

**CLARK COUNTY**  
**DEPARTMENT OF AIR QUALITY AND**  
**ENVIRONMENTAL MANAGEMENT**  
*4701 West Russell Road, Suite 200, Las Vegas, Nevada 89118*  
**Part 70 Operating Permit**  
**Source: 395**  
Issued in accordance with the  
Clark County Air Quality Regulations (AQR)

**ISSUED TO:       REPUBLIC SERVICES, REPUBLIC DUMPCO, INC.**

**SOURCE LOCATION:**

Republic Dumpco, Inc.  
Apex Regional Landfill  
East of Interstate 15/US 93 Junction  
Apex Valley, Nevada  
T18S, R64E, Sections 18, 19 and 20  
T18S, R63E, section 13 and 24  
Hydrographic Basin Numbers: 216

**COMPANY ADDRESS:**

770 East Sahara Avenue  
Las Vegas, Nevada 89104

**NATURE OF BUSINESS:**

SIC Code 4953: Refuse System  
SIC Code 1442: Construction Sand and Gravel  
NAICS: 562212: Solid Waste Landfill  
NAICS: 212321: Construction Sand and Gravel Mining

**RESPONSIBLE OFFICIAL:**

Name:            Todd Whittle  
Title:            Area Environmental Manager  
Phone:           (702) 599-5537  
Fax Number:     (702) 599-5585

**Permit Issuance Date:**   December 31, 2010   **Expiration Date:**   December 30, 2015  
**Permit Revision Date:**   February 08, 2016

**ISSUED BY: CLARK COUNTY DEPARTMENT OF AIR QUALITY AND ENVIRONMENTAL MANAGEMENT**



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Richard D. Beckstead  
Permitting Manager, Clark County Department of Air Quality

## EXECUTIVE SUMMARY

Republic Dumpco, Inc. operates under SIC Codes 4953 – Refuse System and 1442 – Construction Sand and Gravel and NAICS Codes 562212 – Solid Waste Landfill and 212321 – Construction Sand and Gravel Mining. Apex Regional Landfill is located in Apex, East of interstate 15/US 93 Junction. The legal description of the source’s location is as follows: portions of T18S, R64E, Section 18, 19 and 20 and T18S, R63E, Section 13 and 24 in Garnet Valley, Clark County, Apex, Nevada. Apex Regional Landfill is situated in Hydrographic Areas 216 - Garnet Valley. Garnet Valley is designated as PSD for 8-hour ozone (regulated through NO<sub>x</sub> and VOC), PM<sub>10</sub>, CO, and SO<sub>2</sub>.

Apex Regional Landfill is a major Part 70 source for PM<sub>10</sub>, NO<sub>x</sub>, CO, SO<sub>x</sub> and a minor source for PM<sub>2.5</sub>, VOC, HAP and H<sub>2</sub>S. Apex Regional Landfill has served as the primary municipal solid waste landfill for Clark County since October of 1993. The types of material the landfill accepts includes municipal solid waste, petroleum contaminated soil, asbestos, construction debris, sewage sludge, septic waste, medical waste and dead animal waste. Apex Regional Landfill has a gas capture and collection system with an internal combustion enclosed combustion (Zule Zink Low Emission Flare) capable of burning at 136.605 MMBtu/hr or 5,000 cubic foot per minute (EU: W11). The landfill gas capture and collection system is designed to capture approximately 75 percent of the landfill gas generated, leaving approximately 25 percent as fugitive emissions. Apex Regional Landfill will control the SO<sub>2</sub> emissions from the enclosed combustion flare by having the landfill gas (LFG) go through a Paques THIOPAQ desulfurization system to remove H<sub>2</sub>S from the LFG prior to the LFG going to the enclosed combustion flare, which will reduce the SO<sub>2</sub> emissions from the flare stack. In order to expedite the evaporation process in the evaporation pond water, Apex Regional Landfill will use two Land Shark LS evaporation units to allow the water spray exiting the unit to remain suspended for evaporation.

An application for a significant revision to the Part 70 Operating Permit was submitted on August 8, 2014 and was processed in accordance with AQR 12.5 and 40 CFR 70 to include the new 1,920 scfm open landfill gas flare (EU: G27) into the Operating Permit.

The following table summarizes the source PTE for each regulated air pollutant for all emission units addressed by this Part 70 Operating Permit:

### Source-Wide PTE (tons per year)<sup>1</sup>

	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	CO	SO <sub>2</sub>	VOC	HAP	H <sub>2</sub> S
<b>Non-fugitive PTE</b>	275.06	17.58	93.99	113.14	126.65	22.32	1.58	0.44
<b>Landfill – Fugitive Emissions</b>	0.00	0.00	0.00	0.00	0.00	32.89	32.16	147.27
<b>Source PTE</b>	275.06	17.58	93.99 <sup>2</sup>	113.14	126.65	55.21	33.74	147.71

<sup>1</sup>Not a source-wide emission limit; values are used for determining the source status.

