surface Water:	**N/A**	
Well Water:	**N/A**	
Other (specify):		
	Total Daily Use	**20,000**

SECTION C. FACILITY OPERATIONS AND WATER USE INFORMATION

9. Check all that are applicable to your facility and provide the appropriate flow information.

Water Use	Flow (gpd)	Raw Water Treatment A		Discharged				
		Yes	No	Sanitary Sewer	Storm Sewer	CombinedSewer	On-Site B	Off-Site C
Domestic Use	700		no	700				
Contained in Product	none							
Process Water Discharged	9,000		no	9,000				
Air Compressor	none							
Air Pollution Control Unit	n/a							
Backwash Water	n/a							
Boiler Feed/Blowdown	n/a							
Cooling Water, Contact	none							
Cooling Water, Non-contact	10,000							
Cooling Tower/Bleed-off		yes		2,200				
Equipment Washing	100 (avg)		no	100				
Irrigation	none							
Plant Cleanup/Washing	none							
Other (specify): Chilled Water System	none							
Total (gpd)	19,800							

NOTES:

A. If raw water treatment is used, list the process(es) employed and how the treatment residuals or regenerants are disposed or discharged.

Cooling tower is pre-treated with conventional additives to prevent scaling and micro/biological activity.

B. Describe how this water is handled on-site. For example: flows to an evaporator, a drain field, etc.

Not applicable

C. Describe how this water is handled off-site. For example: it is reclaimed, recycled, etc.

Not applicable

SECTION C. FACILITY OPERATION AND WATER USE INFORMATION

10. Check type(s) of meter(s) in use at your facility. Also indicate the number in use. **Not applicable.**

Credit Meter(s): _____ Yes [ ] No [ ] Discharge Meter(s): _____ Yes [ ] No [ ]

11. If a discharge meter is employed, list the manufacturer and describe the method of its operation, if known: **Not applicable.**

Manufacturer: _____

Description: _____

SECTION D. FACILITY MATERIAL STORAGE AND PROCESS INFORMATION

1. Complete the table below for all chemicals greater than 25 gallons stored and used on-site. If you are required to provide a report to the Portland Fire Bureau or the State Fire Marshall's Office, per the Superfund Amendments and Re-authorization Act of 1986 (SARA Title III) requirements, you *may* submit a copy of this report in lieu of completing this table. Attach additional sheets as needed.

Chemical Name	Amount Stored	Storage [Check as appropriate] Inside	Outside	SARA Title III? (Y/N)
Acetylene	300 ft3	√		N
Activated Carbon, Powdered	5000 lbs	√		N
Degreaser	10 gallons	√		N
Ethyl Alcohol, Denatured	55 gallons	√		N
Ferric Sulfate, 25%	220 gallons	√		N
Hydochloric Acid, 37%	55 gallons	√		N
LP-Gas	20 lb		√	N
Nitrogen, Compressed	6200 ft3	√		N
Parts Cleaning Solution	25 gallons	√		N
Polyelectolyte	55 gallons	√		N
Sulfuric Acid, 50%	5 gallons	√		N
Sodium Hydroxide, 25%	10,000 gallons		√	Y

SECTION D. FACILITY MATERIAL STORAGE AND PROCESS INFORMATION

2. Do you have floor drains in manufacturing or storage areas? Yes [ ] No [X]

3. List the raw materials utilized or stored on site. Indicate quantity using appropriate units:

Raw Materials	Stored [Check as appropriate] inside	outside	Daily Average (units)
Mixed Waste Plastic Feedstock	√		80,000 pounds

4. List each product manufactured at this facility, indicating the appropriate production units:

Products	Units/Time
Synthetic Crude Oil	~ 9,500 gallons per day
Solid Carbon Material	~ 8,000 lbs per day

SECTION E. FACILITY PROCESS WASTEWATER INFORMATION

1. For each product listed in Section D, indicate the general characteristics of the wastewater generated during manufacturing process:

Wastewater Types		Wastewater Types, *Organic wastes*	
[ ]	Acids and Acidic Wastes	[ ]	Alcohols
[ ]	Alkali and Caustic Wastes	[ ]	Aldehydes, Ketones
[ ]	Dyes, Coloring Agents	[ ]	Benzene and Benzene Derivatives
[ ]	Electroplating Wastes	[ ]	Ethers
[ ]	Fats, Grease (animal/vegetable)	[ ]	Flammable or explosive wastes
[ ]	Glues	[ ]	Halogenated Organic Compounds
[ ]	Hot Wastes (> 140° F)	[ ]	Organic Acids
[ ]	Inks, Printing Wastes	[ ]	Pesticides, Herbicides, Rodenticides
[ ]	Metal Cleaning and Preparation Wastes	[ ]	Phenol-containing Wastes
[ ]	Metal Finishing Wastes	[ ]	Resins, Monomers
[ ]	Paint, Pigment Wastes (Latex)	[ ]	Solvents, Thinners
[ ]	Paint, Pigment Wastes (Solvent-based)	[X]	Other Organic Chemicals:
[X]	Petroleum-based Oily Wastes **trace**		**Phenol and other hydrocarbons**_____
[X]	pH level: ≤ 2, unknown	[ ]	_____
[ ]	Photographic Wastes		Other Wastes:
[ ]	Pickling Wastes		_____
[ ]	Radioactive Wastes		_____
[ ]	Soaps, Surfactants, Detergents		_____
[ ]	Soluble Oils, Lubricants	[ ]	High Strength Waste: BOD_5, COD, TSS
[ ]	Waxes	[ ]	Toxics: Yes [ ] No [X] Don't Know [ ]
[ ]	Solid or viscous material: Yes [ ] No [X] Don't Know [ ]		

2. Is the facility's wastewater pretreated? [X] Yes [ ] **No Pretreatment System.**

If yes, check all that apply:

[ ] Air Flotation	[ ] Carbon Absorption	[X] Chemical Precipitation
[ ] Chlorination	[ ] Evaporation	[X] Filtration
[ ] Flow Equalization	[ ] Grease Trap	[ ] Grit Removal
[ ] Ion Exchange	[X] Neutralization, pH Control	[ ] Oil/Water Separation
[ ] Reverse Osmosis	[ ] Screening/Grinder	[ ] Sedimentation
[ ] Solvent Separation		

[ ] Biological Treatment, type: _____

[ ] Other Chemical Treatment, type: _____

[ ] Rainwater Diversion or Storage: _____

[ ] Other, type:

Design Capacity of System: **~ 9000 gpd**

SECTION F. FACILITY WASTEWATER DISCHARGE INFORMATION

1. Circle the months of the year when process wastewater discharges do occur or are planned to occur:

   (Jan) (Feb) (Mar) (Apr) (May) (Jun) (Jul) (Aug) (Sept) (Oct) (Nov) (Dec)

2. Are or will the process wastewater discharges be continuous? **[X]** or batch? [ ]

3. If batch discharges occur or will occur, indicate the following:

   a. Percent of discharge as batch: **3%**_____

   b. Percent discharge as continuous: **97%**_____

   c. Number of batch discharges **Periodic equipment cleaning** at _____
   (# per week) (hours per discharge)

   c. Approximate volume of a batch discharge: _____ gallons.

4. Do you discharge any wastes to the public sewers, which, if disposed by other methods, would be regulated as a Resource Conservation and Recovery Act (RCRA) listed, or characteristic hazardous waste?

   [ ] Yes **[X]** No [ ] Don't Know

   If Yes, please describe the wastes discharged to the sanitary sewer:

   Type of Discharge: [ ] Continuous [ ] Batch [ ] Other **Not applicable**

Constituent Name	Mass in Wastestream (this month)	Concentration in Wastestream (this month)	Mass in Wastestream (next 12 months)
Not applicable			

5. List each by-product or waste, identify process source of by-product or waste, indicating the appropriate production units, and check whether the material is reused, sent off-site for disposal, or recycled:

By-products/Wastes	**Process Source**	**Daily Average** (units)	**Reused**	**Disposal**	**Recycled**
Precipitant	**Wastewater Treatment**	**1000 lbs**		√	

6. Circle the applicable disposal method and provide the required information.
   Waste hauler for this material will be determined prior to facility start-up.

   For off-site reuse: (For off-site disposal:) For off-site recycling:

   _____ _____
   User's Name or Hauler's Name Phone

   _____ _____ _____ _____
   Mailing Address, Street/PO Box City State Zip Code

   DEQ permit number: _____

SECTION G. OTHER WASTES INFORMATION

1. Check all that apply:

   a). Equipment or vehicles used on-site. Indicate the number in use:

   Fork lifts [**X**] **# 3** Cranes [**X**] **# 1** Trucks [ ] #_____

   Tractors [ ] #_____ Other (specify) [ ]

   b). Cleaning of equipment or vehicles:

   On-site [**X**] Off-site [ ] Cleaned by facility staff [ ] Mobile cleaning service [ ]

   c). Washwater discharged to: Sanitary sewer [ ] Storm sewer [ ] 100% recycled [ ]

   taken off-site [ ] Other (specify) [**X**] **Wastewater Treatment Unit**

2. Check all that apply:

   a). Equipment or vehicles serviced on-site. Indicate the number in use:

   Fork lifts [**X**] **# 3** Cranes [X] **# 1** Trucks [ ] #_____

   Tractors [ ] #_____ Other (specify) [ ]

   b). Mobile services used? Yes [ ] No [**X**] Services done: Inside [**X**] Outside [ ]

   c). Describe your disposal of used oil, steam cleaning wastes, anti-freeze, or other wastes:

   Used Oil and Antifreeze from vehicles is recycled.

