



2008 Annual Progress Report
141-RT-2494
(January 24, 2008 – January 24, 2009)

Approval Matrix

	Name	Signature	Date
Technical Authority	Karen Risto	<i>Kristo</i>	Mar 30/09
Reviewer	Ken Campbell	<i>K Campbell</i>	Mar 30/09
Documentation Control	Barbara Shipman	<i>BS</i>	Apr 21/09

Revision Information

Revision	CR/CN #
B	

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Plasco Energy Group Inc.
1000 Innovation Drive, Suite 400
Ottawa, Ontario, K2K 3E7
Telephone: 613 591-9438
Fax: 613 591-9441

March 30, 2009

Agatha Garcia-Wright
Director (Acting)
Ministry of the Environment – Environmental Assessment
Environmental Assessment and Approvals Branch
12A Flr
2 St. Clair Avenue West
Toronto, Ontario
M4V 1L5

Dear Ms. Garcia-Wright,

Please find enclosed the complete and revised Annual Progress Report for the Plasco Trail Road Demonstration Facility, as per Condition 65 of Provisional Certificate of Approval (Waste) #3166-6TYMDZ.

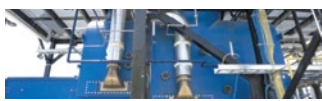
I trust you will find everything is satisfactory. Should you have any questions or comments, please do not hesitate to contact me at 613-591-9438 ext. 1342.

Sincerely,

A handwritten signature in purple ink, appearing to read "K. Risto".

Karen Risto, P.Eng.
Environmental Engineer

Cc: Mr. Steve Burns, District Manager, MOE – Ottawa District
Mr. Rich Urbanski, SENES Consultants Limited.



PLASCO ENERGY GROUP DEMONSTRATION PROJECT ANNUAL REPORT

JANUARY 24TH 2008 TO JANUARY 24TH 2009

PURPOSE OF THE PLASCO CONVERSION PROCESS DEMONSTRATION PROJECT

As Canada's (and the World's) population continues to grow, demanding more energy, resources, and space, the need for sustainable solutions is mandatory. Mass consumption is leading to increasing amounts of waste and the ways in which we dispose of our leftovers is outdated and inefficient. Burning or burying waste causes detrimental effects to our environment, contributes to global warming, and generates little or no value from waste.

Plasco Energy Group, a private Canadian company based in Ottawa, Ontario has developed a waste conversion process that converts waste into saleable products including electricity, construction aggregate, salt and sulphur. Working under the unique business model of financing, building, owning, and operating all facilities, Plasco offers municipalities and communities a low risk solution and new option to their waste management planning.

The Plasco Conversion System is the result of thirty years of research and development. Decades of testing and design have been invested to develop breakthrough performance both economically and environmentally. Plasco's patented process technology allows it to achieve the highest energy yield of any waste conversion technology presently being used at a commercial-scale.

Private investment in Plasco over the last three years has totalled \$90 million. The company received the largest single funding from Sustainable Technologies Development Canada (\$9.5 million) and also received a \$4 million dollar loan from the Ontario Ministry of Research and Innovation.

The Plasco Conversion System will result in a 99.8% diversion from landfill. There are no air emissions during the conversion of the waste to synthetic fuel gas. The synthetic fuel gas (syngas) is then used to run internal combustion engines to produce electricity, with recovered heat used to operate combined cycle generation.

Facilities will be designed to reflect the community and will fit seamlessly into the surroundings.

Douglas Cardinal, a renowned Canadian architect, has been working with Plasco to model facilities that communities will be proud to call their own. Managing waste no longer has to be an eye sore or a serious cause of odours .



Artist's Rendering

Plasco facilities will be designed and constructed keeping each community in mind while minimizing truck traffic, guaranteeing ultra low emissions, and generating green power. Plasco will also employ local companies and people to help build, maintain, and operate the facility - encouraging sustainable economic and technological growth while protecting the environment.

There is value in waste and the Plasco Conversion System can recover its worth, delivering green energy to the very neighborhoods who generated the garbage. This creates a sustainable loop in the community and changes the way we look at and deal with waste.

EXECUTIVE SUMMARY

Plasco operates a municipal waste conversion process evaluation plant at the City of Ottawa's Closed Nepean Landfill Site located in the Township of Nepean, Ontario. The facility has been granted a Certificate of Approval for Air No. 6925-6REN9E, A Provisional Certificate of Approval for Waste No. 3166-6TYMDZ and related amendments.

Key observations noted and conclusions resulting from the Monthly Engineer's Report visits are summarized herein.

The production of PlascoSyngas at the facility has not been continuous and has been interrupted by periods of cold testing, plant maintenance and upgrades. During this first annual period, the processed quantities remain well below the maximum approved limits. Runtime for Plasco Trail Road for the first year of operation was 890 hours.

The majority of the processed waste is standard curbside municipal solid waste along with small amounts of high carbon feed.

The process emissions have been continuously monitored. CEMS data has been verified to be accurate and representative of site conditions and further validation test are planned on a routine basis.

Other environmental and operational updates are discussed in this document.

SENES Consultants Limited was retained by Plasco Trail Road Inc. (Plasco) to assist in preparing this Annual Progress Report for the first annual operational period (January 24, 2008 – January 24, 2009) as per Condition 65 of Provisional Certificate of Approval for Waste No. 3166-6TYMDZ December 1, 2006.

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Plasco Energy Group Demonstration Project Annual Review

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1.0 INTRODUCTION

1.1 FACILITY DESCRIPTION

Plasco Energy Group's Ottawa Trail Road Facility is the only operating MSW conversion facility in the world that converts municipal solid waste into a rich and stable syngas that can run reciprocating gas engines to generate electricity. There is no other existing MSW conversion facility that operates near the same efficiencies as Trail Road.

Plasco entered into a partnership with the City of Ottawa, in April 2006 for the construction of a commercial-scale evaluation and demonstration municipal solid waste conversion facility next to the City's Trail Road Landfill site.

The demonstration facility has a very small footprint (three acres) and was built on existing landfill space. The facility is designed to convert 100 tpd and is permitted to convert 85 tonnes of solid waste per day using Plasco's conversion technology. At that rate, a



net amount of 4 MW of electricity—enough to power 3,600 homes—will be fed into the Ontario energy grid. There are no air emissions from the processing of waste into synthetic gas and only minimal (well below the Ontario regulated limits) air emissions from the power generation process.

Throughout the first year of operation, the facility at Trail Road has processed over 1500 tonnes of waste destined for the Trail Road landfill and operated for 890 hours.

Trail Road History

Ground Breaking September 2006

Construction June 2007

Power Sales from Surrogate October 2007

MSW Received January 2008

Power from MSW February 2008

2000 tonnes of MSW Processed March 2009

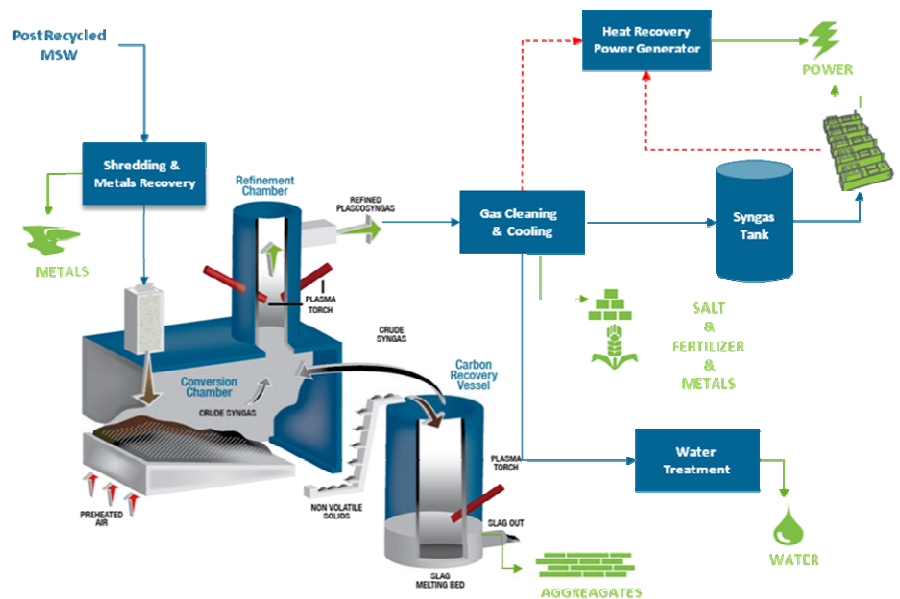
1.2 PROCESS DESCRIPTION

The Plasco waste conversion process begins with any materials with high reclamation value being removed from the waste stream and collected for recycling. Once these high value products are removed, the MSW is shredded and remaining ferrous metals are removed and sent for recycling.

The shredded MSW stream enters the conversion chamber where the waste is converted into a crude syngas using recycled heat. The crude syngas that is produced flows to the refinement chamber where plasma torches are used to refine the gas into a cleaner syngas, known as PlascoSyngas.

Now refined, the PlascoSyngas is sent through the Gas Quality Control Suite to remove heavy metals found in the waste stream, remove particulate matter, and neutralize acid gases. The result is a clean, energetic PlascoSyngas created from the conversion of waste with no air emissions.

PlascoSyngas is then used to fuel internal combustion engines that efficiently generate electricity. In commercial facilities waste heat recovered from the engines will be combined with waste heat recovered from cooling the PlascoSyngas in a Heat Recovery Steam Generation (HRSG) unit to produce steam. The steam can either be used to generate additional electricity using a turbine (combined cycle generation), or it can be used for industrial processes or district heating (cogeneration).



The solid residue from the conversion chamber is sent to a separate high temperature Carbon Recovery Vessel (CRV) equipped with a plasma torch where the solids are melted. Plasma heat is used to stabilize the solids and convert any remaining volatile compounds and fixed carbon into crude syngas. This additional crude syngas is fed back into the conversion chamber. Any remaining solids are then melted into a liquid slag and cooled into small slag pellets. The slag pellets are an inert vitrified residue. Leachability tests have been conducted on slag emerging from the process and have confirmed that the slag does not leach and is non-toxic.

The entire process is continuously monitored by a proprietary control system that ensures sufficient PlascoSyngas stability to fuel internal combustion engines regardless of the variations in the energy content of the MSW.

2.0 STATUS OF COMPLIANCE

Plasco is committed to operating within the environmental regulation framework under which it has received the licenses to operate.

Specific regulations allow Plasco to operate the Trail Road Demonstration Project on a conditional basis:

- Plasco Regulation # 253/06 is the regulation that provides a defined mechanism for a demonstration project to proceed in a timely manner by holding off a full-scale EA until the demonstration is complete
- Plasco Regulation # 254/06 is the more operational specific regulation and stipulates the conditions and limits under which the Plasco demonstration facility can operate within the context of Regulation # 253/06.

The Ontario Ministry of the Environment has granted the following major operating approvals which carry many specific conditions with which Plasco must comply in order to be allowed to operate the facility.

- C of A Waste # 3166-6TYMDZ issued December 1, 2006.
- C of A Air # 6925-6REN9E issued December 1, 2006.

Amendments and further notices that have been approved by the MOE are as follows:

Certificate of Approval Waste

- Notice No. 1 issued September 5, 2007.
- Notice No. 2 issued January 28, 2008.
- Notice No. 3 issued July 31, 2008.
- Notice No. 4 issued December 9, 2008.

Certificate of Approval Air

- Notice No. 2 issued December 5, 2007.
- One day approval issued October 15th, 2008.
- Notice No. 4 issued October 24, 2008.
- Program approval issued December 1st, 2008
- Notice No. 5 issued December 2, 2008.

This section 2.0 is a summarization of all the conditions within Plasco's major regulatory licenses. A brief description of the conditions and the status of Plasco's compliance with the conditions is provided. The compliance sections that follow are:

Section 2.1 – Plasco Regulation 254/06

Section 2.2 – C of A Waste # 3166-6TYMDZ

Section 2.3 – C of A Air # 6925-6REN9E

It should be noted that a number of conditions that cover the Nepean site had been issued originally to the City of Ottawa and within the lease agreement and the change of use provisions that Plasco has negotiated with the City. Plasco must comply with the applicable conditions. The specific certificates are:

- Amended C of A M&P Sewage 9022-6SSRGS August 28, 2006
- Amended C of A M&P Sewage 8807-6VZMMT December 4, 2006
- Amended C of A M&P Sewage 6974-7LHUSA November 26, 2008

Other documents originally applicable to the City within its obligations with the MOE are

- Amendment of A461301 re: change of use of Reference Site to Plasco Gasification Process - Application Reference 1611-6UGR93
- C of A Waste Provisional Original-to operate a Waste Site A4613012
- Amendment Notice clauses added A4613013
- Amendment Notice clauses added A4613014
- Amendment Notice clauses added A4613015
- C of A Municipal Sewage mainly run off and monitoring 3-0989-92-0066
- C of A Wastewater - #unknown Closure Plan Sec 53 Groundwater Treatment System - OWRA 0660-6EJL7Z

As noted Plasco must maintain compliance with all the site applicable conditions granted to the City by the MOE.

2.1 - STATUS OF COMPLIANCE WITH ONTARIO REGULATION 254/06

The following section will demonstrate Plasco Trail Road Inc.'s compliance with the Ontario Regulations 254/06. Table 2.1 outlines conditions as specified in the Regulation 254/06 and the status of compliance for Plasco Trail Road Inc.

Table 2.1 - Status of Compliance for the Plasco Demonstration Project with O.Reg.254/06

Condition	Condition Titre	Condition Summary	Status of Activity	Status of Compliance	Comments
3	Traffic and Noise Study	Plasco Trail Road Inc. Shall, before municipal waste is first received as part of the Plasco demonstration project, prepare and give to the Director of the Ministry's Environmental Assessment and Approvals Branch and to the District Manager of the Ministry's Ottawa District Office a traffic and noise study that describes the anticipated impacts of the demonstration project on traffic and noise levels in the area surrounding the Nepean Landfill and sets out measures to minimize any undesirable impacts.	The traffic and noise studies that provide the information as required for the Nepean Landfill, were submitted to the Director of the Ministry's Assessment and Approvals Branch on January 12, 2007	Compliant	.
4	Spill Prevention and Contingency Plans	(1) Plasco Trail Road Inc. Shall develop and implement plans under section 91.1 of the Act in connection with the Plasco demonstration project.) (2) Plasco Trail Road Inc. Shall give the plans referred to in subsection (1) to the Director of the Ministry's Environmental Assessment and Approvals Branch and to the District Manager of the Ministry's Ottawa District Office before municipal waste is first received as part of the Plasco demonstration project.	(1) Plasco Trail Road Inc. Developed and implemented spill prevention and spill contingency plans under section 91.1 of the Act on March 12, 2007. (2) Plasco Trail Road Inc. Submitted plans referred to in subsection (1) to the Director of the Ministry's Environmental Assessment and Approvals Branch and to the District Manager of the Ministry's Ottawa District Office on March 12, 2007.	Compliant	Spill and Contingency Plans were updated and submitted to the Ministry on December 5, 2008.
5	Notice of Date Waste First Received	Plasco Trail Road Inc. Shall give the Director of the Ministry's Environmental Assessment and Approvals Branch and the District Manager of the Ministry's Ottawa District Office notice in writing of the date that municipal waste is first received as part of the Plasco demonstration project not later than 15 days after that date.	Notices were given to the MOE no later than 15 days after first municipal waste was received.	Compliant	Waste first received January 24, 2008 and MOE was onsite for inspection on January 25, 2008.
6	Final Date for Processing Waste	Plasco Trail Road Inc. Shall ensure that no waste is received or processed as part of the Plasco demonstration project after the second anniversary of the date that municipal waste is first received as part of the demonstration project.	Plasco Trail Road Inc .will not receive or process waste as part of the Plasco Demonstration Project after the second anniversary of the date that municipal waste is first received as part of the Demonstration Project.	n/a	

Condition	Condition Titre	Condition Summary	Status of Activity	Status of Compliance	Comments
7	Types of Waste	Plasco Trail Road Inc. Shall ensure that no waste is received or processed as part of the Plasco demonstration project other than (a) municipal waste that is collected by, or on behalf of, the City of Ottawa and that would otherwise have been disposed of at the Trail Road Landfill; (b) municipal waste that would otherwise have been disposed of within the boundaries of the City of Ottawa, other than at the Trail Road Landfill; and (c) municipal waste that has been processed by Les Sols Calco Soils Inc. (revoked and replaced with Lafcorp Inc.) Under provisional certificate of approval number 4130-5ZKH3W) issued under section 39 of the Act and that is not being recycled.	Plasco Trail Road Inc. receives only the types of waste as established in condition 7 of this regulation.	Compliant	No waste has been received as yet from Lafcorp Inc. (See Appendix I for a summary of waste shipments to the Site.)
8	Amount of Waste	Plasco Trail Road Inc. Shall ensure that: (a) not more than 85 tonnes of municipal waste are processed on any day as part of the Plasco demonstration project; and (b) not more than 10 tonnes of waste described in clauses 7 (b) and (c) are processed on any day as part of the Plasco demonstration project.	Plasco Trail Road Inc. confirms that condition 8, regarding the amount of waste processed on Site is in compliance.	Compliant	See appendix I of this report for waste summary charts
9	Times for receiving or Transferring Waste	Plasco Trail Road Inc. Shall ensure that waste is received at or transferred from the Nepean Landfill as part of the Plasco demonstration project only during the following times: 1. On Mondays, Tuesdays, Thursdays and Fridays from 7:00 a.m. until 6:00 p.m. 2. On Wednesdays from 7:00 a.m. until 9:00 p.m. from April 15 to December 15. 3. On Wednesdays from 7:00 a.m. until 6:00 p.m. from December 16 to April 14. 4. On Saturdays from 8:00 a.m. until 4:00 p.m. O. Reg. 254/06, s. 9.	Plasco Trail Road Inc. confirms that waste is received at or transferred from the Nepean Landfill as part of the Plasco Demonstration Project only during the times required.	Compliant	
10	Continuous Monitoring	Plasco Trail Road Inc. shall ensure that a continuous emission monitoring system is installed as part of the Plasco demonstration project and that all discharges from the demonstration project into the air are continuously monitored to determine the concentrations of NOx (1), HCl (2), SO2 (3) and Organic Matter (4).	Plasco Trail Road Inc. Installed a continuous emission monitoring system to continuously monitor and determine the concentration for NOx (1), HCl (2), SO2 (3), and Organic Matter (4) on April 23, 2007.	Compliant	See appendix IV, table 3.4 for weekly CEMS Data
11	Source Testing	Plasco Trail Road Inc. Shall ensure that source tests are conducted on discharges from the Plasco demonstration project into the air to determine the concentrations of Particulate Matter (1), Mercury (2), Cadmium (3), Lead (4) and Dioxins and Furans (5)	Due to on going changes in operations at the Plasco Trail Road Inc demonstration plant, Plasco was unable to perform Source testing within the first year of commissioning of the project. Within the year 2009, Plasco is scheduled to perform Source sampling for the prescribed substances (1 to 5 as listed) as per letter sent to MOE Ottawa District (Feb 17/09) and MOE response (Feb 19, 2009).	n/a	Test has not been performed, but the schedule has been agreed upon by the Ministry.