<sup>2</sup>The NO<sub>x</sub> emissions exceed 100 tons per year when insignificant emissions are included, as declared by the source

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## I. ACRONYMS

**Table I-1: Acronyms and Abbreviations**

Term	Description
Air Quality	Clark County Department of Air Quality
AQR	Clark County Air Quality Regulations
A/L	Air to Liquid Ratio
ATC	Authority to Construct
bhp	Brake Horse Power
°C	Degrees Celsius
CAAA	Clean Air Act, as amended
CARB	California Air Resources Board
CEMS	Continuous Emissions Monitoring System
CFR	United States Code of Federal Regulations
CO	Carbon Monoxide
EPA	United States Environmental Protection Agency
EF	Emission Factor
EO	Executive Order
EU	Emission Unit
EVR	Enhanced Vapor Recovery
°F	Degrees Fahrenheit
GDO	Gasoline Dispensing Operation
GPM	Gallons per Minute
HAP	Hazardous Air Pollutant
HP	Horse Power
H <sub>2</sub> S	Hydrogen Sulfide
kW	kilowatt
LANDGem	Landfill Gas Emissions Model
LFG	Landfill Gas
m <sup>3</sup> /yr	Cubic meter per year
Mg/yr	Megagram per year
MMBtu	Millions of British Thermal Units
MMscf	Million Standard Cubic Foot
M/N	Model Number
MSWL	Municipal Solid Waste Landfill
NAICS	North American Industry Classification System
NMOC	Non-Methane Organic Compounds
NO <sub>x</sub>	Nitrogen Oxides
NRS	Nevada Revised Statutes
OP	Operating Permit
PM <sub>2.5</sub>	Particulate Matter less than 2.5 microns
PM <sub>10</sub>	Particulate Matter less than 10 microns
ppm	Parts per Million
ppmvd	Parts per Million, Volumetric Dry

Term	Description
PTE	Potential to Emit
QA/AC	Quality Assurance/Quality Control
RMP	Risk Management Plan
SCC	Source Classification Codes
scf	Standard Cubic Feet
scfm	Standard Cubic Feet per minute
SIC	Standard Industrial Classification
SIP	State Implementation Plan
S/N	Serial Number
SO <sub>x</sub>	Sulfur Oxides
SSM	Startup, Shutdown, and Malfunction
TDS	Total Dissolved Solids
TCS	Toxic Chemical Substance
tpy	Tons per Year
TRS	Total Reduced Sulfur
VEE	Visible Emission Evaluation
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compound

Pursuant to AQR 12.5.2.7, all terms and conditions in Sections I through IV and the attachments in this operating permit are federally enforceable unless explicitly denoted otherwise.

## II. GENERAL CONDITIONS

### A. General Requirements

1. The Permittee shall comply with all conditions of the Part 70 Operating Permit. Any permit noncompliance may constitute a violation of the Clark County Air Quality Regulations, Nevada law, and the Clean Air Act, and is grounds for any of the following: enforcement action; permit termination; revocation and re-issuance; revision; or denial of a permit renewal application. *[AQR 12.5.2.6(g)(1)]*
2. If any term or condition of this permit becomes invalid as a result of a challenge to a portion of this permit, the other terms and conditions of this permit shall not be affected and shall remain valid. *[AQR 12.5.2.6(f)]*
3. The Permittee shall pay all permit fees pursuant to AQR Section 18. *[AQR 12.5.2.6(h)]*
4. The permit does not convey any property rights of any sort, or any exclusive privilege. *[AQR 12.5.2.6(g)(4)]*
5. The Permittee agrees to allow inspection of the premises, to which this permit relates, by the Control Officer at any time during the Permittee's hours of operation without prior notice. The Permittee shall not obstruct, hamper or interfere with any such inspection. *[AQR 4.3.3; AQR 4.9; AQR 12.5.2.8(b)]*

6. The Permittee shall allow the Control Officer upon presentation of credentials to:  
*[AQR 4.3; AQR 12.5.2.8(b)]*
  - a. Have access to and copy any records that must be kept under the conditions of the permit;
  - b. Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;
  - c. Sample or monitor substances or parameters for the purpose of assuring compliance with the permit or applicable requirements; and
  - d. Document alleged violations using devices such as cameras or video equipment.
7. Any Permittee who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information. In addition, the Permittee shall provide additional information as necessary to address any requirements that become applicable to the source after the date it filed a complete application but prior to release of a draft permit. A responsible official shall certify the additional information consistent with the requirements of AQR Section 12.5.2.4. *[AQR 12.5.2.2]*
8. The Permittee who has been issued a permit under Section 12.5 shall post such permit in a location which is clearly visible and accessible to the facility's employees and representatives of the department. *[AQR 12.5.2.6(m)]*

**B. Modification, Revision, Renewal Requirements**

1. No person shall begin actual construction of a New Part 70 source, or modify or reconstruct an existing Part 70 source that falls within the preconstruction review applicability criteria, without first obtaining an ATC Permit from the Control Officer *[AQR 12.4.1.1(a)]*
2. The permit may be revised, revoked, reopened and reissued, or terminated for cause. The filing of a request by the Permittee for a permit revision, revocation, reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *[AQR 12.5.2.6(g)(3)]*
3. A permit, permit revision, or renewal may be approved only if all of the following conditions have been met: *[AQR 12.5.2.10(a)]*
  - a. The Permittee has submitted to the Control Officer a complete application for a permit, permit revision, or permit renewal, except that a complete application need not be received before a Part 70 general permit is issued pursuant to Section 12.5.2.20; and
  - b. The conditions of the permit provide for compliance with all applicable requirements and the requirements of Section 12.5.