3. Do you have an ongoing groundwater remediation on site? Yes [ ] No [**X**]

   Remediated groundwater is discharged to the: **Not applicable.**

   Sanitary sewer [ ] Storm sewer [ ] Other (specify) [ ]

SECTION G. OTHER WASTES INFORMATION

4. Provide the applicable information requested below:

Stormwater Sources	Area (sq. ft.)	Discharge to: Combined Sewer	Storm Sewer	Sanitary Sewer	On-site Disposal	Average (daily gpd)
Total facility area	**207, 508 (=6.21 ac)**		**X**			varies
Roof area	**34,000**		**x**			
Parking lots (paved/concrete)	**134,600**		**x**			
Other impervious areas	NA					

5. List all Environmental control permits held for or issued to this facility:

Type of Permit	Permit Number	Date Issued	Date Expires
NPDES Permit(s)	**File No. 105744 (1200-COLS Stormwater Permit)**	**9/1/06**	**8/31/11**
Air Discharge Permit	**26-0710**	**Pending issuance**	
RCRA/EPA Permit			
Other (specify)			

6. Does this facility have a current, written spill contingency plan? Yes [ ] No [**X**]
An SPCC Plan with a contingency plan will be prepared/implemented prior to facility start-up.

7. Are expansion plans scheduled within the next three years? Yes [ ] No [**X**]

If Yes, check the appropriate box(es) for your facility's expansion plans: **Not applicable.**

Add New Products [ ] Same Products, additional capacity [ ] Expand Current Facility [ ]

New Facility [ ] Relocate: [ ] within Portland [ ] outside of Portland [ ]

INSTRUCTIONS: RESPONSIBLE CORPORATE OFFICIAL CERTIFICATION

This form shall be signed by a Responsible Corporate Officer, a general partner or by a duly authorized representative.

40 CFR 403.12(l):

Signatory requirements for industrial user reports. The reports required by paragraphs (b), (d), and (e) of this section shall include the certification statement as set forth in 403.6(a)(2)(ii), and shall be signed as follows:

(1) By a responsible corporate officer, if the Industrial User submitting the reports required by paragraphs (b), (d) and (e) of this section is a corporation. For the purpose of this paragraph, a responsible corporate officer means (I) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operation facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

(2) By a general partner or proprietor if the Industrial User submitting the reports required by paragraphs (b), (d) and (e) of this section is a partnership or sole proprietorship respectively.

(3) By a duly authorized representative of the individual designated in paragraph (l)(1) or (l)(2) of this section if:

(3) (I) The authorization is made in writing by the individual described in paragraph (l)(1) or (l)(2);

(3) (ii) The authorization specifies either an individual or a position having responsibility for the overall operation of the facility from which the Industrial Discharge originates, such as the position of plant manager, operator of a well, or well field superintendent, or a position of equivalent responsibility, or having overall responsibility for environmental matters for the company; and

(3) (iii) the written authorization is submitted to the Control Authority.

(4) If an authorization under paragraph (l)(3) of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, or overall responsibility for environmental matters for the company, a new authorization satisfying the requirements of paragraph (l)(3) of this section must be submitted to the Control Authority prior to or together with any reports to be signed by an authorized representative.

Photocopy the completed survey form for your records and return the original survey to:

Industrial Source Control Division
City of Portland Environmental Services
Water Pollution Control Laboratory
6543 N. Burlington Avenue
Portland, OR 97203-5452

RESPONSIBLE CORPORATE OFFICIAL CERTIFICATION

You have completed the *Industrial and Commercial Environmental Survey, Part II.* **Sign and return this questionnaire to the Industrial Source Control Division.**

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 ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, 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. [40 CFR 403.6(a)(2)(ii)]

This certification is to be signed only by the Responsible Corporate Official as per 40 CFR 403.12(l)(1) {e.g. the president, treasurer, vice-president, general partner, or sole proprietor of the facility}.

Responsible Corporate Official:

Adam Winston _____ Vice President
(Print name here) (Title)

_____ _____
(Signature) (Phone)

Date: _____