Condition	Condition Titre	Condition Summary	Status of Activity	Status of Compliance	Comments
12	Maximum Emission Limits	Plasco Trail Road Inc. Shall ensure that the concentration of a contaminant listed in Schedule 1 in a discharge from the Plasco demonstration project into the air does not exceed the maximum limit set out for that contaminant in that Schedule.	Plasco Trail Road Inc. Operates so that the concentration of a contaminant listed in Schedule 1 in a discharge from the Plasco Demonstration Project into the air does not exceed the maximum limit set out for that contaminant in that Schedule.	Non-Compliant	Exceeded the maximum limit for organic matter (TOC) at flare on January 7 and 11, 2009
13	Cessation of Discharges	Plasco Trail Road Inc. Shall ensure that the steps outlined in condition 13 (subsection B) will be followed if any such incident as listed in condition 13 (subsection A) from 1 to 7 occur.	Plasco Trail Road Inc. Confirms that all steps listed under (1) are followed when a discharge occurs. A Cessation of Discharge incident occurred on July 15, 2008 for the SO ₂ at the flare source. The incident was reported to the MOE. Corrective actions were undertaken immediately following the incident, including the addition of preheating/maintenance bypass around the carbon bed (approval granted as per Amendment to Certificate of Approval (Air) No. 6925-6REN9E Notice No. 4.). A letter submitted to the MOE, along with a report on the incident including remediation methods was submitted on August 12, 2008 Unrelated to this occurrence, a scheduled maintenance shutdown began July 16, 2008.	Compliant	

Condition	Condition Titre	Condition Summary	Status of Activity	Status of Compliance	Comments
14	Public Meetings	(1) Plasco Trail Road Inc. Shall give notice of and hold public meetings to discuss the Plasco demonstration project, including: (a) a meeting held before waste is first received on site, (b) a meeting held between 3 and 6 months after waste is first received on site, (c) a meeting held between 9 and 12 months after waste is first received on site and (d) a meeting held in the month following the day that waste is last received.	<p>Plasco Trail Road Inc gave notice of public meetings through the two main local newspapers, Ottawa Sun and Ottawa Citizen. Notice was also placed on www.zerowasteottawa.com.</p> <p>The first public meeting was held on April 11th, 2007 (before waste was received on site) in Barrhaven. Notice was given to the MOE on March 24th, 2007. A legal notice was filed in both the Sun and Citizen on March 24th 2007. The week of the meeting, advertisements were placed in the Sun, Citizen and Metro on April 10th, 2007. Notice was also placed on zerowasteottawa.com.</p> <p>The second meeting held on July 24th, 2008 (3 to 6 months after receipt of waste) in Barrhaven. Notice was given to the MOE on July 9th, 2008. Advertisements were placed in the Citizen on Friday July 11th and in the Sun July 12th, and then 2 more ads were placed the week of the meeting on Monday July 21st in both papers. Notice was also placed on zerowasteottawa.com.</p> <p>The third meeting was held on December 6th (6 to 9 months after receipt of waste). Notice was given to the MOE on November 17th, 2008. Advertisements were placed in the Citizen and Sun on Tuesday November 18th and then 2 more ads were placed the week of the meeting on Wednesday December 3rd in both papers. Notice was also placed on zerowasteottawa.com.</p>	Compliant	
15	Public Comments and Complaints	(1) Plasco Trail Road Inc. Shall maintain a system for receiving complaints and comments from the public about the demonstration project, including a system for receiving those complaints and comments during and outside of normal business hours. (2) Plasco Trail Road Inc. shall make records of the complaints and comments received from the public about the Plasco demonstration project, including records of actions taken in response to the complaints and comments and records of the results of those actions.	Plasco Trail Road Inc. Confirms that a system is maintained for receiving complains from the public for the prescribed times and that records are made for any complaints or comments received from the public about the facility or the project. At this time, no complaints have been made.	Compliant	

Condition	Condition Titre	Condition Summary	Status of Activity	Status of Compliance	Comments
16	Public Information	Plasco Trail Road Inc. Shall, through the use of a website, provide information to the public including: (a) information on activities that are part of the undertaking, including monitoring activities; (b) information on all documents related to the demonstration project that it is required to give to the Ministry or under any certificates of approval or provisional certificates of approval that apply to the demonstration project and c) information on the system referred to in section 15 for receiving complaints and comments	Plasco Trail Road Inc. Provides information about the demonstration project through the website www.zerowasteottawa.com and confirms that the required information is accessible on site and information is given for how to access documents or activities that are occurring with the project such as monitoring activities.	Compliant	
17	Monthly Engineer's Reports	Plasco Trail Road Inc. Shall ensure that once a month, an Professional Engineer, who is not an employee of Plasco Trail Road Inc. a) inspects all aspects of the Nepean Landfill that Plasco Trail Road Inc. utilizes, b) reviews all documents that are required by this regulation and all CofAs for Plasco Trail Road Inc. and c) provides a report, signed by a Professional Engineer, that includes results of inspection and revisions of documents, and Confirms that Plasco has complied with this Regulation and with all CofAs.	A Professional Engineer, Project Manager, Decommissioning Consulting Services (DCS) Ottawa, once every calendar month, performs the duties as required in this regulation under subsections 1(a), (b) and (c) at Plasco Trail Road Inc. The following monthly reports have been submitted: a) March 6, 2008 for the reporting period of February 2008. b) April 8, 2008 for the reporting period of March 2008. c) May 5, 2008for the reporting period of April, 2008. d) June 4, 2008 for reporting period of May, 2008 e) July 4, 2008 for reporting period of June, 2008. f) August 12, 2008 for the reporting period of July, 2008. g) September 10, 2008 for the reporting period of August, 2008. h) October 10, 2008 for the reporting period of September, 2008. i) November 6, 2008 for the reporting period of October, 2008. j) December 6, 2008 for the reporting period of November, 2008. k) January 12, 2009 for the reporting period of December, 2008. l) February 10, 2009 for the reporting period of January, 2009.	Compliant	

Condition	Condition Titre	Condition Summary	Status of Activity	Status of Compliance	Comments
18	Immediate Report of Non-Compliance	Plasco Trail Road Inc. Shall immediately give the District Manager of the Ministry's Ottawa District Office notice in writing if, under subsection 17 (3) or otherwise, it becomes aware of any circumstance indicating that it may not have substantially complied with this Regulation or with any certificates of approval or provisional certificates of approval that apply to the Plasco demonstration project.	If Plasco Trail Road Inc. Becomes aware of any circumstance indicating that it may not have complied with this Regulation or with any applicable certificates of approval for the Plasco Demonstration Project, Plasco Trail Road Inc. agrees to notify the Ministry as required. No notifications have been submitted at this time.	Compliant	
19	Compliance Reports	(1) Plasco Trail Road Inc. Shall, for each six-month period following the date that municipal waste is first received, prepare a report describing how it complied during that period with this Regulation and with all CofAs provisional certificates of approval that apply to the demonstration project. (3) Plasco Trail Road Inc. Shall, for the period that begins on the day after the end of the last six-month period to which subsection (1) applies and that ends on the day municipal waste is last processed as part of the Plasco demonstration project, prepare a report describing how it complied during that period. (4) Plasco Trail Road Inc. Shall give each report prepared under subsection (1) or (3) to the Director of the Ministry's Environmental Assessment and Approvals Branch and to the District Manager of the Ottawa's District Office not later than 2 months for reporting the period.	This report describes how the Plasco Trail Road Inc. Demonstration Project complied during the first year of operation with this Regulation and with any applicable Certificates that apply to the Demonstration Project. (1) A report that represents the six-month period following the date that municipal waste was first received as part of the Plasco Demonstration Project, and was submitted November 3, 2008.	Non-Compliant	The semi-annual report was delayed and was submitted November 3, 2008.
20	Final Assessment Report	Not later than three months after municipal waste is last processed as part of the Plasco demonstration project, Plasco Trail Road Inc. Shall prepare and give to the Director of the Ministry's Environmental Assessment and Approvals Branch and to the District Manager of the Ministry's Ottawa District Office a report that, (a) summarizes the operation of the demonstration project; (b) summarizes how Plasco Trail Road Inc. Complied during the demonstration project with this Regulation and all CofAs; and (c) Evaluates the ability of the demonstration project to process municipal waste and generate electricity using municipal waste as a fuel source.	This section will be completed within the last year of operation.	n/a	

Condition	Condition Titre	Condition Summary	Status of Activity	Status of Compliance	Comments
21	Documents to be kept	(1) During the period that the Plasco demonstration project is carried out, Plasco Trail Road Inc. Shall keep, at the Nepean Landfill or at another location approved by the Director of the Ministry's Environmental Assessment and Approvals Branch, copies of all documents related to the demonstration project that it is required to give to the Director of the Ministry's Environmental Assessment and Approvals Branch or to the District Manager of the Ministry's Ottawa District Office under this Regulation or under any certificates of approval or provisional certificates of approval that apply to the demonstration project. (2) Plasco Trail Road Inc. shall make the copies referred to in subsection (1) available on request to employees of the Ministry.	Plasco Trail Road Inc. Maintains copies of all documents related to the Demonstration Project, at the Closed Nepean Land fill Site located in the City of Nepean, Part of Lot 9, Concession 4, Rideau Front.	Compliant	
22	Determination of Contaminant Concentrations	For the purpose of this Regulation, the concentration of a contaminant listed in Schedule 1 or 2 shall be determined in accordance with the "Comments" column of that Schedule	Plasco Trail Road Inc. confirms that all concentrations of contaminants listed in the O.Reg.254/06 schedules 1 and 2 are determined in accordance with the corresponding "Comments" column in the schedule.	Compliant	

2.2 STATUS OF COMPLIANCE WITH CERTIFICATE OF APPROVAL FOR WASTE

The following section will demonstrate Plasco Trail Road Inc.'s compliance with the Certificate of Approval for Waste issued on December 1, 2006. The Certificate of Approval number is 3166-6TYMDZ. Table 2.2 outlines conditions as specified in the Certificate of Approval Waste and the status of compliance for Plasco Trail Road Inc.

Table 2.2 - Status of Compliance for Plasco Demonstration Project with Certificate of Approval for Waste (3166-6TYMDZ)

Condition	Condition Titre	Condition Summary	Status of Activity	Status of Compliance	Comments
COMPLIANCE					
2	n/a	Any person authorized to carry out work on, or operate any aspect of, the Site shall be notified of the Certificate and conditions herein and all reasonable measures taken to ensure any such person complies with the same.	Training has been implemented at all Plasco Trail Road Inc Demonstration Project for all relevant staff. The training manual was completed on November 22, 2007, as stated in the training report held on site, and was submitted to the Ministry of Environment, Ottawa District Office December 6, 2007.	Compliant	
3	n/a	Persons authorized to carry out work on or operate any aspect of the Site shall comply with the conditions of this Certificate.	Conditions of this certificate have been outlined in the Design and Operations Manuals and any person involved in operation or site work has been trained accordingly on Site as stated in condition 2.	Compliant	
BUILD IN ACCORDANCE WITH CERTIFICATE					
4	n/a	The Site shall be designed, developed, built, operated and maintained in accordance with the applications for this Certificate, the Design and Operating Manual as amended from time to time, and all other supporting documents listed in Schedule "A".	Site is designed and operates in compliance with these conditions. Modifications to the Plasco Facility have been included in Design and Operations Reports submitted throughout operation of the facility. DORs have been submitted to the Ministry over the period of operation on the dates of December 12, 2007; June 10, 2008; September 12, 2008; November 13, 2008 and March 9, 2009.	Compliant	
INTERPRETATION					
5	n/a	Conflicts of document provisions, this Certificate shall take precedence.	In compliance.	Compliant	CofA Waste takes precedence
6	n/a	Conflicts of an application and a provision for documents in Schedule A, the application takes precedence.	All modifications and changes in operational procedures are according to this CofA and any addendums to it that have been updated. Addendums include the following: CofA Waste Disposal Site 3166-6TYMDZ issued December 1, 2006, Amendment Notice 1 issued September 5, 2007, Amendment Notice 2 issued January 28, 2008, Amendment Notice 3 issued July 31, 2008 and Amendment Notice 4 issued December 9, 2008.	Compliant	

Condition	Condition Title	Condition Summary	Status of Activity	Status of	Comments
7	n/a	Conflicts between two Schedule A document (non applications), the most recent document take precedence.	In compliance.	Compliant	
8	n/a	Certificate is severable.	In compliance.	Compliant	
9	n/a	Unless otherwise specified, the obligations set out in this Certificate are those of both the Owner and Operator.	In compliance.	Compliant	
OTHER LEGAL OBLIGATIONS					
10	n/a	Other legal requirements still apply.	In compliance	Compliant	
11	Adverse Effects	Responsibility to minimize adverse effects.	One of the examples of efforts to reduce environmental effects through emissions sources are documented in the traffic and noise study submitted to the Ministry's Ottawa District Office on January 12, 2007.	Compliant	
12	Adverse Effects	The Owner, Operator or any other person remains responsible for any contravention of any other condition of this Certificate or any applicable statute, regulation, or other legal requirement resulting from any act or omission that caused the adverse effect to the natural environment or impairment of water quality.	In compliance.	Compliant	
CHANGE OF OWNER					
13	n/a	Notification of changes in Owner or Operator.	No changes of the owner. In compliance.	Compliant	
14	n/a	Notification requirements for transfer/encumbrance.	No changes. In compliance.	Compliant	
FINANCIAL ASSURANCE					
15	n/a	Submission of Financial Assurance.	Original Financial Assurance was submitted March 23, 2007. The Financial Assurance has been kept updated on January 28, 2008 and July 31, 2008.	Compliant	
16	n/a	Review of Financial Assurance by March 2007 and annually thereafter.	A written re-evaluation of the amount of Financial Assurance required to carry out the matters specified in Condition 15, based on the Financial Assurance Guideline applicable at the time of any re-evaluation, was submitted to the Director, and verified by the Ministry.	Compliant	

Condition	Condition Title	Condition Summary	Status of Activity	Status of	Comments
17	n/a	If any Financial Assurance is scheduled to expire or notice is received, indicating Financial Assurance will not be renewed, and satisfactory methods have not been made to replace the Financial Assurance at least sixty (60) days before the Financial Assurance terminates, the Financial Assurance shall forthwith be replaced by cash.	Assurance in place.	Compliant	
INSPECTIONS					
18	n/a	No hindrance or obstruction of Provincial Officers.	In compliance. No instances of non-conformance reported.	Compliant	
INFORMATION AND RECORD RETENTION					
19	n/a	Records provided to MOE upon request and kept for minimum of five years.	A records management system has been established and the Certificate has been reviewed to identify record requirements.	Compliant	
20	n/a	Receipt of information not equal to approval/acceptance by MOE.	In compliance.	Compliant	
CONSTRUCTION					
21	n/a	As-built drawings to be provided to MOE.	General Arrangement drawings (GAs) are provided within each updated Design and Operations Report submitted to the Ministry. The most current GA (Drawing Number 141-DL-0260) has been stamped by the professional engineer – M.R. Bacon, and submitted with a Design and Operations Report on March 9, 2009 to the Ministry.	Compliant	
OPERATION & MAINTENANCE					
22	Operation	The Site shall be operated and maintained at all times including management and disposal of all waste in accordance with the EPA, Regulation 347 and the conditions of this Certificate.	The Plasco Trail Road Inc. Facility is operated as per Regulation 347 and the conditions of this certificate have been outlined in the current report on the Waste Certificate of Approval, as submitted to the Ministry on March 9, 2009.	Compliant	
23	Demonstration Period	Written notification no later than 15 days after Start-Up Date.	The Owner has provided written notification to the Director and district Manager of the start-up date for when Municipal Waste is first received at the Site. This notification has been documented in a notice provided to the Ministry on or about January 24 2008.	Compliant	MOE Officers on site to observe MSW handling January 25, 2008
24	Demonstration Period	No waste received/processed after second anniversary of Start-up Date.	The Start-up date for Plasco is January 24, 2008. The Owner shall ensure that waste is removed from the Site after the second anniversary of this date.	n/a	

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
25	Public Meetings	Public Meetings to be held on a) before the Start-up date, b) between the 3 and 6 months of operation, c) between the 9 and 12 months of operation and d) within a month of the last day waste is processed on site.	<p>Plasco Trail Road Inc gave notice of public meetings through the two main local newspapers, Ottawa Sun and Ottawa Citizen. Notice was also placed on www.zerowasteottawa.com.</p> <p>The first public meeting was held on April 11th, 2007 (before waste was received on site) in Barrhaven. Notice was given to the MOE on March 24th, 2007. A legal notice was filed in both the Sun and Citizen on March 24th 2007. The week of the meeting, advertisements were placed in the Sun, Citizen and Metro on April 10th, 2007. Notice was also placed on zerowasteottawa.com.</p> <p>The second meeting held on July 24th, 2008 (3 to 6 months after receipt of waste) in Barrhaven. Notice was given to the MOE on July 9th, 2008. Advertisements were placed in the Citizen on Friday July 11th and in the Sun July 12th, and then 2 more ads were placed the week of the meeting on Monday July 21st in both papers. Notice was also placed on zerowasteottawa.com.</p> <p>The third meeting was held on December 6th (6 to 9 months after receipt of waste). Notice was given to the MOE on November 17th, 2008. Advertisements were placed in the Citizen and Sun on Tuesday November 18th and then 2 more ads were placed the week of the meeting on Wednesday December 3rd in both papers. Notice was also placed on zerowasteottawa.com.</p>	Compliant	
26	Traffic and Noise Study	Traffic & Noise Study to be submitted.	Prior to any waste being received on site, the Owner provided a traffic and noise study to the Director and the District Manager that provides all required information under this section. A report completing a noise (acoustic assessment) released from the Plasco Trail Road Inc. Site was submitted to the Ministry on the date of January 12, 2007.	Compliant	
27	Public Website	Public Website to be established with updated information.	The website http://www.zerowasteottawa.com has been established and contains updated site information.	Compliant	
28	n/a	Categories of acceptable Municipal Waste.	Plasco Trail Road Inc. Confirms that the most current acceptable categories of waste are being received and are in compliance with this section 28.	Compliant	