4. The Permittee shall not build, erect, install or use any article, machine, equipment or other contrivance, the use of which, without resulting in a reduction in the total release of air contaminants to the atmosphere reduces or conceals an emission, which would otherwise constitute a violation of an applicable requirement. *[AQR 80.1; 40 CFR 60.12]*
5. No permit revisions shall be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in the permit. *[AQR 12.5.2.6(i)]*
6. Permit expiration terminates the Permittee's right to operate unless a timely and complete renewal application has been submitted. *[AQR 12.5.2.11(b)]*
7. For purposes of permit renewal, a timely application is a complete application that is submitted at least six (6) months and not greater than eighteen (18) months prior to the date of permit expiration. If a source submits a timely application under this provision, it may continue operating under its current Part 70 Operating Permit until final action is taken on its application for a renewed Part 70 Operating Permit. *[AQR 12.5.2.1(a)(2)]*

**C. Reporting/Notifications/Providing Information Requirements**

1. The Permittee shall submit all compliance certifications to EPA and to the Control Officer. *[AQR 12.5.2.8(e)(4)]*
2. Any application form, report, or compliance certification submitted to the Control Officer pursuant to the permit or AQRs shall contain certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required under AQR 12.5 shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *[AQR 12.5.2.6(l)]*
3. The Permittee shall furnish to the Control Officer, within a reasonable time, any information that the Control Officer may request in writing to determine whether cause exists for revising, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. Upon request, the Permittee shall also furnish to the Control Officer copies of records required to be kept by the permit or, for information claimed to be confidential, the Permittee may furnish such records directly to the Administrator along with a claim of confidentiality. *[AQR 12.5.2.6(g)(5)]*
4. Upon request of the Control Officer, the Permittee shall provide such information or analyses as will disclose the nature, extent, quantity or degree of air contaminants which are or may be discharged by such source, and type or nature of control equipment in use, and the Control Officer may require such disclosures be certified by a professional engineer registered in the state. In addition to such report, the Control Officer may designate an authorized agent to make an independent study and report as to the nature, extent, quantity or degree of any air contaminants which are or may be discharged from the source. An authorized agent so designated is authorized to inspect any article, machine, equipment, or other contrivance necessary to make the inspection and report. *[AQR 4.4]*

5. The Permittee shall submit annual emissions inventory reports based on the following: *[AQR 18.6.1]*
  - a. The annual emissions inventory must be submitted to Air Quality by March 31 of each calendar year; and
  - b. The report shall include the emission factors and calculations used to determine the emissions from each permitted emission unit, even when an emission unit is not operated.

#### **D. Compliance Requirements**

1. The Permittee shall not use as a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. *[AQR 12.5.2.6(g)(2)]*
2. Any person who violates any provision of AQR, including, but not limited to, any application requirement; any permit condition; any fee or filing requirement; any duty to allow or carry out inspection, entry or monitoring activities or any requirements by Air Quality is guilty of a civil offense and shall pay civil penalty levied by the Air Pollution Control Hearing Board and/or the Hearing Officer of not more than \$10,000. Each day of violation constitutes a separate offense. *[AQR 9.1; NRS 445B.640]*
3. Any person aggrieved by an order issued pursuant to AQR Section 9 is entitled to review as provided in Chapter 233B of NRS. *[AQR 9.12]*
4. The Permittee shall comply with the requirements of 40 CFR 61, Subpart M, of the National Emission Standard for Asbestos for all demolition and renovation projects. *[AQR 13.1(b)(8)]*
5. The Permittee shall certify compliance with terms and conditions contained in the OP, including emission limitations, standards, work practices, and the means for monitoring such compliance. *[AQR 12.5.2.8(e)]*
6. The Permittee shall submit compliance certifications annually in writing to the Control Officer (4701 W Russell Road, Suite 200, Las Vegas, NV 89118) and the Administrator at USEPA Region IX (Director, Air and Toxics Divisions, 75 Hawthorne St., San Francisco, CA 94105). A compliance certification for each calendar year will be due on January 30th of the following year and shall include the following: *[AQR 12.5.2.8(e)]*
  - a. The identification of each term or condition of the permit that is the basis of the certification;
  - b. The identification of the methods or other means used by the Permittee for determining the compliance status with each term and condition during the certification period. The methods and means shall include, at a minimum, the monitoring and related recordkeeping and reporting requirements described in 40 CFR 70.6(a)(3). If necessary, the Permittee shall also identify any other material information that must be included in the certification to comply with Section 113(c)(2) of the Act, which prohibits knowingly making a false certification or omitting material information; and

- c. The status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the methods or means designated in subsection II.D.6(b). The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify, as possible exceptions to compliance, any periods during which compliance is required and in which an excursion or exceedance, as defined under 40 CFR Part 64, occurred.
7. The Permittee shall report to the Control Officer (4701 West Russell Road, Suite 200, Las Vegas, Nevada 89118) any startup, shutdown, malfunction, emergency or deviation which cause emissions of regulated air pollutants in excess of any limits set by regulation or by this permit. The report shall be in two parts as specified below: *[AQR 12.5.2.6(d)(4)(B); AQR 25.6.1]*
  - a. Within twenty-four (24) hours of the time the Permittee learns of the excess emissions, the report shall be communicated by phone (702) 455-5942, fax (702) 383-9994, or email: [airquality@clarkcountynv.gov](mailto:airquality@clarkcountynv.gov); and
  - b. Within seventy-two (72) hours of the notification required by paragraph (a) above, the detailed written report containing the information required by AQR Section 25.6.3 shall be submitted.
8. The Permittee shall report to the Control Officer with the quarterly monitoring report all deviations from permit conditions that do not result in excess emissions, including those attributable to malfunction, startup, or shutdown. Reports shall identify the probable cause of each deviation and any corrective actions or preventative measures taken. *[AQR 12.5.2.6(d)(4)(B)]*
9. The owner or operator of any source required to obtain a permit under Section 12 shall report to the Control Officer emissions that are in excess of an applicable requirement or emission limit that pose a potential imminent and substantial danger to public health, safety or the environment as soon as possible, but in no case later than twelve (12) hours after the deviation is discovered, with a written report submitted within two (2) days of the occurrence. *[AQR 25.6.2]*

## **E. Performance Testing Requirements**

1. Upon request of the Control Officer, the Permittee shall test or have tests performed to determine the emissions of air contaminants from any source whenever the Control Officer has reason to believe that an emission in excess of that allowed by the Air Quality regulations is occurring. The Control Officer may specify testing methods to be used in accordance with good professional practice. The Control Officer may observe the testing. All tests shall be conducted by reputable, qualified personnel. *[AQR 4.5]*
2. Upon request of the Control Officer, the Permittee shall provide necessary holes in stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices, as may be necessary for proper determination of the emission of air contaminants. *[AQR 4.6]*

3. The Permittee shall submit for approval a performance testing protocol which contains testing, reporting, and notification schedules, test protocols, and anticipated test dates to the Control Officer (4701 West Russell Road, Suite 200, Las Vegas, Nevada 89118) not less than 45, nor more than 90 days prior to the anticipated date of the performance test, unless otherwise specified in Section III-D. [AQR 12.5.2.8]
4. The Permittee shall submit to EPA for approval any alternative test methods that are not already approved by EPA, to demonstrate compliance with a requirement under 40 CFR Part 60. [40 CFR 60.8(b)]
5. The Permittee shall submit a report describing the results of each performance test to the Control Officer within 60 days from the end of the performance test. [AQR 12.5.2.8]

### III. EMISSION UNITS AND APPLICABLE REQUIREMENTS

[NSR ATC/OP Modification 4, Revision 1, Section IV-A (12/03/08), NSR ATC Modification 5, Revision 0, Section IV-A-1 (12/31/10), NSR ATC Modification 6, Revision 0, Section IV-A (02/27/09), Modification 8, Revision 1, Section IV-A, (05/13/10), AQR 12.4.3.2(b)/AQR 12.5.2.14(a), NSR ATC Section IV-A (01/10/2012), and NSR ATC Section IV-A (09/12/2013).]

#### A. Emission Units

1. The stationary source covered by this Part 70 OP consists of the emission units and associated appurtenances summarized in Tables III-A-1 and III-A-2. [AQR 12.5.2.3]

**Table III-A-1: List of Emission Units for the Aggregate Plant**

EU	Description	Rating (tph)	Make	Model #	Serial #
<b>Primary Plant</b>					
A01	Mining/Excavation	4,825			
A02	Grizzly 1	1,650			
A04	Grizzly to Primary Crusher 1	600	Crush Boss	HSI 400	6356511
	Primary Crusher 1				
	Primary Crusher 1 to Belt 1				
A07	2 Belt System (Drop from Grizzly and Belt 1 to Belt 2)	1,650			
A08	Grizzly 2	600			
A09	Grizzly 2 to Primary Crusher 2	600	Crush Boss	HSI 400	6356536
	Primary Crusher 2				
	Primary Crusher 2 to Belt 3				
A12	3 Belt System (Grizzly to Belt 2, Belt 3 to Belt 4 and Belt 4 to Belt 5)	1,650			
	2 Belt Transfers (Belt 2 to Belt 5 and Belt 5 to Stacker S1)	2,500			
A16	Stacker S1	2,500			

EU	Description	Rating (tph)	Make	Model #	Serial #
A17	7 Belt System (Belt Feeders 6, 7 and 8 to Belt 9, Belt 9 to Belt 10, Belt 10 to Belt 11, Belt 11 to Belt 12 and Belt 12 to Stacker S2)	2,500			
A22	Stacker S2	2,500			
<b>Gabion Plant</b>					
A23	Belt 12 to Belt 13 (From Primary Plant)	415			
A25	Belt 13 to Gabion Screen SC1	415	Telsmith	6x16 TD	275M101C1607
	Gabion Screen SC1				
	Gabion Screen SC1 to Belt 14				
	Gabion Screen SC1 to Belt 15				
	Gabion Screen SC1 to Belt 16				
A27	Belt 14	210			
A28	Stacker S3	210			
A30	Belt 15	105			
A31	Stacker S4	105			
A33	Belt 16	105			
A34	Stacker S5	105			
<b>Secondary Plant</b>					
A35	Belt Feeder 17 to Belt 18	1,525			
A37	Belt 18 to Triple Deck Screens SC2 and SC3	900	JCI	6x20 TD	SAD1554A
	Triple Deck Screen SC2				
	Screen SC2 to Belt 19				
	Screen SC2 to Belt 21				
	Screen SC2 to Belt 26				
	Screen SC2 to Belt 31				
A38	Triple Deck Screen SC3	900	JCI	6x20 TD	96H02B32
	Screen SC3 to Belt 21				
	Screen SC3 to Belt 32				
A40	2 Belt System (Belt 19 to Belt 20 and Belt 20 to Stacker S6)	900			
	Belt 32 to Belt 20	900			
A42	Stacker S6	900			
A44	2 Belt System (Belt 21 to Belt 22 and Belt 22 to Stacker S7)	300			
	Additional Transfer from SC3 (via Belt 21) Included				
A46	Stacker S7	300			
A47	2 Belt Feeders to Belt 25	500			
A49	2 Belt System (Belt 26 to Belt 27 and Belt 27 to Stacker S8)	500			
A51	Stacker S8	500			
A52	2 Belt Feeders to Belt 30	500			
A58	Belt 31 to HSI 1 Crusher	600	Crush Boss	HSI 400	101400