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
29	n/a	Maximum of fifteen (15) truckloads of waste may be received at the Site per day.	In compliance.	Compliant	
30	n/a	Approved rate of waste acceptance.	Plasco Trail Road Inc. Confirms that, (a) no more than 85 tonnes of municipal waste are processed on any day and (b) no more than 10 tonnes of waste at a combined minimum, described in clauses 28(b) and 28(c) are processed on any day.	Compliant	Details presented in appendix I of this report
31	n/a	Maximum amount of waste that may be present at the Site at any one time.	Plasco Trail Road Inc. Confirms that the maximum amount of waste that may present at the Site at any time does not exceed the required limits as specified under this condition 31 of the CofA (Waste).	Compliant	
32	Hours of Operation	Hours of operation / hours for acceptance of wastes.	Plasco Trail Road Inc. Confirms that the following hours operation and hours of acceptances of wastes are in effect: 1. On Mondays, Tuesdays, Thursdays and Fridays from 7:00 a.m. until 6:00 p.m. 2. On Wednesdays from 7:00 a.m. until 9:00 p.m. From April 15 to December 15. 3. On Wednesdays from 7:00 a.m. until 6:00 p.m. From December 16 to April 14. 4. On Saturdays from 8:00 a.m. until 4:00 p.m. as amended in CofA (Waste) notice no. 3 issued July 31, 2008.	Compliant	
33	Site Security and Signage	Site operated and maintained in a secure manner.	Plasco Trail Road Inc. Confirms that the Site is being operated and maintained in a secure manner. Security is outlined in the Design and Operations Report in section 12.2.1. As part of the Security on site, the facility has improved fencing.	Compliant	
34	Site Security and Signage	Sign to be posted and maintained at the main entrance/exit to the Site.	A sign has been posted and is maintained at the main entrance/exit to the Site displaying in a manner that is clear and legible from the public road bordering the Site. The sign contains the information required in this CofA Waste S. 34.	Compliant	

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
35	Receiving	All waste arriving at the Site shall be inspected by a Trained person.	All waste arriving on the Site is being inspected by trained personnel as per the Plasco Training Manuals prior to being received at the Site to ensure wastes are being managed and disposed of in accordance with requirements. Waste reception procedures are provided in the most current version of the Design and Operations Report (dated March 9, 2009) that was submitted to the Ministry's Environmental Assessment and Approvals Branch office and the Ministry's Ottawa District Office.	Compliant	
36	Receiving	In the event that a load of waste is rejected, a record shall be maintained identifying the reason the waste was refused, the type of waste that was refused and the generator and/or the origin of the waste, if known.	If a load of waste is rejected, a record is maintained identifying the required information as specified in this CofA Waste. No loads have been rejected in the first year of operation.	Compliant	
37	Labelling	All waste storage containers at the Site have a label or sign identifying the waste type and when applicable the waste class(es), the waste characteristic, WHMIS and TDGA classification of the contents contained within.	All waste storage containers at the Site have a label or sign identifying the required information. The label or sign is clearly visible for inspection and record keeping. Safety Procedures are outlined for WHMIS and TDGA within the Appendices of the most recent Design and Operations Report provided to the Ministry's Environmental Assessment and Approvals Branch on March 9, 2009.	Compliant	
38	Storage	All waste received at the Site shall be unloaded, processed and stored at the locations shown in the General Arrangement Drawing (Drawing Number 141-DL-0260) found in Schedule "A" of this Certificate.	All waste received at the Site is unloaded, processed and stored at the locations shown in the General Arrangement Drawing (Drawing Number 141-DL-0260) found in Schedule "A" of this Certificate. Waste storage is explained within the Design and Operations Report which was submitted on March 9, 2009 to the Ministry's Environmental Assessment and Approvals Branch office.	Compliant	
39	Storage	All waste and process chemicals shall be stored in accordance with "Guidelines for Environmental Protection Measures at Chemical Storage Facilities".	All waste and process chemicals are being stored in accordance with the MOE storage guidelines. Wastes and process chemicals are being segregated from other incompatible wastes and materials.	Compliant	
40	Processing	Operations limited to those described in the Site's Design and Operations Report contained within Item 3 of Schedule "A".	In compliance.	Compliant	

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
41	Processing	Procedures Manual shall contain detailed standard operating procedures relating to all aspects of the handling and processing of waste at the Site and shall be maintained current at all times and kept at the Site in central location that is accessible to Site personnel.	A Procedures Manual was prepared and was in effect by December 14, 2007. The Procedures Manual contains detailed standard operating procedures relating to all aspects of the handling and processing of waste at the Site. The Manual is updated regularly as improved methods of operation are identified	Compliant	
42.a	Odour	The Owner shall ensure that the doors of the material handling building shall be kept closed at all times and shall only be opened for entry or departure of vehicles.	In compliance.	Compliant	
42.b	Odour	In the event of a persistent odour issue at the Site that results in an offsite adverse impact, the Owner shall implement additional odour control measures in accordance with the odour contingency plan described in Item 8 of Schedule "A".	An odor strategy was prepared and submitted to the Ministry's Environmental Assessments and Approvals Branch on the date of November 28, 2006. No odour complaints have been received.	Compliant	
43.a	Odour	Domestic Waste received at the Site shall be utilized within seventy two (72) hours.	Plasco operates in compliance and consumes the waste within 72 Hours with the exception of one incident in January 2009. This incident was reported to the MOE.	Non-compliant	
43.b	Odour	Domestic Waste shall be removed from the loading/unloading area for disposal at an approved waste disposal site within forty eight (48) hours during emergency situations, mechanical failure or process upsets.	Domestic Waste shall be removed from the loading/unloading area for disposal at an approved waste disposal site within forty eight (48) hours during emergency situations, mechanical failure or process upsets.	Compliant	
44	Odour	The tipping floor shall be cleaned following each day's operation and shall be disinfected as necessary.	In compliance.	Compliant	
45	Odor	A. All waste generated at the Site shall be disposed of in accordance with Reg. 347 ; and B. Only haulers approved by the Ministry shall be used to transport waste from the Site.	In compliance.	Compliant	
46	Landfill Gas Monitoring	Landfill gas monitoring is carried out at the Site in accordance with the landfill gas monitoring plan for the Nepean Landfill Site (Closed) as it is amended from time to time.	The Owner confirms that landfill gas monitoring is being carried out at the Site as specified under the conditions in section 46 of this CofA Waste.	Compliant	

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
47	Site Inspection	Trained Personnel shall inspect the entire Site each day the Site is in operation.	Trained personnel inspect the entire Site each day it is in operation to ensure that the Site is being operated in compliance with this Certificate. Any deficiencies discovered as a result of the inspection are remedied as soon as possible, including temporarily ceasing operations at the Site if needed. On each operating day, a visual inspection of the areas provided above is completed.	Compliant	
48	Site Inspection	A record of the inspections shall be kept in the daily log book that includes specified information.	In compliance.	Compliant	
49	Monthly Engineer's Reports	Third Party Engineer Inspections as provided in detail in this section of (a), (b) and (c).	(a) In compliance. (b) Reports have been prepared by a Professional Engineer employed by Decommissioning Consulting Services (DCS) Ottawa, in compliance with this CofA Waste and the CofA for Air. These reports have been submitted to the Ministry's Ottawa District Office on the dates as specified in the status of activity for section 9(1) of the CofA Air. (c) In compliance.	Compliant	
50	Other Approvals	No waste shall be received at the Site and no Site processes and equipment shall be operated unless all approvals under Section 9 of the EPA, where applicable, have been obtained.	In compliance.	Compliant	
51	Other Approvals	All direct discharges from this Site including stormwater run-off shall be managed in accordance with applicable Municipal, Provincial and or Federal Legislation, Regulations and By-laws.	Direct Discharges from the site are documented in the report describing this Certificate of Approval for Waste, submitted to the Ministry's Environmental Assessment and Approvals Branch on August 22, 2008 and updates that are proven to be in accordance with all Regulations and applicable by-laws.	Compliant	
52	Other Approvals	Copy of a CEPA Schedule II Notification for the Thio Bacillus W5 organism.	The Owner Confirms that prior to any amount of waste being received at the Site the Owner provided the District Manager and the Director a copy of a Schedule II Notification for the Thio Bacillus WS organism on November 1, 2006 to Tim Edwards at the Ministry and to Heather Darch at CEPA.	Compliant	

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
53 a.	Training	A training plan shall be submitted to the District Manager a minimum of thirty (30) days prior to the acceptance of any waste at the Site . The training plan shall be developed, implemented and maintained for any persons that operate the Site.	A training plan was submitted to the District Manager on December 6, 2007. The training plan was developed, and is implemented and maintained for any persons that operate the process on site.	Compliant	
53. b	Training	A record showing that all persons directly involved with activities relating to the Site have been trained in accordance with the requirements described in Condition 53(a) shall be maintained at the Site at all times.	Plasco Trail Road Inc. Confirms that a record showing that all persons directly involved with activities relating to the Site have been trained in accordance with the requirements described in Condition 53(a) is maintained at the Site at all times.	Compliant	
54	Training	A Trained Person shall be available at all times during the hours of operation of this Site to carry out any activity required under this Certificate.	In compliance.	Compliant	
55	Complaint Response	Complaints shall be responded to according to the defined procedure within this condition.	No complaints have been received	Compliant	
56	Emergency Response Plan	The Owner shall submit to the District Manager a Spill Contingency and Emergency Response Plan for the Site a minimum of sixty (60) days prior to the acceptance of waste at the Site.	A Spill Contingency Plan and Emergency Response Plan were submitted on March 12, 2007. The Plan contains the required information as provided in this section 56 of the CofA (Waste).	Compliant	
57	Emergency Response Plan	The Owner shall ensure that the Spill Contingency and Emergency Response Plan for the Site is reviewed annually and maintained current at all times.	Plasco Trail Road Inc. Confirms that the Spill Contingency and Emergency Response Plan for the Site is reviewed annually and maintained current at all times.	Compliant	Spill and Contingency Plans were updated and submitted to the Ministry on December 5, 2008.
58	Emergency Response Plan	The Spill Contingency and Emergency Response Plan shall be retained in a central location on the Site and shall be accessible to all staff at all times.	In compliance.	Compliant	
59	Emergency Response Plan	The equipment, materials and personnel requirements outlined in the Spill Contingency and Emergency Response Plan shall be immediately available on the Site at all times. The equipment shall be kept in a good state of repair and in a fully operational condition.	Plasco Trail Road Inc. Confirms that the equipment, materials and personnel requirements are available on the Site at all times in the required document. The equipment is kept in a good state of repair and in a fully operational condition.	Compliant	

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
60	Emergency Response Plan	All staff that operates the Site shall be fully trained in the use of the Spill Contingency and Emergency Response Plan and in the procedures to be employed in the event of an emergency.	Plasco Trail Road Inc. Confirms that all staff that operates the process on Site is fully trained in the use of the Spill Contingency and Emergency Response Plan and in the procedures to be employed in the event of an emergency.	Compliant	
61	Emergency Response Plan	The Owner shall immediately take all measures necessary to contain and clean up any spill or leak which may result from the operation of this Site and immediately implement the Spill Contingency and Emergency Response Plan, if required.	In compliance.	Compliant	
62	Site Design and Operating Manual	The Design and Operating Manual shall be retained at the Site, kept up to date, and be available for inspection by Ministry staff.	The Design and Operating Manual is retained at the Site; kept up to date; and is available for inspection by Ministry staff. The Design and Operating Manual contains the information as specified in the Ministry publication "Guide For Applying For Approval Of Waste Disposal Sites".	Compliant	As onsite.
63	Site Design and Operating Manual	Changes to the Design and Operating Manual shall be submitted to the Director for approval.	In compliance. All previous changes have been submitted for approval to the Director in the last revision on March 9, 2009.	Compliant	
64	Daily Log Book	A log book or electronic file shall be maintained at the Site for a minimum of five years and shall include daily records of the following information.	Plasco Trail Road Inc. Confirms that a log book or electronic file is maintained at the Site for a minimum of five years and includes daily records of the information provided in this section (64) of this Certificate. Plasco records conform to the International System of Units (Metric).	Compliant	

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
65	Semi-Annual Progress Report	Semi-annual Progress Report the purpose of the demonstration project; b. an executive summary; c. a statement as to compliance with the requirements of O. Reg. 254/06 and all CofAs; d. a detailed monthly and semi-annual summary of the information required by Condition 64 of this Certificate; e. a detailed monthly and semi-annual summary of the reporting requirements required within the CofA (Air) f. any environmental and operational problems encountered during the operation of the Site and during the facility inspections and any mitigative actions taken; g. any changes to the Spill Contingency and Emergency Response Plan, the Design and Operating Report and the Closure Plan that have been approved by the Director. i. any recommendations to minimize environmental impacts ii. a summary of any complaints received.	Due to ongoing changes in operations at Plasco, Plasco Trail Road Inc. Was unable to submit this report within 2 months of the conclusion period. A Semi-Annual Report has been prepared and submitted to the Director and the District Manager. The semi-annual Report for the first six-month period contains all required information as specified in this section 65 of the CofA Waste and was submitted November 3, 2008.	Non-Compliant	The semi-annual report was delayed and was submitted November 3, 2008.
66	Final Assessment Report	Final Assessment Report.	This section will be completed within the last year of operation.	n/a	
67	Closure Plan	A Closure Plan shall be submitted to the Director for approval within ninety (90) days of the issuance of this Certificate with a copy to the District Manager.	A Closure Plan was submitted to the District Manager for Plasco Trail Road Inc. on April 3, 2007 and contains the description of the work that will be done to facilitate closure of the Site and a schedule for completion of this work. This Closure Plan was submitted to the Ministry's Environmental Assessment and Approvals Branch for review.	Non-Compliant	Please note that the Closure Plan submission was delayed by 30 days.
68	Closure Plan	When the Owner ceases to receive, process and transfer waste at the Site in accordance with this Certificate, the Owner shall promptly close the Site in accordance with the approved Closure Plan.	This will be completed in compliance with this section (68) of this Certificate when the Owner ceases to receive waste at the Site.	n/a	
69	Closure Plan	Within ten (10) days after closure of the Site, the Owner shall notify the Director, in writing, that the Site is closed and that the approved Closure Plan has been implemented.	This will be completed in compliance with this section (69) of this Certificate within ten (10) days after closure of the Site.	n/a	

2.3 STATUS OF COMPLIANCE WITH CERTIFICATE OF APPROVAL FOR AIR

The following section will demonstrate Plasco Trail Road Inc.'s compliance with the Certificate of Approval for Air issued on December 1, 2006. The Certificate of Approval number is 69256-REN9E.

In addition to the Certificate of Approval (Air), MOE issued two (2) temporary approvals to Plasco Trail Road Inc.

- One day approval – October 15th 2008
- Program Approval – December 1, 2008

The one day approval issued in October permitted the demonstration facility to reroute engine exhaust to the flare on October 16th, 2008. Plasco was compliant with this one day approval.

The program approval issued on December 1, 2009 granted Plasco temporary operational and maximum emission limits for organic matter at the engines. The temporary emission limits granted Plasco the opportunity to effectively tune and assess the engines. Plasco is compliant with the Program Approval.

Table 2.3 outlines conditions as specified in the Certificate of Approval Air and the status of compliance for Plasco Trail Road Inc.

Table 2.3 - Status of Compliance for Plasco Demonstration Project with Certificate of Approval for Air (6925-REN9E)

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
NOTIFICATION OF START-UP					
1	Start-Up	MOE to be notified of Start-up Date no later than 15 days after that date.	Plasco Trail Road Inc. notified the Director and District Manager of the start up date within the 15 day requirement.	Compliant	
PERFORMANCE REQUIREMENTS					
2	n/a	Company shall operate in accordance with performance limits.	Plasco Trail Road Inc. designed, and operates, the Demonstration Project to comply with the required performance criteria as provided in section 2 of this CofA.	Compliant	
3	Maximum Limits	Activated carbon not to be exhausted.	No activated carbon was exhausted at any time during the operation of the Demonstration Project.	Compliant	
OPERATION & MAINTENANCE					
4(1)	n/a	<p>Company to prepare, before commencement of operations, and update as necessary, an O&M Manual for the Facility and Equipment. This manual includes the following information:</p> <ul style="list-style-type: none"> (a) routine operating and maintenance procedures in accordance with good engineering practices and as recommended by the Equipment suppliers, (b) frequency of inspection of the scrubbers, (c) frequency of monitoring the emissions from the Activated Carbon Filters and criteria to replace the activated carbon in the Activated Carbon Filters, (d) a staffing plan, (e) procedures for any record keeping activities relating to operation and maintenance of the Equipment, (f) all appropriate measures to minimize noise, dust and odorous emissions from all potential sources, (g) complaint handling procedures, (h) contingency plans and emergency procedures, and (i) a closure plan. 	Plasco Trail Road Inc. Prepared an Operations Manual before commencement of operation of the Power Demonstration Project. The manual was published on December 12, 2007. Information included in the manual encompasses all listed requirements in this section (from A to I).	Compliant	

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
4(2)	n/a	Company is to implement recommendations of O&M Manual.	The recommendations of the manual are as follows: Regarding the Operations Manual of the Plasco Trail Road Demonstration Project, the company will comply with section requirements as stated in 4(3), 4(4), 4(5), and 4(6).	Compliant	
4(3)	n/a	O&M Manual to be made available to Ministry.	The manual was completed on December 12, 2007 and is available for inspection at the facility.	Compliant	
4(4)	n/a	Odour Control Plan to be prepared and updated.	The Company has prepared an Odour control Plan for the facility which was published on November 28, 2006.	Compliant	
4(5)	n/a	Ensure funding, staffing, training of staff, process controls, quality assurance and quality control procedures are adequate to achieve compliance with Certificate.	The company is responsible for all funding staffing and training of staff, process controls and quality assurance, all this so as to run the Plasco Trail Road Demonstration Project under the best conditions possible and to achieve compliance with this certificate.	Compliant	
4(6)	n/a	Ensure equipment, material and spare parts of equal or better quality and specifications available.	Plasco Trail Road Demonstration Project operates its equipment so that they are of good condition, are kept in good repair, and are immediately available in the event of any situation as listed in section 4(6) of this Certificate. Maintenance Staff are trained in use of all equipment in the methods to be used in any occurrence.	Compliant	
5	n/a	Material Handling Building doors to remain fully closed, except for personnel/vehicle entry/exit when wastes stored.	All doors in the Materials Handling Building of the Facility are fully closed, except when being used for necessary personnel or vehicle entrance and exit, whenever there are wastes stored inside the building. This condition was revoked and replaced on December 5, 2007. Plasco Trail Road Inc. Confirms that this most recent condition is in compliance.	Compliant	