EU	Description	Rating (tph)	Make	Model #	Serial #
A60	HSI 1 Crusher				
	HSI 1 Crusher to Belt 33				
	Recirculation Belt 33				
<b>Sand Plant</b>					
A62	Belt 25 to VSI Crusher 1	200	CEMCO	70	AVE0195170
	Belt 35 to VSI Crusher 1				
	VSI Crusher 1				
	VSI Crusher 1 to Belt 34				
A65	Belt 34 to Screen SC4	300	JCI	6x20 TD	96H05D32
	Screen SC4				
	Screen SC4 to Belt 35				
	Screen SC4 to Belt 39				
A69	3 Belt System (Belt 36 to Belt 37, Belt 37 to Belt 38 and Belt 38 to Stacker S9)	210			
A72	Stacker S9	210			
A74	3 Belt System (Belt 39 to Belt 40, Belt 40 to Belt 41 and Belt 41 to Stacker S10)	200			
A77	Stacker S10	200			
<b>Cone Plant</b>					
A79	Belt 30 to Cone Crusher 1	300	Nordberg	HP 300	30310657
	Cone Crusher 1				
	Cone Crusher 1 to Belt 42				
A82	Belt 42 to Screens SC5 and SC6	450	JCI	6x20 TD	99H03K32
	Triple Deck Screen SC5				
	Screen SC5 to Belt 43				
	Screen SC5 to Belt 49				
	Screen SC5 to Belt 51				
A83	Triple Deck Screen SC6	450	JCI	7x20 TD	43J0491
	Screen SC6 to Belt 45				
A85	2 Belt System (Belt 43 to Belt 44 and Belt 44 to Stacker S11)	210			
A87	Stacker S11	210			
A89	4 Belt System (Belt 45 to Belt 46, Belt 46 to Belt 47, Belt 47 to Belt 48 and Belt 48 to Stacker S12)	300			
A93	Stacker S12	300			
A95	2 Belt System (Belt 49 to Belt 50 and Belt 50 to Belt 30)	250			
A98	4 Belt System (Belt 51 to Belt 52, Belt 52 to Belt 53, Belt 53 to Belt 54 and Belt 54 to Stacker S13)	450			
	Belt 53 to Belt 55	150			
A102	Stacker S13	450			
A104a	Belt 55 to VSI Crusher 2	150	CEMCO	80	ADEV0399180V

EU	Description	Rating (tph)	Make	Model #	Serial #
	VSI Crusher 2				
	VSI Crusher 2 to Belt 39				
<b>Wash Plant</b>					
A106	Belt Feeder 56 to Belt 57	1,200			
A108	Belt 57 to Screens SC7 and SC8	605	JCI	6x20 TD	96H01B32
	Triple Deck Screen SC7				
	Screen SC7 to Sand Screw 1				
	Screen SC7 to Belt 61				
A109	Triple Deck Screen SC8	605	Cedar Rapids	TSS 6203-32	54400
	Screen SC8 to Sand Screw 2				
	Screen SC8 to Belt 60				
	Screen SC8 to Belt 61				
A112	Sand Screw 1 to Belt 58	70			
A113	Sand Screw 2 to Belt 58	70			
A114	2 Belt System (Belt 58 to Belt 59 and Belt 59 to Stacker S14)	140			
A116	Stacker S14	140			
A118	Belt 60 to Stacker S15	550			
A119	Stacker S15	550			
A122	2 Belt System (Belt 61 to Belt 62 and Belt 62 to Storage Hopper)	415			
A124	Storage Hopper to Belt 63	415			
A125	Belt 63 to Rock Truck	415			
A126	Rock Truck Dumping	415			
<b>Landfill Cover Plant</b>					
A127	Blasting	24,200 ft <sup>2</sup> /hr			
A128	Grizzly 3	1,800			
A130	Grizzly 3 to Primary Crusher 2	400	Crush Boss	400	400504
	Primary Crusher 2				
	Primary Crusher 2 to Belt 64				
A133	Grizzly 3 to Belt 64	1,400			
	2 Belt System (Belt 64 to Belt 65 and Belt 65 to Belt 66)	1,800			
A136	Belt 66 to Screen SC9	1,800	Cedar Rapids	8x20 TD	46531
	Belt 75 to Screen SC9				
	Screen SC9				
	Screen SC9 to Belt 67				
	Screen SC9 to Belt 70				
	Screen SC9 to Belt 72				
Screen SC9 to Belt 74					
A138	3 Belt System (Belt 67 to Belt 68, Belt 68 to Belt 69 and Belt 69 to Stacker S16)	1,000			
A141	Stacker S16	1,000			
A143	2 Belt System (Belt 70 to Belt 71	500			

EU	Description	Rating (tph)	Make	Model #	Serial #
	and Belt 71 to Stacker S17)				
A145	Stacker S17	500			
A147	2 Belt System (Belt 72 to Belt 73 and Belt 73 to Stacker S18)	300			
A149	Stacker S18	300			
A151	Belt 74 to Cone Crusher 2	200	Svedala	S-3000	03JA08802
	Cone Crusher 2				
	Cone Crusher 2 to Belt 75				

**Table III-A-2: List of Emission Units for the MSWL**

EU	Description	Rating	Make	Model #	Serial #
G01	Evaporation Unit #1	123 gal/min	Land Shark	LS	RW-103
G02	Evaporation Unit #2	123 gal/min	Land Shark	LS	RW-128
G27	Open Combustion Flare	1,920 scfm	John Zink	Elevated ZEF Gas Flare and Blower Skid	BF9113501
H01	Haul Road, Paved (2.0 miles RT)	1,237,592 VMT/yr			
H02	Haul Road, Unpaved	321,920 VMT/yr			
W01	Soil Treatment Bulk Material Unloading	20,000 tpy			
	Stationary Grizzly Deck				
	Material Transfer to Soil Treatment Cell				
	Soil Transfer from Soil Treatment Cell				
W02	Soil Treatment Waste Processing	20,000 tpy			
W03	Industrial Waste Cover Material Dumping	435,000 tpy			
	Transfer to Face Cover Material				
W04	Industrial Waste VOC from LFG	200,000 tpy			
W05	Cover Material Handling for Waste Placement	1,090,951 tpy			
W06	1-2,500 aboveground gasoline storage tank, Regular	61,771 gal/yr			
W08	Waste Placement	13,008,600 tpy			
W09	Stockpiles: Active/Inactive (cover material)	123.11 acres			
W11	Enclosed Combustion LFG Flare	136.605 MMBtu/hr	John Zink	Zule Zink Low Emission Flare	9108785
W100	Fugitive Emissions from Landfill (based on 2006 Estimates)	N/A			
W205	Diesel Tipper Engine: DOM Pre-2006	150 hp	CAT	3208	35601941
W207	Diesel Generator: DOM Pre-2006	188 bhp	Cummins	6CT8.3-G2	45859062
W213	Diesel Engine DOM 2006	115 hp	John Deere	4045HF275	PE4045H67 2600
W214	Diesel Generator	186 kW	Cummins	125DSGAB	D110207218
	Diesel Engine, DOM: 2009 or later	250 hp			
W215	Diesel Generator	186 kW	Cummins	125DSGAB	73463856

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EU	Description	Rating	Make	Model #	Serial #
	Diesel Engine, DOM: 2009 or later	250 hp			
W216	Diesel Generator	133 kW	John Deere	4045	4045R0081 57
	Diesel Engine, DOM: 2011	175 hp			
W217	Diesel Generator	133 kW	John Deere	4045	4045R0081 56
	Diesel Engine, DOM: 2011	175 hp			

## B. Emission Limitations and Standards

### 1. Emission Limits

#### Aggregate Plant

- a. The Permittee shall not allow actual emissions from each emission unit at the aggregate plant to exceed the PTE listed in Table III-B-1 in any consecutive 12-month period. *[NSR ATC/OP Modification 4, Revision 1, Section IV-B (12/03/08), NSR ATC Modification 5, Revision 0, Section IV-B-2 (12/31/10), NSR ATC Modification 6, Revision 0, Section IV-B, (02/27/09), Modification 8, Revision 1, Section IV-A-2, (05/13/10)]*

**Table III-B-1: Aggregate Plant PTE (tons per year)**

EU	PM <sub>10</sub>	EU	PM <sub>10</sub>	EU	PM <sub>10</sub>
A01	0.32	A46	0.03	A106	0.12
A02	0.03	A47	0.07	A108	0.01
A04	0.04	A49	0.09	A109	0.01
A07	0.18	A51	0.05	A112	0.01
A08	0.02	A52	0.09	A113	0.01
A09	0.04	A58	0.02	A114	0.01
A12	0.46	A60	0.05	A116	0.01
A16	0.16	A62	0.02	A118	0.01
A17	1.13	A65	0.59	A119	0.01
A22	0.16	A69	0.03	A122	0.01
A23	0.02	A72	0.01	A124	0.01
A25	0.37	A74	0.07	A125	0.01
A27	0.01	A77	0.02	A126	0.01
A28	0.01	A79	0.02	A128	0.02
A30	0.01	A82	0.74	A130	0.01
A31	0.01	A83	0.74	A133	0.19
A33	0.01	A85	0.03	A136	1.11
A34	0.01	A87	0.01	A138	0.14
A35	0.14	A89	0.14	A141	0.05
A37	1.22	A93	0.03	A143	0.05
A38	1.22	A95	0.05	A145	0.02
A40	0.21	A98	0.15	A147	0.02
A42	0.07	A102	0.03	A149	0.01
A44	0.10	A104a	0.01	A151	0.01