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
MONITORING					
6(1)	n/a	CEM to be installed and operating before Start-up Date.	Plasco Trail Road Inc. Installed a continuous emission monitoring system (CEM system) to continuously monitor, record and determine the concentration for the following contaminants in the undiluted flue gases leaving the reciprocating engines or the flare: 1. Temperature, oxygen on April 23, 2007. 2. Carbon Monoxide on April 23, 2007. 3. Oxygen on April 23, 2007. 4. Nitrogen oxides on April 23, 2007. 5. Hydrochloric acid on April 23, 2007. 6. Sulphur dioxide on April 23, 2007. 7. Organic matter. O. Reg. 254/06, s. 10 on April 23, 2007.	Compliant	
6(2)	n/a	CEM to be installed and operated in accordance with defined requirements.	The CEM system is being operated according to all requirements and conditions as specified in section 6(2) of this CofA Air under subsections (a) to (c). The Plasco system is compliant as per amendments incorporating a single flare.	Compliant	
6(3)	n/a	Mercury and PM to be monitored by CEM if not source tested.	If the concentrations of mercury and particulate matter are not source-tested in accordance with condition 7(4) below, install and maintain operational a CEM System to monitor continuously and to record the concentrations of mercury and particulate matter in the undiluted flue gases leaving the reciprocating engines or the flare. CEM option is not being exercised and HG and PM are being source tested.	Compliant	
6(4)	Source Testing	The Company shall perform Source Testing to determine the rates of emission of the Test Contaminants from the reciprocating engine sources and the flare sources. The Source Testing shall be conducted at maximum rating or at the maximum load achievable at the time of testing. Each test set shall consist of three (3) separate tests for each contaminant to be tested. The Source Testing shall be conducted under different operating scenarios of the Facility as follows: (a) Scenario 1: the feed to the Converter is all Municipal Waste, (b) Scenario 2: the feed to the Converter is majority Municipal Waste with about 3 - 5% by weight of the feed High Carbon Waste consisting primarily of recycled plastic rejects, and (c) Scenario 3: the feed to the Converter is majority Municipal Waste with about 3 - 5% by weight of the feed High Carbon Waste consisting primarily of shredded tires.	Plasco Trail Road Inc. Confirms that source testing will occur as required under the conditions provided within this section 6(4) within the year 2009.	n/a	Revised dates have been negotiated with the Ministry of Environment

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
6(5)	Source Testing	The Company shall submit to the Manager, within one (1) month after the Start-up Date of the Facility, a test protocol, including the Pre-Test Information for the Source Testing required by the Source Testing Code. The Company shall finalize the test protocol in consultation with the Manager.	Source Testing Plans have been submitted and approved, but effective sampling dates have been re-negotiated.	n/a	
6(6)	Source Testing	The Company shall complete the Source Testing after the Manager has accepted the test protocol either in accordance with the following schedule or as directed or agreed by the District Manager: (a) not later than three (3) months after the Start-up Date of the Facility, when all the discharge is through the flare sources, for all the operating scenarios described in condition 7(4) above.	Due to on going changes in operations at Plasco Trail Road Inc. Demonstration Project, Plasco was unable to perform Source testing within the first year of commissioning of the project. Within the year 2009, Plasco will perform Source testing to determine the rates of emission of the Test Contaminants from the reciprocating engine and the flare. The Source Testing will be conducted at maximum rating or at the maximum load achievable at the time of testing. Each test set will consist of three (3) separate tests for each contaminant to be tested. Requirements 6(4) through 6(10) will be followed as listed in this section.	n/a	Test has not been performed, but the date has been agreed upon by the Ministry.
6(7)	Source Testing	The Company shall notify the Director, District Manager and the Manager in writing of the location, date and time of any impending Source Testing required by this Certificate, at least five (5) business days prior to the Source Testing.	To be completed when source testing is completed in the next half year.	n/a	
6(8)	Source Testing	The Company shall prepare and submit interim and final reports on the Source Testing to the Director, District Manager and the Manager in accordance with the schedule provided in section 6(8) in this Certificate.	To be completed when source testing is completed in the next half year.	n/a	
6(9)	Source Testing	The Director may not accept the results of the Source Testing for any reason as provided in section 6(9) of this Certificate.	To be completed when source testing is completed in the next half year.	n/a	
6(10)	Source Testing	If the Director does not accept the results of the Source Testing, the Director may require the Company to repeat Source Testing.	To be completed when source testing is completed in the next half year. All source testing requirements have been revoked and replaced on December 5, 2007. Plasco Trail Road Inc. Confirms that the most current conditions as specified in this section 6 of amendments are in compliance.	n/a	

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
CESSATION OF DISCHARGES					
7	n/a	Implementation of Cessation of Discharge Protocol as provided in section 7 of this Certificate in subsections 1 to 6.	7(1) to 7(3): No events. 7(4): A Cessation of Discharge incident occurred on July 15, 2008 for SO ₂ at the flare source. The incident was reported to the MOE and an investigation of the causes was initiated. Corrective actions were undertaken immediately following the incident, including the addition of a preheating/a maintenance bypass around the carbon bed (approval granted as per Amendment to Certificate of Approval (Air) No. 6925-6REN9E Notice No. 4. A report was submitted for this incident to the Ministry's Ottawa Regional Office on July 27, 2008 and provides details of why the incident occurred and solutions that were proposed and how a solution was implemented.	Compliant	
8	n/a	Source Testing required after implementation of Cessation of Discharge Protocol.	In compliance.	Compliant	
REPORTING REQUIREMENTS					
9(1)	n/a	Monthly Engineer's Report.	Further Monthly Engineering Reports were submitted as follows: March 6, 2008 for the reporting period of February 2008. April 8, 2008 for the reporting period of March 2008. May 5, 2008 for the reporting period of April, 2008. June 4, 2008 for reporting period of May, 2008 July 4, 2008 for reporting period of June, 2008. August 12, 2008 for the reporting period of July, 2008. September 10, 2008 for the reporting period of August, 2008. October 10, 2008 for the reporting period of September, 2008. November 6, 2008 for the reporting period of October, 2008. December 6, 2008 for the reporting period of November, 2008. January 12, 2009 for the reporting period of December, 2008. February 10, 2009 for the reporting period of January, 2009.	Compliant	
9(2)	n/a	Non-compliance Report.	Not applicable.	Compliant	

Condition	Condition Title	Condition Summary	Status of Activity	Status of Compliance	Comments
9(3)	n/a	Semi-Annual Reports.	The first semi-annual report was prepared and submitted to the District Manager on the date of November 3, 2008 in accordance with Condition 63 of the Certificate of Approval (Waste) and for all requirements as specified in this CofA Air 9(3) and relevant sections. The second semi-annual report for the second half of the previous year is contained within this yearly report as agreed upon with the Ministry.	Compliant	Though compliant the report was delayed.
9(4)	n/a	Final Assessment Report.	To be completed not later than 3 months after waste is last processed in the Facility, including all information required in Condition 48 in the CofA (Waste).	n/a	
RECORD RETENTION					
10	n/a	Records identified to be kept for five (5) years.	All of the above mentioned records of Plasco Trail Road Demonstration project are available on site to staff of the Ministry for review upon request. Plasco Trail Road Inc. Confirms that all records and documents in accordance with revoked and replaced conditions are also available on site to staff of the Ministry for review upon request.	n/a	
NOTIFICATION OF MINISTRY					
11	n/a	Ministry to be notified in writing prior to Start-up Date as to whether construction was in accordance with Certificate.	The Company notified the District Manager, before the Start-up Date of the Facility that the construction of the Facility had been carried out in accordance with this Certificate to a point of substantial completion.	Compliant	
12	n/a	District Manager to be notified of each environmental complaint in accordance with Condition 53 of Certificate of Approval (Waste).	In the event of an environmental complaint the Company notifies the District Manager, in writing, in accordance with Condition 53 of the Certificate of Approval (Waste).	Compliant	No complaints have been made

3.0 DETAILED MONTHLY, SEMI ANNUAL AND ANNUAL SUMMARY OF INFORMATION REQUIRED BY COFA (WASTE) AND COFA (AIR)

Plasco Trail Road has been accepting increasing amounts of MSW over the course of the first year of operation. No truck load of waste has been refused in the first year of operation. Unprocessed waste is returned to the Trail Road Landfill, as per Conditions 43a and 43b of Provisional Certificate of Approval (Waste) #3166-6TYMDZ, due to either the approach of the MSW storage limit and/or process shutdown (see section 3.1).

The largest amount of Municipal Solid Waste (MSW) received in a month was 533.2 tonnes in November 2008. The maximum daily quantity MSW received was 128.1 tonnes/day in November 2008. The maximum daily quantity of MSW processed was 56.4 tonnes/day in May 2008. The maximum daily quantity of High Carbon Feed (HCF) received was 22.9 tonnes/day in December 2008. The maximum daily quantity of HCF processed was 8 tonnes/day in June 2008. Monthly waste data is summarized in Table 3.1. Detailed MSW and HCF data from the reporting period are included in Appendix I.

TABLE 3.1 MONTHLY WASTE SUMMARIES

Parameter	Units	Monthly Value												
		Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09
Average Daily Quantity of Municipal Waste Received	Tonnes/day	-	4.6	3.1	13.0	8.8	68.0	30.0	-	6.6	11.2	19.0	3.9	15.4
Average Daily Quantity of Municipal Waste Processed	Tonnes/day	-	1.8	1.2	7.5	4.5	44.0	20.0	-	1.5	5.2	8.2	2.0	6.2
Maximum Daily Quantity of Municipal Waste Processed	Tonnes/day	-	18.1	18.6	34.0	56.4	40.0	30.0	-	45.0	55.6	55.2	20.7	25.4
Maximum Daily Quantity of Municipal Waste Received	Tonnes/day	-	41.6	43.3	43.0	78.2	65.0	80.0	-	60.0	81.1	128.1	48.2	65.7
Total Quantity of Municipal Waste Received in Month	Tonnes	-	132.3	96.8	386.0	273.9	355.0	260.0	22.5	199.2	391.7	533.2	137.8	430.6
Total Quantity of Municipal Waste Processed in Month	Tonnes	-	52.6	37.9	225.0	138.3	230.0	170.0	0.0	45.0	180.8	230.7	68.2	173.0
Average Daily Quantity of High Carbon Waste Received	Tonnes/day	-	0.2	0.0	0.2	0.0	4.0	0.0	-	0.0	0.0	0.0	0.7	0.4
Average Daily Quantity of High Carbon Waste Processed	Tonnes/day	-	0.0	0.0	0.1	0.0	2.0	0.7	-	0.0	0.0	0.0	0.4	0.4
Maximum Daily Quantity of High Carbon Waste Processed	Tonnes/day	-	0.0	0.0	2.0	0.0	8.0	2.0	-	0.0	0.0	0.0	5.5	3.0
Maximum Daily Quantity of High Carbon Waste Received	Tonnes/day	-	6.3	0.0	5.6	0.0	12.0	0.0	-	0.0	0.0	0.0	22.9	11.1
Total Quantity of High Carbon Waste Received in Month	Tonnes	-	6.3	0.0	5.6	0.0	23.0	0.0	-	0.0	0.0	0.0	22.9	11.1
Total Quantity of High Carbon Waste Process in Month	Tonnes	-	0.0	0.0	3.5	0.0	12.0	6.0	-	0.0	0.0	0.0	13.0	11.5

3.1 RESULTS OF ANALYSIS OF RESIDUAL WASTES (ASH, SLAG, WASTEWATER, OTHER)

The Plasco conversion process at the Trail Road Demonstration Facility produces several types of residual waste. Two types of ash are created as part of the process: converter ash and baghouse ash. Converter ash is only produced during periods of time when the CRV is not operating. Converter ash is inert and is sent to the Trail Road Landfill for disposal. Baghouse ash is disposed of as hazardous waste via a licensed carrier through the MOE's Hazardous Waste Information Network (HWIN) program. Slag, also created during the process, is inert and is currently sent to the Trail Road Landfill. Wastewater is sent for disposal via a licensed carrier.

Sample results for residual wastes are included in Appendix II.

NOTE: In the second quarter of 2009, Plasco will be commissioning its waste water treatment system that will treat our water discharge to sewer grade standards (our commercial facilities will treat waste water to potable quality standards)

3.2 WASTE SHIPPED FROM THE SITE/DESTINATION (RESIDUAL, REFUSED, UNPROCESSED)

As discussed previously, baghouse ash and wastewater are sent for disposal as hazardous waste to approved waste disposal sites using a licensed carrier. Plasco Trail Road generates additional hazardous waste as part of standard operations. These additional wastes include such items as waste oil/lubricants and spent activated carbon.

Non hazardous wastes shipped from site to the Trail Road Landfill can be classified into 6 different categories:

1. Converter Ash
2. Slag
3. Site waste (garbage generated at site)
4. White goods and other unacceptable materials extracted from the MSW
5. Metals recovered for recycling
6. MSW that has expired on tip floor

The amounts of residual wastes and hazardous wastes generated at the Plasco Trail Road Facility are summarized in Appendix III.

3.3 DAILY/MONTHLY INSPECTIONS

The Plasco Trail Road Facility is inspected on a daily basis by the operators. These observations are documented as part of the daily shift (twice per day) and operations rounds (once per day) checklists. Maintenance, inventory and housekeeping details are noted and addressed. The checklists are summarized below on a monthly basis.

February 2008

A number of maintenance items were documented in February 2008, including low engine oil, and CEMS communication and alarm monitoring errors.

March 2008

Maintenance items noted for this month include a burnt out light switch, and servicing of the instrument air compressor. Housekeeping items noted were the emptying of the North USB sump and the removal of barrels.

April 2008

Maintenance items included service lights on the compressor and the torch air dryer, as well as servicing of the HCl filter system and HCl pump.

May 2008

In May, it was noted that the compressor air dryer service light was on. Housekeeping items included the emptying of the metals bin.

June 2008

Maintenance was required on the MSW pump. Housekeeping was required to address converter ash on the floor. The inventory of chemicals in the cooling tower was noted as low.

July 2008

Maintenance items noted for this month include belt problems on the instrument air compressor and the disconnection of the CEMS for maintenance purposes. Housekeeping items included a torn windsock. The brine tank and the cooling tower were low on inventory.

August 2008

Maintenance notes for August 2008 included a missing inlet air filter on the instrument air compressor and a maintenance light was showing on the CEMS panel. Housekeeping concerns included a damaged windsock and a full North USB sump.

September 2008

Maintenance items documented for September were malfunctioning lights in the syngas blower noise enclosure, a whining instrument air pump and elevated temperatures in the CEMS building. The North USB sump was listed as full on several dates. A low oil level in the instrument air compressor was noted.

October 2008

Maintenance notes for October include filters on the air inlet of the instrument air compressor and the inlet air of the torch air compressor required changing. Inventory items include requirements for chemicals for the brine tank, cooling tower and eye wash stations.

November 2008

Maintenance was required on the instrument air pump, the torch air compressor and the HCl pump.

December 2008

The instrument air compressor was serviced and maintenance was required on the HCl cooling water pressure gauge. Inventory was noted as being low in the diesel tank.

January 2009

Maintenance was required on the pressure gauge on torch cooling system. The instrument air compressor had a low oil level and required a filter change. Housekeeping items included removing snow from on top of the process drains.

3.4 RECORDS OF SPILLS/UPSET (AIR DISCHARGES, SHUT-DOWNS, SPILLS TO GROUND)

Plasco Trail Road has documented the following spills/upsets in the first year of operation:

A cessation of discharge incident for SO₂ at the flare occurred on July 15, 2008 when some of the sulphur contained in the activated carbon was released. The incident was reported to the Ministry of the Environment on July 15, 2008. An incident report was filed with the MOE on August 5, 2008. To prevent a recurrence of the incident, a bypass was installed around the carbon bed to protect the carbon filter during preheat.

On nine (9) dates in December 2008, January & February 2009, the activated carbon bed filter was bypassed while the plant was in operation. A frozen exit valve on the carbon bed filter caused the issue. Malfunctioning alarms impeded the ability of operational staff to detect the problem. These events were all reported to the MOE in one incident report (dated February 24, 2008). To prevent a recurrence, drain valves have been installed to prevent water from accumulating and freezing above the exit valve. Heat tracing was also installed on the valves.

On January 1, 2009 wastewater spilled from the piping connected to the MSW sump. Due to the cold weather, the spilled liquid froze quickly. The ice was collected from the asphalt and placed in a lugger bin, pending characterization and disposal. This incident was reported to authorities on January 1, 2009 and an incident report was submitted January 27, 2009. Heat tracing has been added to the affected section of piping and it is ensured that heat tracing is turned on at the MSW sump during cold weather

On January 7th and 11th, 2009, concentrations of Organic Matter exceeded the maximum emission limit at the flare. On both dates, the cold weather was found to be the cause. A frozen propane valve resulted in high organic matter emissions on January 7th and a frozen igniter resulted in high organic matter emissions on January 11th. Each incident was resolved within approximately 20 minutes. A voicemail notification was left for the Ministry on February 6, 2009 and a written notification was sent February 9, 2009. The incident report was submitted on February 24, 2009. To prevent a recurrence of the incident, heaters are placed on the propane control valve during extremely cold weather.

Incident reports were prepared and submitted to the MOE in each case noted above.

3.5 CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS)

3.5.1 CEMS Overview

Emissions are monitored on a continuous basis at Plasco Trail Road at 2 locations: the engine exhaust and the flare. The flare is used in situations when the engines cannot process the syngas. Emissions are

continuously measured by a SICK|MAIHAK model MCS100E HW Gas Analyzer that measures NOX, HCl, SO2, CO, CO2, O2 and Organic Matter.

3.5.2 Sampling Strategy

A gas sample is continuously extracted through a heated sample line and a corrosion-resistant filter and probe for the removal of all particulate matter greater than 2µm (removal efficiency of 99.99%). The sample then enters a CEMS distribution manifold located in the CEMs enclosure for analysis by the SICK|MAIHAK MCS100E HW Analyzer. The CEMS enclosure is fitted with the gas analyzers, and all the equipment necessary to obtain an accurate analysis of the gas concentrations such as sample pump, valves, flow meters, auxiliary equipment for sample and calibration gas control, control/alarm panel, and temperature controllers,

The analyser has hot / wet basis sampling capability to preclude wash-out of water-soluble sample components (i.e. NO2, HCl, SO2), as is typical for the sample conditioners required in cold / dry systems. The SICK|MAIHAK CEMS gas analyzer is capable of measuring gas from the engines, or gas from the flare by alternating between both sources. A manual switch selects the mode of sampling. Gas samples are drawn via a 100m sampling line to the flare and a 67m sampling line to the engine. When alternate samples are drawn, 6 minutes of sampling is used at each source, where the first three minutes of data is discarded as pre-measurement and the last three minutes are stored to generate average measuring valid value points.

3.5.3 Calibration Range

Calibration can be set through the Flare probe or Engine probe. A direct feed into the analyzer calibration is also available. Table 3.9.3.1 outlines the calibration gases used and the certification level associated with those gases:

Table 3.9.3.1 - Calibration Gases

Gas	Concentration	Certification
Propane	60 ppm Balance N2	Protocol One
Mixed Cal Gas	45 ppm SO2, 130 ppm NO, 1800 ppm CO Balance N2	Protocol One
Hydrogen Chloride	30 ppm HCl Balance N2	Certified
Carbon Dioxide	15 % Balance N2	Certified
Nitrogen	99.999% N2	Certified

The calibration of the CEMS allows the following measuring ranges to be established:

Table 3.9.3.1 - Full Scale Range of CEMS

Gas	Measureable Range
OM	0-200ppm
SO ₂	0-50ppm
NO	0-150ppm
HCl	0-36ppm
CO	0-0.2 vol %
CO ₂	0-20 vol %
O ₂	0-25 vol%

3.5.4 Data Logging

CEMView software which runs on a dedicated Data Acquisition System PC computer is used to retrieve process data directly from the instruments via serial or serial/Ethernet communications ports.

The software provides graphical displays representing instantaneous values, 1 and/or 6-minute averages, 1-hour averages and 720-hour data.

All process values are automatically archived to the hard disk and DVD±RW in database format. The software is configured to automatically log data and print reports based on Environment Canada's EPS 1/PG/7 and user-defined reporting requirements. The raw input data cannot be altered.

Operators have the ability to instantaneously create and print reports containing data averages, limit exceedances, and availability over any specified time period. Both automated and user-defined reports can be stored on the hard drive.

All events, such as calibrations, malfunctions, exceedances, maintenance and plant shut-downs are capable of being "flagged" with operator notations.

The CEMView DAS incorporates a 3.2 GHz Dell PC including 1024 MB RAM, 2x 160 GB hard drives. Reliable operation of the DAS computer is ensured by the RAID 1 (mirrored) drive array, which provides a continuous on-line backup. In addition, access capability via Internet or modem allows for remote diagnosis of the MCS100E HW analyzer and CEMView DAS on a 24/7 basis.

3.5.5 Operation and Maintenance

The CEMS at the Plasco Trail Road Facility is calibrated every day that the process runs in order to maintain an acceptable drift percent. Three (3) Cylinder Gas Audits (CGA) and system response tests were conducted during the reporting period and the results were within manufacturer specifications for this equipment.

Preliminary drift tests were conducted in January 2009 and the results were within manufacturer specifications for this equipment.

3.5.6 CEMS Monitoring Results

CEMS results are reported monthly in the Monthly Engineer's Report. In addition, CEMS data is reported on a weekly basis to the Zerowaste website. The monthly data is summarized in Table 3.4.

A summary of the weekly CEMS data is included in Appendix IV.

TABLE 3.4

Month	Flare					Engines				
	Maximum 24 hr rolling average				Maximum 10 min rolling average	Maximum 24 hr rolling average				Maximum 10 min rolling average
	NOX	HCl	SO2	Organic Matter	Organic Matter	NOX	HCl	SO2	Organic Matter	Organic Matter
	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv
<i>Operational Limit</i>		13	14	75	75		13	14	75 (200 ^{***})	75 (200 ^{***})
<i>Maximum Limit</i>	110	18	21	100	100	110	18	21	100 (225 ^{***})	100 (225 ^{***})
Feb-08	53	0.5	8	14	nr	n/a	n/a	n/a	n/a	nr
Mar-08	47	1	8	29	nr	n/a	n/a	n/a	n/a	nr
Apr-08	59.04	2.82	13.34	28.45	nr	n/a	n/a	n/a	n/a	nr
May-08	60.84	0.95	11.96	15.94	nr	n/a	n/a	n/a	n/a	nr
Jun-08	52.66	1.32	13.79	4.56	nr	n/a	n/a	n/a	under review	nr
Jul-08	66.31	1.71	14.67 *	6.74	nr	n/a	n/a	n/a	n/a	nr
Aug-08 ⁺	66.31	1.71	14.67 *	6.74	nr	n/a	n/a	n/a	n/a	nr
Sep-08	59.79	1.77	12.07	15.27	nr	n/a	n/a	n/a	n/a	nr
Oct-08	82.18	1.5	11.62	14.29	nr	n/a	n/a	n/a	n/a	nr
Nov-08	74.08	0.73	10.57	28.96	nr	n/a	n/a	n/a	n/a	nr
Dec-08	48.5	0.69	6.59	13.55	nr	n/a	n/a	n/a	n/a	nr
Jan-09	52.72	0.85	8.82	17.17	368.9 **	n/a	n/a	n/a	n/a	138.9
12 month maximum	82.18	2.82	14.67 *	29	368.9	n/a	n/a	n/a	0	138.9

All data is reported on a ppmv dry basis corrected to 11% O2

n/a Not applicable - Engines have not run for 24 hrs

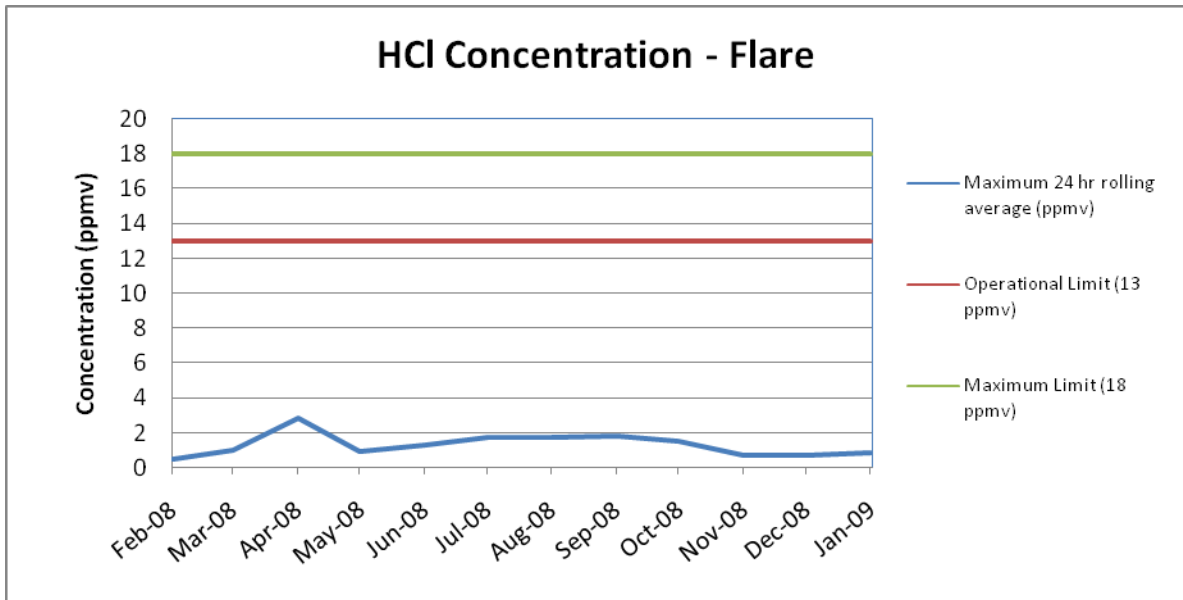
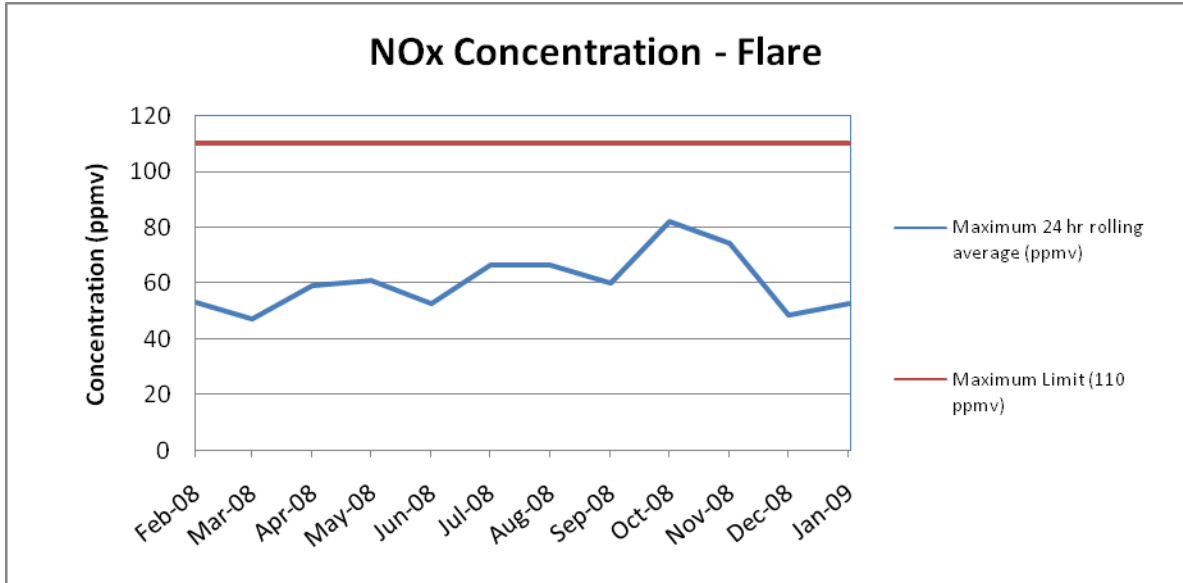
nr Not recorded - 10 minute averages not previously documented.

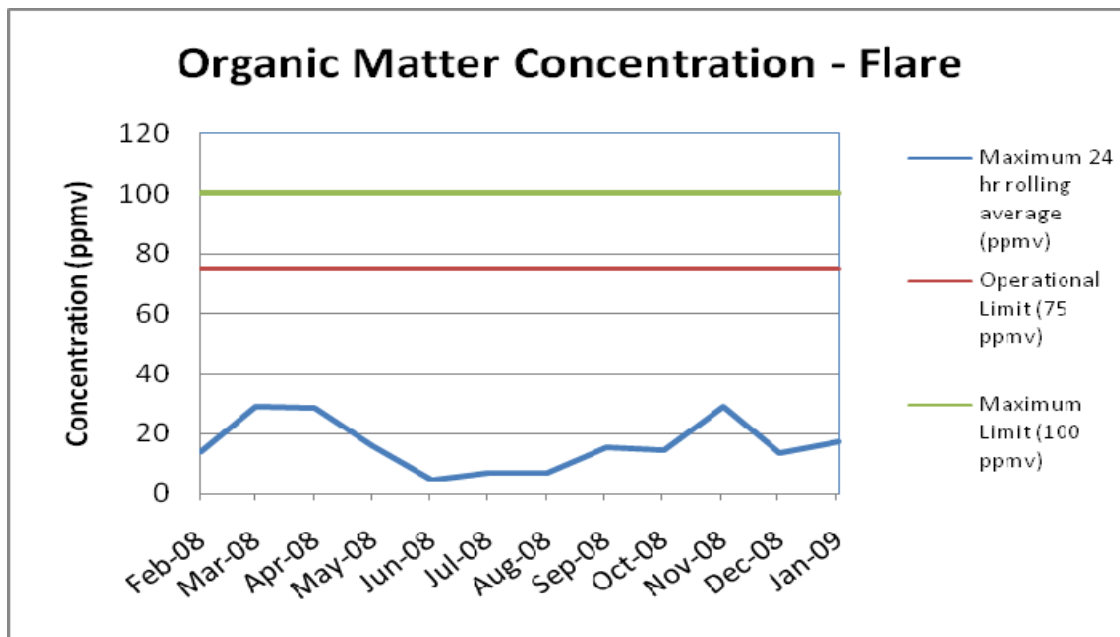
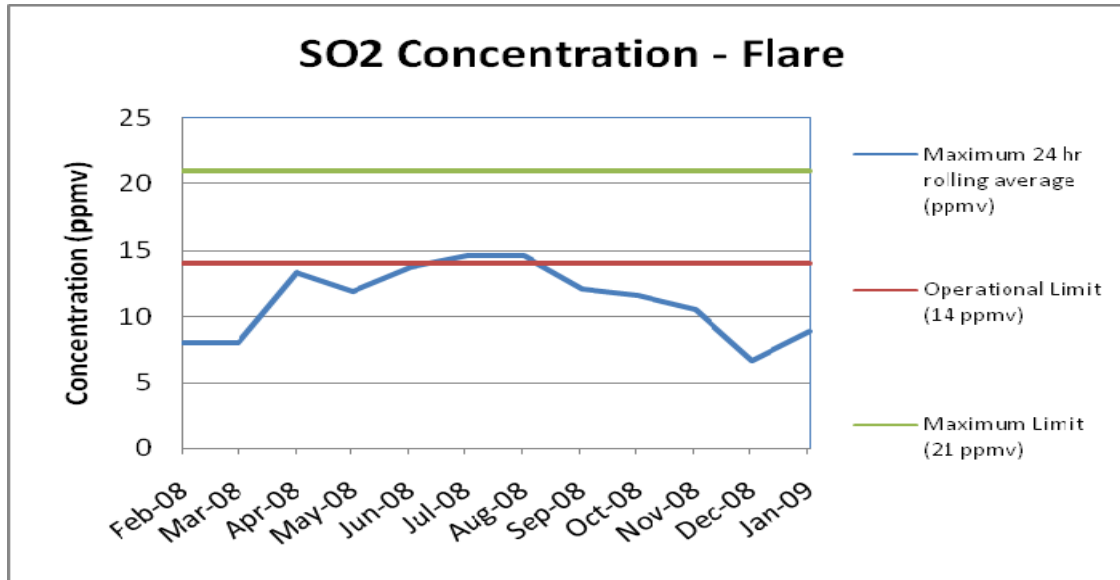
* Cessation of discharge incident (July 15, 2008)

+ No change to CEMS results - Plant maintenance shutdown.

** Maximum 10 minute average for Organic Matter for January = 368.9 ppm (Maximum limit exceeded January 7 & 11, 2009).

*** Program approval for organic matter emissions from the engines in effect from December 1, 2008 to March 31, 2009.





Emissions from the Plasco Trail Road Facility remain below the operational and maximum limits set out in O.Reg 254/06 and Certificate of Approval (Air) #6925-6REN9E. Concentrations of NOx at the flare are well below the maximum limit of 110 ppm. Concentrations of HCl at the flare are also well below the approved operational and maximum limits. Two exceptions are notable – SO2 emission concentrations in July 2008, as a result of the Cessation of Discharge incident, and organic matter emissions at the flare in January 2009. Concentrations for SO2 at the flare exceeded the operational limit of 14 ppm, leading to a Cessation of Discharge incident, as per Condition 7(4). The cause of the incident was investigated and rectified. Daily organic matter concentrations are also historically below the operational and maximum limits. The reporting of ten (10) minute rolling average concentrations

for organic matter began for the January 2009 Monthly Engineer's report. There were two (2) occasions in January 2009 when the 10 minute average concentration of organic matter exceeded the maximum limit. Frozen equipment resulted in high organic matter concentrations at the flare. Each incident was resolved within approximately 20 minutes.

3.6 SOURCE TESTING

No official compliance source testing was completed during the first year of operation at the Plasco Trail Road Facility; therefore no official notification of source testing was submitted to the Ministry of the Environment. Process operations were not at steady-state for the majority of the first year nor was throughput near design levels. A back-up flare was installed for use as an alternative to the initially installed and underperforming flare. A permanent flare solution was designed and delivery/commissioning of the permanent flare was expected to occur in October 2008, but was delayed due to supplier issues until March 2009.

Stratification testing has regularly been conducted on the flare as part of the tuning of the equipment. Preliminary source testing was completed on two (2) days in June 2008. The purpose was to test flow stratification on the flare and determine parametric set points for future compliance testing. An initial test-protocol was accepted by the MOE on September 5, 2007. Another pre-test plan for source testing was submitted to the MOE on April 22, 2008. Compliance source testing was scheduled for June 2008, but did not occur due to the lack of end-to-end reliability required to run for a sufficient length of time to conduct a full source test. Source testing was again anticipated to begin in November 2008, but was postponed due to a delay in the delivery of the permanent flare and the commissioning of the Carbon Recovery Vessel.

3.7 EMISSION MONITORING PROGRESS

As discussed earlier, preliminary source testing was completed in June 2008. Three (3) Cylinder Gas Audits (CGA) and System Response tests were conducted in the first year of operation. Preliminary drift testing was conducted on the Continuous Emission Monitoring System on January 7, 2009. Compliance source testing was unable to be completed due to equipment malfunctions and difficulty in achieving steady state operation for the process. The feed system was modified numerous times and the Carbon Recovery Vessel (CRV) was installed in October 2008.

4.0 ENVIRONMENTAL AND OPERATIONAL UPDATE

4.1 CHRONOLOGY OF PLASCO'S FIRST YEAR OF OPERATION

The Plasco Trail Road Facility's first annual period of operation included many successes and process/site improvements. The chronology of that first year is listed below.

- January 2008
 - January 24, 2008 – Municipal solid waste (MSW) first received at the Plasco Trail Road Demonstration Facility.
 - January 25, 2008 – MSW first processed.
 - Addition of ash storage area
 - Addition of slag chamber feed hopper
 - Addition of carbon beds for HCl blowdown
 - Relocated ash screw conveyor
- February 2008
 - February 18, 2008 – Engines run on MSW syngas for the first time.
- March 2008
 - Installation of rental/alternate John Zink flare
- April 2008
- May 2008
- June 2008
- July 2008
- August 2008
- September 2008
 - Modifications to sulphur removal system
 - Reconfigured feed network
 - Modifications to conversion chamber material movement system
 - Construction begins on Visitor Centre, Administration Building, Ash Storage Building, MSW Annex
- October 2008
 - Installation of Carbon Recovery Vessel (CRV)
 - Reconfigured feed network (continued)
 - Installation of Carbon Bed bypass – during start-up, shutdown & maintenance
 - Installation of Baghouse bypass – during start-up & shutdown
 - Installation of oxidation catalyst on the exhaust of Engine #3
 - Modifications to sulphur removal system (continued)
 - Modifications to conversion chamber material movement system (continued)
- November 2008
 - Commissioning of CRV
 - Installation of Wastewater Treatment System
 - Modifications to conversion chamber material movement system (continued)

- December 2008
 - Construction complete on MSW Annex, Ash Storage Building
 - Modifications to Slag Granulation system – back to screwfeeder system
 - Extended permits for rental flare – permanent flare not yet delivered.
- January 2009
 - Construction complete on Visitor Centre, Administration Building

4.2 ENVIRONMENTAL

The following environmental factors have influenced progress at Plasco Trail Road:

The original design for the process did not make provisions for handling ash when the melter was unavailable. When the melter was shown to be inadequate, ash bins were used to move converter ash from the bottom of the converter into storage in the MSW building. In the Fall of 2008, the ash building was constructed to improve the ash handling method. The ash building was available for use in November 2008. Within the building, the ash is segregated into four (4) bunkers. The north side is dedicated to the handling and cooling of converter ash (inert) and the south side bays are dedicated to the handling and cooling of baghouse ash.

On July 15, 2008 the Plasco Trail Road Demonstration Facility experienced a Cessation of Discharge incident related to SO₂ emissions at the flare. The SO₂ incident was reported to the MOE and the cause was investigated. Corrective actions were undertaken, including the implementation of a bypass for the carbon bed to be used under specific circumstances (start-up, shutdown, maintenance).

Carbon Bed Bypass: On nine (9) dates in December 2008, January 2009 and February 2009, the activated carbon bed filter was bypassed during gasification. The incidents in December 2008 and January 2009 were caused by the carbon bed filter exit valve freezing. When the valve froze, it became impossible to flow Syngas through the carbon bed and the bypass opened. The alarms to alert operations staff to the bypass of the carbon bed were malfunctioning- the issue has since been corrected.