- b. The Permittee shall not discharge into the atmosphere, from any emission unit at the aggregate plant, any air contaminant in excess of an average of 20 percent opacity for a period of more than 6 consecutive minutes, unless otherwise required by this permit. *[AQR 26.1.1]*
- c. The Permittee shall not discharge into the atmosphere fugitive dust emissions from screens, conveyors and transfer points that commenced construction, modification or reconstruction after April 22, 2008 (EUs: A02, A07, A08, A12, A16, A17, A22, A23, A25, A27, A28, A30, A31, A33, A34, A35, A37, A38, A40, A42, A44, A46, A47, A49, A51, A52, A60, A65, A69, A72, A74, A77, A82, A83, A85, A87, A89, A93, A95, A98, A102, A106, A128, A133, A136, A138, A141, A143, A145, A147 and A149) in excess of an average of 7.0 percent opacity for a period of more than 6 consecutive minutes. *[40 CFR 60, Subpart 000]*
- d. The Permittee shall not discharge into the atmosphere fugitive dust emissions from crushers that commenced construction, modification or reconstruction after April 22, 2008 (EUs: A04, A09, A58, A62, A79, A104a, A130 and A151) in excess of an average of 12.0 percent opacity for a period of more than 6 consecutive minutes. *[40 CFR 60, Subpart 000]*
- e. The Permittee shall not discharge into the atmosphere visible emissions from emission units specified in this document as either an enclosed or wet process (EUs: A108, A109, A112, A113, A114, A116, A118, A119, A122, A124, A125 and A126). *[NSR ATC Modification 5, Revision 0, Condition IV-A-2(e) (12/31/10)]*
- f. The Permittee shall not allow actual stack emissions from each baghouse for emission units that commenced construction, modification or reconstruction after April 22, 2008, to exceed the concentration rates listed in Table III-B-2. *[40 CFR 60, Subpart 000]*
- g. The Permittee shall not allow actual emissions from each emission unit to exceed the mass emission rates and concentrations listed in Table III-B-2. *[NSR ATC Modification 5, Revision 0, Section IV-A-2(g) (12/31/10)]*

**Table III-B-2: Emission Rates and Concentrations Aggregate Plant**

EU	PM <sub>10</sub> Mass Emission Rate (pounds per hour)	PM Stack Emission Concentrations	
		(g/dscm)	(gr/dscf)
A04	0.01	0.032	0.014
A09	0.01	0.032	0.014
A58	0.01	0.032	0.014
A62	0.01	0.032	0.014
A79	0.01	0.032	0.014
A104a	0.01	0.032	0.014
A130	0.01	0.032	0.014
A151	0.01	0.032	0.014

**Blasting**

- h. The Permittee shall not allow actual emissions from blasting operations (EU: A127) to exceed the PTE listed in Table III-B-3 in any consecutive 12-month period. *[NSR*

*ATC/OP Modification 4, Revision 1, Section IV-B (12/03/08), NSR ATC Modification 5, Revision 0, Section IV-A (12/31/10), NSR ATC Modification 6, Revision 0, Section IV-B, (02/27/09), Modification 8, Revision 1, Section IV-A-2, (05/13/10)]*

**Table III-B-3: PTE Blasting (tons per year)**

EU	PM <sub>10</sub>	NO <sub>x</sub>	CO
A127	8.31	5.50	29.11

**MSWL**

- i. The Permittee shall not allow actual emissions from each emission unit to exceed the PTE listed in Table III-B-4 in any consecutive 12-month period. *[NSR ATC/OP Modification 4, Revision 1, Section IV-B (12/03/08), NSR ATC Modification 5, Revision 0, Section IV-A (12/31/10), NSR ATC Modification 6, Revision 0, Section IV-B, (02/27/09), Modification 8, Revision 1, Section IV-A-2, (05/13/10) and AQR 12.4.3.2(b)/AQR 12.5.2.14(a), NSR ATC Section IV-A-2 (09/12/2013)]*

**Table III-B-4: PTE MSWL (tons per year)**

EU	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	CO	SO <sub>x</sub>	VOC	HAP
G01	3.59	2.16	0.00	0.00	0.00	0.00	0.42
G02	3.59	2.16	0.00	0.00	0.00	0.00	0.42
G27	0.80	0.80	3.18	17.32	61.68	0.52	0.23
H01	93.69	0.00	0.00	0.00	0.00	0.00	0.00
H02	121.85	0.00	0.00	0.00	0.00	0.00	0.00
W01	0.26	0.00	0.00	0.00	0.00	0.00	0.00
W02	0.00	0.00	0.00	0.00	0.00	2.78	0.00
W03	2.18	0.00	0.00	0.00	0.00	0.00	0.00
W04	0.00	0.00	0.00	0.00	0.00	0.19	0.00
W05	3.97	0.00	0.00	0.00	0.00	0.00	0.00
W06	0.00	0.00	0.00	0.00	0.00	0.40	0.10
W08	1.04	0.00	0.00	0.00	0.00	0.00	0.00
W09	3.58	0.00	0.00	0.00	0.00	0.00	0.00
W11	8.92	8.92	13.12	31.49	53.85	5.88	0.56
W205	0.55	0.55	7.83	1.69	1.09	0.67	0.13
W207	0.20	0.20	5.47	0.45	0.14	0.14	0.20
W213	0.24	0.24	4.31	4.14	1.03	0.32	0.02
W214	0.36	0.36	7.24	6.28	2.24	2.75	0.05
W215	0.36	0.36	7.24	6.28	2.24	2.75	0.05
W216	0.25	0.25	4.41	2.02	1.57	1.93	0.03
W217	0.25	0.25	4.41	2.02	1.57	1.93	0.03

- j. The Permittee shall operate the open combustion flare (EU: G27) with no visible emissions , except for periods not to exceed a total of five (5) minutes during any two (2) consecutive hours. *[40 CFR 60.18(c)(1)]*

- k. The Permittee shall not allow actual fugitive emissions from the landfill (EU: W100) to exceed the PTE listed in Table III-B-5 in any consecutive 12-month period. *[NSR ATC/OP Modification 4, Revision 1, Section IV-B (11/04/08), NSR ATC Modification 5, Revision 0, Section IV-B (12/31/10), NSR ATC Modification 6, Revision 0, Section IV-B, (02/27/09), Modification 8, Revision 1, Section IV-A-2, (05/13/10)]*