Wastewater Spill: On January 1, 2009 a spill was registered from a frozen pipe connected to the liquid waste sump, located at the northwest corner of the MSW Building. The liquids froze very quickly upon release. The frozen liquids were collected from the asphalt and deposited in a lugger bin for characterization and disposal. Heat tracing was placed on the pipe to prevent future incidents.

MSW Storage Limit: The maximum waste holding time of 72 hours was exceeded on January 15, 2009. Waste received on January 12, 2009 was returned to the Trail Road Landfill Facility on January 16, 2009. An amendment application to adjust the MSW storage limits has since been submitted to the Ministry of the Environment.

Organic Matter at the Flare: On January 7, 2009 and January 11, 2009 emissions at the flare exceeded the maximum limit for organic matter. A frozen propane control valve caused the exceedance on January 7, 2009. A frozen igniter was the cause of the exceedance on January 11, 2009. Each incident was resolved within approximately 20 minutes.

4.3 OPERATIONAL

The Plasco Trail Road facility is the first of its kind. Each day brings another day of operational experience, and as the year progressed, operations became more and more confident in the operation of the facility.

Throughout the year, a number of operational factors were identified and solved. They include the following:

- High temperature excursions caused a need to change bag house filters more frequently than was initially planned. After an analysis of the equipment and process data, the shutdown procedure was modified to ensure that the level of oxygen passing through the baghouse was minimized until all the ash residue had been evacuated from the vessel. A preheat and post shutdown bypass around the bag house was installed in August/September 2008.
- Due to the extensive and continued failure of the feed system to maintain uninterrupted flow to the converter, Plasco removed the original screw conveyor and added a drag conveyor in an attempt to maintain better feed flow while the feed system was being redesigned and replacement equipment purchased. Several modifications were made during this period to attempt to maintain better process flow until the system was finally relocated and modified to include better sized equipment and flow layout. The new equipment has been installed and functions reliably. No process interruptions have occurred as a result of the new feed system since its installation.
- Due to material movement issues, changes were made to the internal configuration of the feed chute within the converter to allow higher MSW piles for better gas quality. In addition, ongoing trials continue to test different materials of construction on the air boxes to prolong the operational life of the equipment.
- Plugging of the activated carbon bed filter caused a need to change carbon more frequently than originally expected. During the initial commissioning of the facility using surrogate material, it was determined that the ash transfer and removal system was inadequately sized to handle the volume and residual size of the converter ash without frequent plugging. A larger drag chain conveyor, which functions better than the original screw conveyor configuration, was designed and installed. The drag chain conveyor was subsequently extended to accommodate the need to feed the residual converter ash to the Carbon Recovery Vessel (CRV).
- The operation of the originally purchased enclosed flare from Bekaert was difficult to commission and required a significant amount of daily maintenance on the flame arrestors and other components to keep it functional. Efforts continued to keep it running and functional before the decision was made to replace it with the alternate/rental John Zink flare for which installation was approved under Amendment Notice No. 2 to Certificate of Approval (Air) #6925-6REN9E.

Reliability & Safety Improvements

Improvements were made to address the reliability and safety of both the facility and the process over the course of the first year of operation. These improvements include:

- The entire fuel feed system to the converter was redesigned, incorporating the decoupling of the preparation equipment from the delivery equipment and the relocation of the entire system into the MSW building.
- A shredding/preparation line was created independent of the delivery equipment, eliminating choke points and removing what had been frequent single point sources of failure. The new equipment is larger and better able to handle the variable and difficult characteristics of the feedstock.
- A vibratory feeder was added to the redesigned MSW feed system for uniform distribution and delivery of the fuel to the converter.
- The steep drag chain on the feed system was replaced by a shallow-angle belt large enough to handle the required feed volume.
- The high carbon feed system was moved inside its own enclosed building.
- The level of the MSW feed was raised by installing a baffle inside the converter for a better air seal improving the gas quality and minimizing tramp air leakage into the gasification chamber.
- Experiments with the air box design continue in an effort to perfect our gasification efficiency and improve the longevity of these components.
- The ash extractor screw was strengthened.
- A bypass was installed in October 2008 on the baghouse for use in startup and shutdown procedures in order to protect the bags.
- A bypass was installed on the activated carbon bed filter for use during startup, shutdown and maintenance situations – installed October 2008.
- The original evacuation hopper under the bag house became a choke point for ash flowing into the collection bins during bag cleaning pulsing events. Despite the addition of vibrators and nitrogen cannons, the material flow was sluggish, unreliable and sometimes problematic from a personnel safety perspective. The original hopper was replaced with a live bottom that continuously evacuates the ash from the bottom of the vessel utilizing continuously operating screws.
- Piping, valves, and bins were installed between the carbon recovery vessel (CRV), baghouse, and converter to allow independent operation of the CRV and converter.
- The potential for single-point failures due to emergency shut-downs from faulty instrumentation were reduced.

Process Improvements

A number of improvements to the process were implemented during the reporting period. Those improvements include the following:

- The installation of the carbon recovery vessel (CRV) and its subsystems in October 2008 proved to have very encouraging results with respect to gas quality. (Not only CO, but also H₂ in gas). The hot gas generator and vessel configuration will yield a number of patents and proprietary intellectual property. The CRV produces vitrified, granular slag in large quantities.
- An internal gas mixer was installed in the top of the conversion chamber.

- A higher bed height was implemented in the conversion chamber.
- A mixer was added in the syngas storage tank.

Permanent Facility Improvements

In addition to the process and reliability and safety improvements implemented in the first year of operation, Plasco chose to improve the facility itself by adding a number of permanent structures.

- The ash storage building
- The Visitor Centre
- The Administration
- The high carbon feed (HCF) building (otherwise known as the MSW Annex)
- The Maintenance building is scheduled for construction in the spring of 2009.

5.0 REPORTING CHANGES

An updated Emergency Response Plan (141-SOP-1029 RevA) was submitted to the Ministry of the Environment, City of Ottawa and Fire Department on December 5, 2008. An updated DOR has been submitted to the MOE as supporting documentation for a Certificate of Approval (Waste) amendment application, dated March 9, 2009.

A Closure Plan was submitted to the MOE on April 3, 2007 as per Condition 67 of Provisional Certificate of Approval #3166-6TYMDZ (December 1, 2006). The Closure Plan has not been updated.

The Design and Operations report has been updated several times since MSW was first received at the Plasco Trail Road facility.

- December 2007 (resulting in CofA #3166-6TYMDZ Amendment No. 2 – issued January 28, 2008).
- June 2008 (resulting in CofA #3166-6TYMDZ Amendment No.3 – issued July 31, 2008).
- November 2008 (resulting in CofA #3166-6TYMDZ Amendment No. 4 – issued December 9, 2008).

The Emission Summary & Dispersion Modelling Report has also been updated in the first year of operations.

- August 2008 – resulting in CofA #6925-6REN9E Amendment No. 4- issued October 24, 2008).
- November 2008 – resulting in CofA #6925-6REN9E Amendment No. 5 – issued December 2, 2008).

6.0 SUMMARY OF COMPLAINTS

During the first year of operation, no complaints have been received by Plasco Trail Road staff with regard to odours, dust and litter. The daily shift and site rounds inspections by plant staff are beneficial in highlighting operational concerns in order to eliminate potential nuisance issues.

In event that complaints were received, they would be documented and reported according to Condition 55 of the Provisional Certificate of Approval (Waste) #3166-6TYMDZ.

7.0 RECOMMENDATIONS

Upon review of the first year of operation (January 24, 2008 – January 24, 2009), Plasco Trail Road Inc. presents the following recommendations:

- The waste defined as part of Section 7(b) of the Plasco Regulation (O.Reg 254/06) include industrial, commercial, institutional (ICI) waste that would otherwise have been disposed of within the boundaries of the City of Ottawa, in addition to the high carbon feed currently permitted.
- The maximum number of truckloads of waste that may be received at the Plasco Trail Road site be increased from 15 truckloads per day to 25 truckloads per day.
- The permitted timeframe within which MSW received at the Site must be utilized be increased to 96 hours from the currently permitted timeframe of 72 hours.
- The permitted timeframe for the removal of waste for disposal during emergency situations, mechanical failure or process upsets be changed to 72 hours from the currently permitted 48 hours.
- Plasco Trail Road investigates the possibility of drying the MSW to reduce the moisture content in the feed, thereby reducing the volume of wastewater produced.
- The slag be carefully studied to determine the plausibility/possibility of turning it into a commercial product, rather than a waste.
- The Plasco Trail Road Facility be regulated on emissions of non-methane volatile organic carbon (NMVOC) rather than total organic carbon (TOC).

Appendix I

Report Section:		3.1	3.4	3.3	3.2: Note that no waste was refused unless otherwise stated	
Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
24-Jan-08	MSW	7.31				First MSW Received
24-Jan-08	MSW	8.63	4	11.94		
25-Jan-08	MSW	4.18		16.12		
28-Jan-08	MSW				16.12	
31-Jan-08	MSW	10.82		26.19		
31-Jan-08	MSW	7.89				
31-Jan-08	MSW	7.48				

Report Section:		3.1	3.4	3.3	3.2: Note that no waste was refused unless otherwise stated	
Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
1-Feb-08	MSW			14.0		
2-Feb-08	MSW			14.0		
3-Feb-08	MSW			14.0		
4-Feb-08	MSW			0.0	14.44	
5-Feb-08	MSW	7.20		7.2	0.00	
5-Feb-08	MSW	11.50		18.7	0.00	
5-Feb-08	MSW	6.70		25.4	0.00	
6-Feb-08	MSW	10.06		35.5	0.00	
6-Feb-08	MSW	6.20		41.7	0.00	
7-Feb-08	MSW	10.15	18.0	33.8	0.00	
8-Feb-08	MSW	0.00		0.0	33.84	
8-Feb-08	MSW			0.0	33.84	
9-Feb-08	MSW			0.0		
10-Feb-08	MSW			0.0		
11-Feb-08	MSW			0.0		
12-Feb-08	MSW			0.0		
13-Feb-08	MSW	9.67		9.7		
13-Feb-08	MSW	9.26		18.9		
14-Feb-08	MSW	9.05		28.0		
15-Feb-08	MSW			25.5	2.45	
15-Feb-08	MSW	9.25		34.8	0.00	
15-Feb-08	MSW	7.07		41.9	0.00	
15-Feb-08	MSW			37.7	4.15	
15-Feb-08	MSW			33.6	4.09	
15-Feb-08	MSW			27.9	5.74	
15-Feb-08	MSW			25.7	2.17	
16-Feb-08	MSW			25.7		
17-Feb-08	MSW			25.7		
18-Feb-08	MSW		18.1	0.0	7.56	
19-Feb-08	MSW			0.0		
20-Feb-08	MSW			0.0		
21-Feb-08	MSW			0.0		
22-Feb-08	MSW	9.07	9.0	0.0	0.00	
26-Feb-08	MSW	9.11		7.5	1.63	
26-Feb-08	MSW	8.54		16.0		
26-Feb-08	MSW	9.51		25.5		
27-Feb-08	MSW		7.5			
29-Feb-08	MSW				18.02	

Report Section:		3.1	3.4	3.3	3.2: Note that no waste was refused unless otherwise stated	
Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
Feb 29 - March 6, 2008	MSW					Shut-down for maintenance
13-Mar-08	MSW	9.45	0	9.45		Maintenance Shutdown and Cold Testing
14-Mar-08	MSW				5.21	
14-Mar-08	MSW				4.81	
14-Mar-08	MSW	4.54	0	13.99		
17-Mar-08	MSW				1.97	
17-Mar-08	MSW				4.35	
17-Mar-08	MSW	8.06				
17-Mar-08	MSW	7.81				
17-Mar-08	MSW	5.11		20.98		
18-Mar-08	MSW		7.79	13.19		
20-Mar-08	MSW				13.19	
25-Mar-08	MSW	8.05		8.05		
26-Mar-08	MSW	10.51		18.56		
27-Mar-08	MSW	2.35	18.56	2.35		
27-Mar-08	MSW	35.07		37.42		
27-Mar-08	MSW	5.89		43.31		
28-Mar-08	MSW		11.53		4.37	
28-Mar-08	MSW				3.69	
29-Mar-08	MSW				6.33	
29-Mar-08	MSW				6.3	
29-Mar-08	MSW				3.99	
29-Mar-08	MSW				3.84	
29-Mar-08	MSW				3.26	

Report Section:		3.1	3.4	3.3	3.2: Note that no waste was refused unless otherwise stated	
Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
1-Apr-08	MSW	10.16		10.16		
1-Apr-08	MSW	9.91		20.07		
1-Apr-08	MSW	11.76		31.83		
2-Apr-08	MSW	32.33	15	49.16		
3-Apr-08	MSW	0	34	34.16		
4-Apr-08	MSW	32.2	5.63	26.57		
5-Apr-08	MSW				4.56	
5-Apr-08	MSW				1.07	
7-Apr-08	MSW				5.75	
7-Apr-08	MSW				5.38	
7-Apr-08	MSW			15.44		
7-Apr-08	MSW	10.71				
7-Apr-08	MSW	4.02	29.73			
8-Apr-08	MSW			0		
8-Apr-08	MSW	34.74				
8-Apr-08	MSW	7.88	0.13	42.62		
9-Apr-08	MSW					
10-Apr-08	MSW				6.09	
10-Apr-08	MSW				5.37	
10-Apr-08	MSW				5.66	
10-Apr-08	MSW				4.95	
10-Apr-08	MSW				4.85	
10-Apr-08	MSW				5.65	
10-Apr-08	MSW				5.97	
10-Apr-08	MSW			0	3.95	
11-Apr-08	MSW	7.34				
11-Apr-08	MSW	8.45		15.79		
14-Apr-08	MSW			15.79		
14-Apr-08	MSW	8.96		24.75		
14-Apr-08	MSW	10.82		35.57		
14-Apr-08	MSW	12.18		47.75		
14-Apr-08	MSW		32.75	15		
15-Apr-08	MSW	35.39		50.39		
15-Apr-08	MSW		18.31			
16-Apr-08	MSW				7.7	
16-Apr-08	MSW				5.64	
16-Apr-08	MSW				2.95	
22-Apr-08	MSW	9.64		9.64		
23-Apr-08	MSW	34.75		44.39		
24-Apr-08	MSW	32.68		32.68		
25-Apr-08	MSW			19.98		
26-Apr-08	MSW				5.37	
26-Apr-08	MSW				3.7	
26-Apr-08	MSW				6	
26-Apr-08	MSW				4.91	
29-Apr-08	MSW	32.7		32.7		
30-Apr-08	MSW	7.88		7.88		
30-Apr-08	MSW	31.56		39.44		
30-Apr-08	MSW			35.34	4.1	
30-Apr-08	MSW			30.45	4.89	
30-Apr-08	MSW			24.66	5.79	
30-Apr-08	MSW			19.15	5.51	
30-Apr-08	MSW			12.85	6.3	
30-Apr-08	MSW			6.6	6.25	
30-Apr-08	MSW			1.14	5.46	
2-May-08	MSW			0	1.67	
2-May-08	MSW		32.17	0	5.9	
3-May-08	MSW	33.53				

Report Section:		3.1	3.4	3.3	3.2: Note that no waste was refused unless otherwise stated	
Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
5-May-08	MSW	8.4				
5-May-08	MSW	8.46				
5-May-08	MSW	12.4				
6-May-08	MSW	9.6				
6-May-08	MSW	33.6	33.47			
8-May-08	MSW			3.76		
8-May-08	MSW			6.61		
8-May-08	MSW			6.21		
8-May-08	MSW			5.58		
8-May-08	MSW			5.55		
8-May-08	MSW			5.9		
8-May-08	MSW			5.38		
15-May-08	MSW	5.42		5.42		
17-May-08	MSW		0		5.67	
20-May-08	MSW	9.01				
20-May-08	MSW	34.16				
20-May-08	MSW	35		78.17		
21-May-08	MSW			78.17	6.16	
21-May-08	MSW				4.13	
21-May-08	MSW				6.23	
21-May-08	MSW				5.62	
21-May-08	MSW				6.68	
21-May-08	MSW			53.66	6.49	
23-May-08	MSW			0	6.37	
23-May-08	MSW				6.33	
23-May-08	MSW				5.65	
24-May-08	MSW	31.92		31.92		
26-May-08	MSW			31.92		
26-May-08	MSW	35.78		40		
27-May-08	MSW	10.81		20		
28-May-08	MSW	5.78				
29-May-08	MSW					
30-May-08	MSW				3.93	

Report Section:		3.1	3.4		3.3	3.2: Note that no waste was refused unless otherwise stated
Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
2-Jun-08	MSW	11.73		11.73		
3-Jun-08	MSW	32.04		43.77		
4-Jun-08	MSW	32.64				
5-Jun-08	MSW	10.04				
5-Jun-08	MSW	11				
5-Jun-08	MSW				3.31	
5-Jun-08	MSW				3.45	
5-Jun-08	MSW				3.86	
5-Jun-08	MSW				5.53	
9-Jun-08	MSW	39.15	40			
9-Jun-08	MSW	6.65				
9-Jun-08	MSW	7.35				
9-Jun-08	MSW	7.17				
9-Jun-08	MSW	5.2	65.52	0		
10-Jun-08	MSW	30.73				
10-Jun-08	MSW	32.73		30		
10-Jun-08	MSW				3.84	
11-Jun-08	MSW		96.25	30		
12-Jun-08	MSW				2.95	
12-Jun-08	MSW				2.03	
12-Jun-08	MSW		100	30	5.42	
14-Jun-08	MSW				6.2	
14-Jun-08	MSW				6.4	
14-Jun-08	MSW			30	5.57	
14-Jun-08	MSW				1.14	
16-Jun-08	MSW	32.7				
17-Jun-08	MSW	34.99				
18-Jun-08	MSW	6.91				
19-Jun-08	MSW				2.84	
19-Jun-08	MSW				3.09	
19-Jun-08	MSW				3.29	
20-Jun-08	MSW				5.87	
20-Jun-08	MSW				6.62	
23-Jun-08	MSW	9.85			9.85	
26-Jun-08	MSW	10.6			20.45	
	MSW					
	MSW					
	MSW					
30-Jun-08	MSW	33.69				

Report Section:		3.1	3.4	3.3	3.2: Note that no waste was refused unless otherwise stated	
Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
30-Jun-08	MSW	33.69				
3-Jul-08	MSW	35.1				
3-Jul-08	MSW					
3-Jul-08	MSW					
3-Jul-08	MSW					
3-Jul-08	MSW					
3-Jul-08	MSW					
3-Jul-08	MSW					
4-Jul-08	MSW	10.64				
4-Jul-08	MSW	11.78				
4-Jul-08	MSW	10.47				
4-Jul-08	MSW					
4-Jul-08	MSW					
4-Jul-08	MSW					
4-Jul-08	MSW					
5-Jul-08	MSW		51.13			
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7-Jul-08	MSW	33.33				
7-Jul-08	MSW	32.92				
7-Jul-08	MSW	11.32				
9-Jul-08	MSW	7.22				
9-Jul-08	MSW	13.83				
10-Jul-08	MSW				5.54	
10-Jul-08	MSW				4.87	
10-Jul-08	MSW				3.22	
10-Jul-08	MSW				1.08	
11-Jul-08	MSW	9.59				
11-Jul-08	MSW	9.58				
11-Jul-08	MSW	10.64				
11-Jul-08	MSW	10.58				
11-Jul-08	MSW	7.41				
11-Jul-08	MSW	11.17				
12-Jul-08	MSW				2.57	
12-Jul-08	MSW		83.91		2.97	
<hr/>						
11-Jul-08	MSW	58.97			5.54	
14-Jul-08	MSW	32.76				
14-Jul-08	MSW				5.78	
14-Jul-08	MSW				2.70	
14-Jul-08	MSW				6.04	
15-Jul-08	MSW				4.83	
15-Jul-08	MSW				6.52	
15-Jul-08	MSW				6.15	
15-Jul-08	MSW				6.1	
15-Jul-08	MSW				7.22	
15-Jul-08	MSW				5.95	
15-Jul-08	MSW		31.56		3.34	

Report Section:		3.1	3.4	3.3	3.2: Note that no waste was refused unless otherwise stated	
Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
Aug 1 - 3, 2008	MSW					Shut-down for maintenance
6-Aug-08	MSW	12.93				
8-Aug-08	MSW				5.9	
					5.34	
11-Aug-08	MSW	10.98				
13-Aug-08	MSW				5.9	
13-Aug-08	MSW				4.44	
18-Aug-08	MSW	35				

Report Section:		3.1	3.4	3.3	3.2: Note that no waste was refused unless otherwise stated	
Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
5-Sep-08	MSW	10.87		10.87		
Sept 8, 2008	MSW	10.12		0	10.87	
Sept 8, 2008	MSW	2.71			4.23	
Sept 8, 2008	MSW				0.8	
Sept 8, 2008	MSW				7.8	
Sept 11, 2008	MSW	5.92	0	0	0	
Sept 11, 2008	MSW	3.35			0.2	
Sept 11, 2008	MSW				2.61	
Sept 11, 2008	MSW				4.97	
Sept 11, 2008	MSW				1.49	
Sept 12, 2008	MSW	6.27	0		0	
Sept 12, 2008	MSW	6.2		12.47		
Sept 13, 2008	MSW			0	3.4	
Sept 13, 2008	MSW				2.19	
Sept 13, 2008	MSW				4.82	
Sept 13, 2008	MSW				2.06	
Sept 15/08	MSW	30		30		
Sept 15/08	MSW	30		60		
Sept 18/08	MSW		44.97		3.84	
Sept 18/08	MSW				5.54	
Sept 18/08	MSW				5.49	
Sept 18/08	MSW	35		35.41	0	
Sept 19/08	MSW	11			0	
Sept 19/08	MSW	14		60	0.00	
Sept 21/08	MSW			30.52	29.48	
Sept 22/08	MSW	8.72	0		0	
Sept 22/08	MSW	11.85	0		0	
Sept 22/08	MSW	13.33	0	18.45	0	
Sept 22/08	MSW				7.96	
Sept 22/08	MSW				7.2	
Sept 22/08	MSW				6.35	
Sept 22/08	MSW				7.21	
Sept 22/08	MSW				9.29	
Sept 22/08	MSW				7.96	
Sept 24/08	MSW				6.96	
Sept 24/08	MSW				6.5	
Sept 24/08	MSW				4.99	
Sept 24/08	MSW			0	0	
Sept 29/08	MSW	0	0	0	0	
Sept 30/08	MSW	0	0	0	0	

Report Section:		3.1	3.4	3.3	3.2: Note that no waste was refused unless otherwise stated	
Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
Sept 29/08	MSW	0	0	0	0	
Sept 30/08	MSW	0	0	0	0	
Oct 1/08	MSW	0	0	0	0	
Oct 2/08	MSW	13.68	0	13.68	0	
Oct 3/08	MSW	7.75	0	21.43	0	
Oct 3/08	MSW	8.85	0	30.28	0	
Oct 3/08	MSW	11.28	0	41.56	0	
Oct 3/08	MSW	10.75	0	52.31	0	
Oct 3/08	MSW	7.68	0	59.99	0	
Oct 3/08	MSW	3.17	0	63.16	0	
Oct 3/08	MSW	10.51	0	73.67	0	
Oct 4/08	MSW		27.07	46.6	0	
Oct 5/08	MSW		0	46.6	0	
Oct 6/08	MSW			41.55	5.05	
Oct 6/08	MSW			34.29	7.26	
Oct 6/08	MSW			27.9	6.39	
Oct 6/08	MSW			21.76	6.14	
Oct 6/08	MSW			15.75	6.01	
Oct 6/08	MSW			12.33	3.42	
Oct 6/08	MSW			8.33	4	
Oct 6/08	MSW			5.37	2.96	
Oct 6/08	MSW			0	5.37	
Oct 7/08	MSW	11.38		11.38		
Oct 9/08	MSW			0.29	6.78	
Oct 9/08	MSW				4.31	
Oct 13/08	MSW	0	0	0.29	0	
Oct 14/08	MSW	4.7		0	0	
Oct 14/08	MSW	7.08		0	0	
Oct 14/08	MSW	10.31			0	
Oct 14/08	MSW	12.13			0	
Oct 14/08	MSW	9.83			0	
Oct 14/08	MSW	11.21	55.55	0	0	
Oct 15/08	MSW	5.07			0	
Oct 15/08	MSW	3.06			0	
Oct 15/08	MSW	5.05			0	
Oct 15/08	MSW	4.76			0	
Oct 15/08	MSW	3.58	21.52	0	0	
Oct 16/08	MSW	10.17			0	
Oct 16/08	MSW	12.33				
Oct 16/08	MSW	11.22				
Oct 16/08	MSW	12.86				
Oct 16/08	MSW	10.38				
Oct 16/08	MSW	12.28				
Oct 16/08	MSW	11.84	24.9	50.76	5.42	
Oct 17/08	MSW			0	5.89	
Oct 17/08	MSW				5.61	
Oct 17/08	MSW				3.63	
Oct 17/08	MSW				6.09	
Oct 17/08	MSW				6.08	
Oct 17/08	MSW				7.16	
Oct 17/08	MSW				7.23	
Oct 17/08	MSW				7.27	
Oct 17/08	MSW			0	1.8	
Oct 18/08	MSW	9.89	0	0		
Oct 18/08	MSW	9.68		19.57		
Oct 19/08	MSW	0	0	19.57	0	
Oct 20/08	MSW	8.14		0	0	
Oct 20/08	MSW	11.64		0	0	
Oct 20/08	MSW	7.69			0	
Oct 20/08	MSW	10.66			0	
Oct 20/08	MSW	10.31				
Oct 20/08	MSW	11.29				
Oct 20/08	MSW	9.06	39.01	49.35	0	
Oct 21/08	MSW		0		4.64	
Oct 21/08	MSW				5.02	
Oct 21/08	MSW			36.93	2.76	
Oct 22/08	MSW		5.0916	30.74	1.1	
Oct 23/08	MSW	14	7.6374		7.27	
Oct 23/08	MSW	9.29			7.55	
Oct 23/08	MSW	9.83			7.62	
Oct 23/08	MSW	6.38			7.68	
Oct 23/08	MSW	11.909		38.68	5.71	
Oct 24/08	MSW				6.16	
Oct 24/08	MSW				4.56	
Oct 24/08	MSW				4.82	
Oct 24/08	MSW				4.94	
Oct 24/08	MSW				5.79	
Oct 24/08	MSW				7.26	
Oct 24/08	MSW			0	5.15	
Oct 25/08	MSW		0	0		
Oct 26/08	MSW	0	0	0	0	
Oct 27/08	MSW	0	0		0	
Oct 28/08	MSW	0	0		0	
Oct 29/08	MSW		0		0	
Oct 30/08	MSW		0		0	
Oct 31/08	MSW	3.3	0		0	
Oct 31/08	MSW	5.77	0	9.07	0	
Nov 1/08	MSW		0	9.07	0	
Nov 2/08	MSW		0	9.07	0	

Report Section:		3.1	3.4	3.3		3.2: Note that no waste was refused unless otherwise stated
Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
Nov 3/08	MSW	9.18				
Nov 3/08	MSW	8.24				
Nov 3/08	MSW	11.32				
Nov 3/08	MSW	5.77				
Nov 3/08	MSW	10.72				
Nov 3/08	MSW	10.62				
Nov 3/08	MSW	9.43				
Nov 3/08	MSW	7.25				
Nov 3/08	MSW	4.89				
Nov 3/08	MSW	3.13				
Nov 3/08	MSW	12.98				
Nov 4/08	MSW		23.07	79.53		
Nov 5/08	MSW		26.92	52.61	3.20	
Nov 5/08	MSW		16.67	25.23	2.63	
Nov 5/08	MSW				4.88	
Nov 6/08	MSW				8.75	
Nov 6/08	MSW				9.09	
Nov 6/08	MSW			0	7.39	
Nov 10/08	MSW	0	0	0	0	
Nov 11/08	MSW	0	0	0	0	
Nov 12/08	MSW	0	0	0	0	
Nov 13/08	MSW	10.81	0	10.81	0	
Nov 14/08	MSW	7.5	0			
Nov 14/08	MSW	11.08				
Nov 14/08	MSW	11.17				
Nov 14/08	MSW	10				
Nov 14/08	MSW	9.7				
Nov 14/08	MSW	11.51				
Nov 14/08	MSW	12.09				
Nov 14/08	MSW	10.28				
Nov 14/08	MSW	7.54				
Nov 14/08	MSW	8.05				
Nov 14/08	MSW	10.47				
Nov 14/08	MSW	8.71		138.89		
Nov 14/08	MSW	9.98		138.89		
Nov 15/08	MSW	0	0	138.89		
Nov 16/08	MSW	0	0	138.89		
Nov 17/08	MSW	8.56			6.35	
Nov 17/08	MSW	8.35			4.8	
Nov 17/08	MSW	10.15			3.43	
Nov 17/08	MSW	8.87			6.18	
Nov 17/08	MSW				5.06	
Nov 17/08	MSW				4.21	
Nov 17/08	MSW				6.31	
Nov 17/08	MSW				5.73	
Nov 17/08	MSW				5.89	
Nov 17/08	MSW				6	
Nov 17/08	MSW				5.71	
Nov 17/08	MSW				7.66	
Nov 17/08	MSW				4.14	
Nov 17/08	MSW		26.43	72.68	4.24	
Nov 18/08	MSW	10.5			6.28	
Nov 18/08	MSW	5.59			5.76	
Nov 18/08	MSW	11.02			5.51	
Nov 18/08	MSW	8.43			7.26	
Nov 18/08	MSW	2.55			6.78	
Nov 18/08	MSW	9.08			6.52	
Nov 18/08	MSW	10.25	55.15	32.09	4.76	
Nov 19/08	MSW	10.34				
Nov 19/08	MSW	9.2				
Nov 19/08	MSW	7.45				
Nov 19/08	MSW	11.39	3.45	67.02		
Nov 20/08	MSW		0	0	4.78	
Nov 20/08	MSW				5.12	
Nov 20/08	MSW				5.24	
Nov 20/08	MSW				6.22	
Nov 20/08	MSW				5.18	
Nov 20/08	MSW				5.98	
Nov 20/08	MSW				4.63	
Nov 20/08	MSW				5.32	
Nov 20/08	MSW				6.09	
Nov 20/08	MSW				6.17	
Nov 20/08	MSW				5.53	
Nov 20/08	MSW				6.76	
Nov 21/08	MSW		0		0	
Nov 22/08	MSW		0		0.00	
Nov 23/08	MSW		0		0.00	
Nov 24/08	MSW			0		
Nov 25/08	MSW	7.38		7.38		
Nov 26/08	MSW			7.38		
Nov 27/08	MSW	11.12				
Nov 27/08	MSW	6.2				
Nov 27/08	MSW	8.35				
Nov 27/08	MSW	8.47				
Nov 27/08	MSW	6.9				
Nov 27/08	MSW	7.88				
Nov 27/08	MSW	8.92		65.22		
Nov 28/08	MSW	9.21		158.52		
Nov 28/08	MSW	10.59				
Nov 28/08	MSW	9.68				
Nov 28/08	MSW	9.1				
Nov 28/08	MSW	7.98				
Nov 28/08	MSW	12.77				
Nov 28/08	MSW	11.34				
Nov 28/08	MSW	6.89				
Nov 28/08	MSW	11.2				
Nov 28/08	MSW	8.45				
Nov 28/08	MSW	6.63	10.54			
Nov 29/08	MSW		31.62	126.90		
Nov 30/08	MSW		36.89	90.01		

Report Section:		3.1	3.4	3.3	3.2: Note that no waste was refused unless otherwise stated	
Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
Dec 1 /08	MSW		3.51		5.10	
Dec 1 /08	MSW				3.36	
Dec 1 /08	MSW				6.86	
Dec 1 /08	MSW				6.57	
Dec 1 /08	MSW				8.2	
Dec 1 /08	MSW				6.24	
Dec 1 /08	MSW				5.71	
Dec 1 /08	MSW				5.99	
Dec 1 /08	MSW			32.23	6.24	
Dec 2 /08	MSW				6.97	
Dec 2 /08	MSW				7.17	
Dec 2 /08	MSW				5.66	
Dec 2 /08	MSW				6.39	
Dec 2 /08	MSW			0	6.04	
Dec 3 /08	MSW					
Dec 4 /08	MSW					
Dec 5 /08	MSW					
Dec 6 /08	MSW					
Dec 7 /08	MSW			0.00		
Dec 8 /08	MSW	10.32	0	10.32		
Dec 10 /08	MSW	7.73		40.39		
Dec 10 /08	MSW	10.12				
Dec 10 /08	MSW	12.22	0			
Dec 11 /08	MSW	6.72		40.49		
Dec 11 /08	MSW	4.25				
Dec 11 /08	MSW	3.35	14.22			
Dec 12 /08	MSW	3.82		54.96		
Dec 12 /08	MSW	6.58				
Dec 12 /08	MSW	8.29				
Dec 12 /08	MSW	8.71	12.93			
Dec 13 /08	MSW		0	54.96		
Dec 14 /08	MSW		0	54.96		
Dec 15 /08	MSW	7.8	20.68			
Dec 15 /08	MSW	11.18				
Dec 15 /08	MSW	9.51				
Dec 15 /08	MSW	10.52				
Dec 15 /08	MSW	9.19				
Dec 15 /08	MSW				5.66	
Dec 15 /08	MSW				4.41	
Dec 15 /08	MSW				5.16	
Dec 15 /08	MSW				5.09	
Dec 15 /08	MSW				5.75	
Dec 15 /08	MSW			52.34	4.07	
Dec 16 /08	MSW		10.34	41.99		
Dec 17 /08	MSW		0	41.99		
Dec 18 /08	MSW		6.46	15.06	4.97	
Dec 18 /08	MSW				5.29	
Dec 18 /08	MSW				5.38	
Dec 18 /08	MSW				4.83	
Dec 19 /08	MSW		0	0	4.97	Down for maintenance Dec 19 - Jan 6.
Dec 19 /08	MSW				4.98	
Dec 19 /08	MSW				5.11	
Dec 20 /08	MSW		0			
Dec 21 /08	MSW		0	0		
Dec 22 /08	MSW	0	0	0	0	
Dec 23 /08	MSW	0	0	0	0	
Dec 24 /08	MSW	0	0	0	0	
Dec 25 /08	MSW	0	0	0	0	
Dec 26 /08	MSW	0	0	0	0	
Dec 27 /08	MSW	0	0	0	0	
Dec 28 /08	MSW	0	0	0	0	
Dec 29 /08	MSW					
Dec 30 /08	MSW					
Dec 31 /08	MSW					
Jan 1 /08	MSW					
Jan 2 /08	MSW	7.5	0	7.5		
Jan 3 /08	MSW			7.5		
Jan 4 /08	MSW			7.5		

Report Section:		3.1	3.4	3.3		3.2: Note that no waste was refused unless otherwise stated
Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
Jan 5 /09	MSW			0		
Jan 5 /09	MSW					
Jan 6 /09	MSW	31.8				
Jan 6 /09	MSW	7.61				
Jan 6 /09	MSW	10.24				
Jan 6 /09	MSW	9.9		59.55		
Jan 7 /09	MSW	0	12	48	0	
Jan 8 /09	MSW	0	6	42	0	
Jan 9 /09	MSW	3.04		56	4.57	
Jan 9 /09	MSW	3.78			2.81	
Jan 9 /09	MSW	2.65			4.56	
Jan 9 /09	MSW	8.49			5.93	
Jan 9 /09	MSW	5.74			5.38	
Jan 9 /09	MSW	10.02			5.72	
Jan 9 /09	MSW	6.3			5.27	
Jan 9 /09	MSW	5.64			5.98	
Jan 9 /09	MSW	7.42			5.99	
Jan 9 /09	MSW	7.62				
Jan 10 /09	MSW	0	0	56	0	
Jan 11 /09	MSW	0	21	35	0	
Jan 12 /09	MSW	8.27	10			
Jan 12 /09	MSW	9.11				
Jan 12 /09	MSW	8.33				
Jan 12 /09	MSW	10.27		61.02		
Jan 13 /09	MSW			32.27	3.4	
Jan 13 /09	MSW				4.36	
Jan 13 /09	MSW				5.84	
Jan 13 /09	MSW				5.89	
Jan 13 /09	MSW				3.94	
Jan 13 /09	MSW				5.32	
Jan 14 /09	MSW	6.81		39.08		
Jan 15 /09	MSW	9.2	12	46.43		
Jan 15 /09	MSW	10.06				
Jan 16 /09	MSW		11		1.94	
Jan 16 /09	MSW				3.17	
Jan 16 /09	MSW				3.97	
Jan 16 /09	MSW				1.98	
Jan 16 /09	MSW				3.64	
Jan 16 /09	MSW				3.98	
Jan 16 /09	MSW				4.01	
Jan 16 /09	MSW				4.61	
Jan 16 /09	MSW				4.22	
Jan 16 /09	MSW			0	3.85	
Jan 17 /09	MSW	28.74	0	28.74		
Jan 18 /09	MSW		0	28.74		
Jan 19 /09	MSW	29.32	0	58.06	0	
Jan 20 /09	MSW	9.87			4.47	
Jan 20 /09	MSW	11.64				
Jan 20 /09	MSW	3.92			4.12	
Jan 20 /09	MSW				4.31	
Jan 20 /09	MSW				4.18	
Jan 20 /09	MSW				4.45	
Jan 20 /09	MSW				3.82	
Jan 20 /09	MSW				2	
Jan 20 /09	MSW		5	52		
Jan 21 /09	MSW	10.39				
Jan 21 /09	MSW	9.23				
Jan 21 /09	MSW	4.89				
Jan 21 /09	MSW	5.61	15.92	65.79		
Jan 22 /09	MSW				2.07	
Jan 22 /09	MSW				5.03	
Jan 22 /09	MSW				4.3	
Jan 22 /09	MSW				4.55	
Jan 22 /09	MSW				3.84	
Jan 22 /09	MSW				5.16	
Jan 22 /09	MSW				3.51	
Jan 22 /09	MSW				4.69	
Jan 22 /09	MSW		5.68	22.7	4.26	
Jan 23 /09	MSW	4.22			1.38	
Jan 23 /09	MSW				5.54	
Jan 23 /09	MSW				4.46	
Jan 23 /09	MSW				5.5	
Jan 23 /09	MSW			4.22	5.82	
Jan 24 /09	MSW			4.22		
Jan 25 /09	MSW			4.22		
Jan 26 /09	MSW	7.31			4.28	
Jan 26 /09	MSW	9.55				
Jan 26 /09	MSW	9.13				
Jan 26 /09	MSW	7.39		33.32		
Jan 27 /09	MSW	31.35	5	59.29		
Jan 28 /09	MSW		24	35.55		
Jan 29 /09	MSW				4.2	
Jan 29 /09	MSW				1.63	
Jan 29 /09	MSW				2.17	
Jan 29 /09	MSW				4.08	
Jan 29 /09	MSW				5.61	
Jan 29 /09	MSW				5.14	
Jan 29 /09	MSW				4.37	
Jan 29 /09	MSW				3.86	
Jan 29 /09	MSW			0	4.49	
Jan 30 /09	MSW	33.48				
Jan 30 /09	MSW	32.21		65.69		
Jan 31 /09	MSW		25.4	40.3		
Feb 1 /09	MSW		20.3	20		

Report Section: 3.1 3.4 3.3 3.2: Note that no waste was refused unless otherwise stated

Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
24-Jan	HCF	2.17	0	2.2	0	

Report Section:		3.1	3.4	3.3	3.2: Note that no waste was refused unless otherwise stated	
Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
24-Jan-08	HCF	2.17	0			
1-Feb-08	HCF		0.2	1.97		
2-Feb-08	HCF		0			
3-Feb-08	HCF		0			
4-Feb-08	HCF		0			
5-Feb-08	HCF		0			
6-Feb-08	HCF	6.34	0	8.3		
7-Feb-08	HCF		2	6.3	0	
8-Feb-08	HCF					
Feb 8 - 28, 2008	HCF	0	0	6.3	0	

Report Section:		3.1	3.4	3.3	3.2: Note that no waste was refused unless otherwise stated	
Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
Feb 29 - March 31 2008	HCF	0	0	6.3	0	

Report Section:		3.1	3.4	3.3	3.2: Note that no waste was refused unless otherwise stated	
Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
3-Apr-08	HCF	0	0	6.3	0	
4-Apr-08	HCF	0	0.5	5.8	0	
April 7 - 13, 2008	HCF	0	0	5.8	0	
16-Apr-08	HCF	5.62	0	11.4	0	
24-Apr-08	HCF	0	2	9.4	0	
30-Apr-08	HCF	0	1	8.4	0	

Report Section:		3.1	3.4	3.3	3.2: Note that no waste was refused unless otherwise stated	
Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
May 5 - June 1, 2008	HCF	0	0	8.4	0	

Report Section:		3.1	3.4	3.3	3.2: Note that no waste was refused unless otherwise stated	
Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
5-Jun-08	HCF	11.07	2	17.5	0	
10-Jun-08	HCF	0	3.5	14.0	0	
11-Jun-08	HCF	0	2	12.0	0	
12-Jun-08	HCF	0	1.5	10.5	0	
13-Jun-08	HCF	0	1	9.5	0	
17-Jun-08	HCF	0	1	8.5	0	
18-Jun-08	HCF	0	1	7.5	0	
June 23 - 29, 2009	HCF	0	0	7.5	0	
30-Jun-08	HCF	11.59	0	19.1	0	

Report Section:		3.1	3.4	3.3	3.2: Note that no waste was refused unless otherwise stated	
Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
30-Jun-08	HCF	11.59	0	19	0	
8-Jul-08	HCF	0	2	17	0	
9-Jul-08	HCF	0	2	15	0	
15-Jul-08	HCF	0	1	14	0	
16-Jul-08	HCF	0	1	13	0	
July 21 - 31 2008	HCF	0	0	13	0	

Report Section:		3.1	3.4	3.3	3.2: Note that no waste was refused unless otherwise stated	
Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
Aug 1 - 31 2008	HCF	0	0	13	0	

Report Section:		3.1	3.4	3.3	3.2: Note that no waste was refused unless otherwise stated	
Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
Sept 1 - 7 2008	HCF	0	0	13	0	
Sept 8 - 14 2008	HCF	0	0	13	0	
Sept 15 - 21 2008	HCF	0	0	13	0	
Sept 22 - 28 2008	HCF	0	0	13	0	
Sept 29 - 30 2008	HCF	0	0	13	0	

Report Section:		3.1	3.4	3.3	3.2: Note that no waste was refused unless otherwise stated	
Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
Sept 29 - Oct 5 2008	HCF	0	0	13	0	
Oct 6 - 12 2008	HCF	0	0	13	0	
Oct 13 - 19 2008	HCF	0	0	13	0	
Oct 20 - 26 2008	HCF	0	0	13	0	
Oct 27 - Nov 2 2008	HCF	0	0	13	0	

Report Section: 3.1 3.4 3.3 3.2: *Note that no waste was refused unless otherwise stated*

Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
Nov 3 - 9 2008	HCF	0	0	13	0	
Nov 10 - 16 2008	HCF	0	0	13	0	
Nov 17 - 23 2008	HCF	0	0	13	0	
Nov 24 - 30 2008	HCF	0	0	13	0	

Report Section:		3.1	3.4	3.3	3.2: Note that no waste was refused unless otherwise stated	
Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
Dec 1 - 7 2008	HCF	0	0	13	0	
Dec 12 /08	HCF	11.54				
Dec 12 /08	HCF	11.35	3	32.9	0	
Dec 15 /08	HCF		5.5	27.4		
Dec 16 /08	HCF		2.8	24.6		
Dec 18 /08	HCF	0	1.7	22.9	0	
Dec 22 /08	HCF		0	22.9		
Dec 23 /08	HCF		0	22.9		
Dec 24 /08	HCF		0	22.9		
Dec 25 /08	HCF		0	22.9		
Dec 26 /08	HCF		0	22.9		
Dec 27 /08	HCF		0	22.9		
Dec 28 /08	HCF	0	0	22.9	0	
Dec 29 2008 - Jan 4 2009	HCF	0		22.9	0	

Report Section:		3.1	3.4	3.3	3.2: Note that no waste was refused unless otherwise stated	
Date	Type	Amount Delivered (tonnes)	Amount Processed (tonnes)	Amount on Floor (tonnes)	Amount Returned (tonnes)	Comments
Jan 5 /09	HCF		22.9	22.9	0	
Jan 6 /09	HCF	11.12		34.02	0	
Jan 7 /09	HCF		3	31.02	0	
Jan 11 /09	HCF			31.02	0	
Jan 12 - 18 2009	HCF	0		31	0	
Jan 20 /09	HCF	0	0	31	0	
Jan 21 /09	HCF		1.5	29.5	0	
Jan 22 /09	HCF		1	28.5	0	
Jan 30 /09	HCF	0	0	28.5	0	
Jan 31 /09	HCF		3	25.5	0	
Feb 1 /09	HCF		3	22.5	0	

Appendix II

TABLE

Analysis Results - Slag TCLP

Schedule 4 contaminant	Units	Detection Limit	Lab ID	7500041-01	7500041-02	0806122-01	842016
			Plasco ID	Sample #1 Varying Conditions	Sample #2 High T	Slag from MSW	SC1
			Collection Date\ Max Allowable Concentration	10-Dec-07	10-Dec-07	06-Feb-08	5-Oct-08
Arsenic	mg/L	0.05	2.5	0.05	0.05	0.05	<0.05
Barium	mg/L	0.05	100	0.24	0.16	0.16	<0.05
Boron	mg/L	0.05	500	0.05	<0.05	0.06	<0.05
Cadmium	mg/L	0.01	0.5	0.01	0.01	0.01	<0.01
Chromium	mg/L	0.05	5	4.69	0.08	<0.05	0.87
Cyanide, free	mg/L	0.002	20	0.002	0.002	0.002	<0.002
Final pH	pH Units			4.9	4.86	5.02	4.96
Fluoride	mg/L	0.05	150	0.05	0.05	0.05	<0.05
Initial pH	pH Units			9.08	5.37	4.43	5.94
Lead	mg/L	0.05	5	0.05	0.05	0.05	0.39
Mercury	mg/L	0.005	0.1	0.005	0.005	0.005	<0.005
Nitrate as N	mg/L	1	1000	1	1	1	<1
Nitrite as N	mg/L	1		1	1	1	<1
Selenium	mg/L	0.05	1	0.05	0.05	0.05	<0.05
Silver	mg/L	0.05	5	0.05	0.05	0.05	<0.05
Uranium	mg/L	0.05	10	0.05	0.05	0.05	<0.05
1,1-Dichloroethylene	mg/L	0.0006	1.4	0.0006	0.0006	0.0006	
1,2-Dichlorobenzene	mg/L	0.0004	20	0.0004	0.0004	0.0004	
1,2-Dichloroethane	mg/L	0.0005	0.5	0.0005	0.0005	0.0005	
1,4-Dichlorobenzene	mg/L	0.0004	0.5	0.0004	0.0004	0.0004	
Benzene	mg/L	0.0005	0.5	0.0005	0.0005	0.0005	
Benzo[a]pyrene	mg/L	0.0001	0.001	0.0001	0.0001	0.0009	
Carbon Tetrachloride	mg/L	0.0005	0.5	0.0005	0.0005	0.0005	
Chlorobenzene	mg/L	0.0004	8	0.0004	0.0004	0.0004	
Chloroform	mg/L	0.0006	10	0.0006	0.0006	0.0006	
Methyl Ethyl Ketone (2-Butanone)	mg/L	0.03	200	0.03	0.03	0.03	
Methylene Chloride	mg/L	0.004	5	0.004	0.004	0.004	
Tetrachloroethylene	mg/L	0.0005	3	0.0005	0.0005	0.0005	
Trichloroethylene	mg/L	0.0004	5	0.0004	0.0004	0.0004	
Vinyl chloride	mg/L	0.0005	0.2	0.0005	0.0005	0.0005	
% Solids	% by Wt.	0.1		100	100	100	
2,3,4,6 Tetrachlorophenol	ug/L	2	10000			2	
2,4,5 Trichlorophenol	ug/L	1	400000			1	
2,4,6 Trichlorophenol	ug/L	1	500			1	
2,4 Dichlorophenol	ug/L	0.9	90000			0.9	
2,4 dinitrotoluene	ug/L	0.3	130			0.3	
2-methylphenol	ug/L	0.4	200000			0.4	
3-&4-methylphenol	ug/L	0.3	200000			0.3	
Nitrobenzene	ug/L	0.2	2000			0.2	
Pentachlorophenol	ug/L	0.4	6000			0.4	

TCLP Toxicity Characteristic Leaching Procedure

TABLE

Results Analysis - Carbon Bed TCLP

Schedule 4 contaminant	Units	Detection Limit	Lab ID	0809030-11
			Plasco ID	Carbon Bed
			Collection Date\ Max Allowable Concentration	25-Feb-08
Arsenic	mg/L	0.05	2.5	<0.05
Barium	mg/L	0.05	100	0.06
Boron	mg/L	0.05	500	0.12
Cadmium	mg/L	0.01	0.5	0.02
Chromium	mg/L	0.05	5	<0.05
Final pH	pH Units			5.37
Initial pH	pH Units			4.85
Lead	mg/L	0.05	5	0.22
Mercury	mg/L	0.005	0.1	<0.005
Selenium	mg/L	0.05	1	<0.05
Silver	mg/L	0.05	5	<0.05
Uranium	mg/L	0.05	10	<0.05
Benzo[a]pyrene	mg/L	0.0001	0.001	<0.0001
% Solids	% by Wt.	0.1		80.5

TCLP Toxicity Characteristic Leaching Procedure

Appendix III

TABLE Waste Shipment Summaries

Month	Waste Class Physical state Units	Converter Ash (tonnes)	Slag (tonnes)	WASTE TYPE													
				Acid Waste - Heavy Metals 112-C Liquid (tonnes)	Acid Waste - Heavy Metals 112-C Solid (tonnes)	Alkaline Waste - Heavy Metals 122-C Solid (tonnes)	Brines, Chlor- Alkali Wastes 133-T Liquid (tonnes)	Brines, Chlor- Alkali Wastes 133-T Solid (tonnes)	Other Specified Inorganics 146-L Liquid (tonnes)	Other Specified Inorganics 146-T Solid (tonnes)	Aromatic Solvents 211-H Solid (tonnes)	Aliphatic Solvents 212-H Liquid (tonnes)	Petroleum Distillates 213-I Liquid (tonnes)	Petroleum Distillates 213-H Solid (tonnes)	Waste Oil & Lubricants 252-L Liquid (tonnes)	Organic Laboratory Chemicals 263-C Liquid (tonnes)	
Feb-08		45	0	0	0	0	0	0	0	756.03	9.02	0	0	0	0	0	0
Mar-08		0	9	0	136.4	0	0	0	70.7	0.62	0.62	0	0	0	0	0.21	0
Apr-08		49.46	26.26	0	789.02	0	0	0	0	8.37	0	0	0	0	0	0	0
May-08		43	0	31.20	665.44	0	0	0	0	10.61	0	0	0	0	0	0	0
Jun-08		53	0.00	0	549.27	0	0	0	0	71.12	0	0	0	0	0	0	0
Jul-08		49	11.52	0	630.75	0	0	0	105	10.04	0	0	0	0	0	0	0
Aug-08		0	0.00	0	155.90	0.5	0	0	0	20	0	0	0	0	0	0	0
Sep-08		24	6.02	0	479.49	0.3	0	0	8	0	0	0	0	0	0	0	0
Oct-08		30	5.51	0.2	828.95	32.2	0	0	0	0	0	0	0	0	0	0.41	0
Nov-08		33	19.70	0.4	570.12	10	0	0	20	6	0	0	0	0	0	0	0
Dec-08		48	20.41	0	893.48	30	0	0	0	4.5	0	0	0	0	0	0	0
Jan-09		42	13.03	0	1131.90	20.65	0	0	0	0.5	0	0	0	0	0	0.07	0
12 month Average		38.08	9.31	3.13	602.56	7.80	0.01	0.01	83.31	11.73	0.05	0.19	0.08	1.39	0.06	0.00	0.00
12 month Total		456.90	111.76	37.60	7230.72	93.65	0.30	0.30	999.73	140.77	0.60	2.26	0.92	16.67	0.69	0.00	0.00

Note:
Converter Ash & Slag are sent to Trail Road Landfill Facility for disposal.
All other wastes are disposed of as hazardous waste.

Appendix IV

TABLE

Summary of Weekly CEMS Data

Week	Flare				
	24 hr rolling average				Max 10 min rolling average
	NOX	HCI	SO2	TOC	
Jan 24-31, 2008	28	0.2	11	3.3	nr
Feb 1-7, 2008	53	0.13	6	6	nr
Feb 8-14, 2008	nc	nc	nc	nc	nr
Feb 15-21, 2008	50	0.2	8	8	nr
Feb 22-28, 2008	41	0.5	7	14	nr
Feb 29-Mar 6, 2008	nc	nc	nc	nc	nr
Mar 7-16, 2008	nc	nc	nc	nc	nr
Mar 17-23, 2008	38	0.5	8	16	nr
Mar 24-30, 2008	47	1	6	26	nr
Mar 31-Apr 6, 2008	37	3	11	25	nr
Apr 7-13, 2008	37.57	1.91	10.36	10.67	nr
Apr 14-20, 2008	55.38	1.25	10.81	3.87	nr
Apr 21-27, 2008	46.2	0.65	11.5	18.97	nr
Apr 28-May 4, 2008	39.33	0.62	7.86	15.94	nr
May 5-11, 2008	49.29	0.42	8.57	6.93	nr
May 12-18, 2008	nc	nc	nc	nc	nr
May 19-25, 2008	nc	nc	nc	nc	nr
May 26-Jun 1, 2008	46.24	0.93	11.94	2.69	nr
Jun 2-8, 2008	41.93	1.27	10.6	2.11	nr
Jun 9-15, 2008	40.44	1.22	9.47	1.91	nr
Jun 16-22, 2008	36.21	1.05	8.1	4.48	nr
Jun 23-29, 2008	nc	nc	nc	nc	nr
Jun 30-Jul 6, 2008	27.53	1.4	8.62	6	nr
Jul 7-13, 2008	59.69	0.72	10.74	6.32	nr
Jul 14-20, 2008 *	60.46	1.19	14.33	6.14	nr
Jul 21-27, 2008	nc	nc	nc	nc	nr
Jul 28-Aug 3, 2008	nc	nc	nc	nc	nr
Aug 4-10, 2008	nc	nc	nc	nc	nr
Aug 11-17, 2008	nc	nc	nc	nc	nr
Aug 18-24, 2008	nc	nc	nc	nc	nr
Aug 25-31, 2008	nc	nc	nc	nc	nr
Sep 1-7, 2008	nc	nc	nc	nc	nr
Sep 8-14, 2008	nc	nc	nc	nc	nr
Sep 15-21, 2008	32.66	1.58	12.48***	8.28	nr
Sep 22-28, 2008	32.17	1.77	12.07	15.27	nr
Sep 29-Oct 5, 2008	48.23	0.73	7.34	7.44	nr
Oct 6-12, 2008	nc	nc	nc	nc	nr
Oct 13-19, 2008	73.42	0.45	11.23	9.15	nr
Oct 20-26, 2008	74.46	0.74	10.65	13.38	nr
Oct 27-Nov 2, 2008	nc	nc	nc	nc	nr
Nov 3-9, 2008	55.39	0.49	7.72	8.81	nr
Nov 10-16, 2008	nc	nc	nc	nc	nr
Nov 17-23, 2008	62.47	0.19	7.87	1.23	nr
Nov 24-30, 2008	47.35	0.22	5.02	1.88	nr
Dec 1-7, 2008	46.41	0.24	4.99	1.86	nr
Dec 8-14, 2008	44.63	0.32	6.59	1.79	nr
Dec 15-21, 2008	40.38	0.68	4.51	14.71	nr
Dec 22-28, 2008	nc	nc	nc	nc	nr
Dec 29, 2008-Jan 4, 2009	nc	nc	nc	nc	nr
Jan 5-11, 2009	43.89	0.51	5.13	14.44	368.28
Jan 12-18, 2009	51.32	0.32	7.82	1.35	27.56
Jan 19-25, 2009	46.78	0.26	7.34	0.87	1.65

nc - no change to CEMS values - process not running.

nr - not recorded

* Cessation of Discharge Incident occurred in the week of July 14-20, 2008