**Table III-B-5: PTE MSWL Fugitive Emissions (tons per year)**

EU	Description	Pollutant	Maximum Emissions
W100	Fugitive Emissions from Landfill (based on 2006 Estimates)	VOC (including HAP)	32.89
		HAP (Not including H <sub>2</sub> S)	32.16
		TCS (only H <sub>2</sub> S)	147.27

- l. The Permittee shall maintain paved haul roads so not to discharge into the atmosphere fugitive dust emissions in excess of an average opacity of 20 percent for a period of more than 6 consecutive minutes (EU: H01). *[AQR 26.1.1]*
- m. The Permittee shall maintain the unpaved haul roads so not to discharge into the atmosphere fugitive dust emissions in excess of an average opacity of 20 percent for a period of more than 6 consecutive minutes (EU: H02). *[AQR 26.1.1]*
- n. The Permittee shall not discharge into the atmosphere, from any emission unit at the MSWL, any air contaminant in excess of an average of 20 percent opacity for a period of more than 6 consecutive minutes, unless otherwise required by this permit. *[AQR 26.1.1]*
- o. The Permittee shall calculate fugitive emissions from the landfill on the assumption that 25 percent of the LFG generated is not captured by the capture and collection system. Recalculation of the fugitive emissions from the landfill shall be carried out, based on the actual amount of refuse in place; every five years (estimated fugitive emissions were updated in July, 2010). *[AQR 12.5.2.6(a)]*
- p. The Permittee shall comply with the applicable emission limitations and operating limitations of 40 CFR 63 Subpart ZZZZ at all times (EUs: W205 and W207). *[40 CFR 63.6605(a)]*
- q. The Permittee shall not discharge into the air emissions from the diesel engine (EU: W213) in excess of 9.2 g/kW-hr of NO<sub>x</sub>. *[40 CFR 60.4204(b)]*.
- r. The Permittee shall not discharge into the atmosphere emissions from the diesel engines (EUs: W214, W215, W216 and W217) in excess of 4.0 g/kW-hr of NMHC+NO<sub>x</sub>, 3.5 g/kW-hr of CO or 0.20 g/kW-hr of PM. *[40 CFR 60.4204(b)]*

**2. Operational Limits**

Aggregate Plant

- a. The Permittee shall limit the amount of material processed at the aggregate plant to the production rates listed in Table III-B-7. *[NSR ATC Modification 5, Revision 0, Condition IV-A-3(a)(12/31/10)]*

**Table III-B-7: Maximum Allowable Production Throughputs (tons per year)**

EU	Description	Plant	Throughput
A01	Mining/ Excavation	Primary Plant	7,000,000
A25	Gabion Screen	Gabion Plant	1,000,000
A37	Triple Deck Screen SC2	Secondary Plant	3,300,000
A38	Triple Deck Screen SC3	Secondary Plant	3,300,000
A62	VSI Crusher	Sand Plant	1,600,000
A79	Cone Crusher 1	Cone Plant	2,000,000
A108	Triple Deck Screen SC7	Wash Plant	3,500,000
A109	Triple Deck Screen SC8	Wash Plant	3,500,000
A130	Primary Crusher 2	Landfill Cover Plant	1,000,000
A136	Screen SC9	Landfill Cover Plant	3,000,000

- b. The Permittee shall limit the total amount of surface area blasted to 1,733,886 ft<sup>2</sup> in any consecutive 12-month period. *[NSR ATC Modification 5, Revision 0, Condition IV-A-3(b) (12/31/10)]*

MSWL

- c. The Permittee shall limit the total vehicles miles traveled (VMT) on paved roads to 1,237,592 miles traveled in any consecutive 12-month period (EU: H01). *[NSR ATC Modification 5, Revision 0, Condition IV-A-3(c) (12/31/10)]*
- d. The Permittee shall limit the total vehicles miles traveled (VMT) on unpaved roads to 321,920 miles traveled in any consecutive 12-month period (EU: H02). *[NSR ATC Modification 5, Revision 0, Condition IV-A-3(d) (12/31/10)]*
- e. The Permittee shall limit the Soil Treatment Operation to 20,000 tons of treated material in any consecutive 12-month period (EUs: W01 and W02). *[NSR ATC/OP Modification 4, Revision 1, Condition IV-A-6 (11/04/08)]*
- f. The Permittee shall limit the Industrial Waste Facility cover material to a total of 435,000 tons in any consecutive 12-month period (EU: W03). *[NSR ATC/OP Modification 4, Revision 1, Condition IV-A-7 (11/04/08)]*
- g. The Permittee shall limit the Industrial Waste Facility placement to 200,000 tons of treated material in any consecutive 12-month period (EU: W04). *[NSR ATC/OP Modification 4, Revision 1, Condition IV-A-7 (11/04/08)]*
- h. The Permittee shall not accept waste containing more than one (1) percent biodegradable waste at the Industrial Waste facility (EU: W04). *[NSR ATC/OP Modification 4, Revision 1, Condition IV-B-30 (11/04/08)]*
- i. The Permittee shall limit the Cover Material Handling for waste placement to a total of 1,090,951 tons in any consecutive 12-month period (EU: W05). *[AQR 12.5.2.6(a)]*
- j. The Permittee shall limit the throughput of gasoline products through the fuel storage tank to a total of 61,771 gallons in any consecutive 12-month period (EU: W06). *[NSR ATC Modification 8, Revision 1, Conditions IV-A-3(a and b) (05/13/10)]*
- k. The Permittee shall limit the actual throughput of LFG through the enclosed combustion flare (EU: W11) to 2,099,246,400 cubic feet in any consecutive 12-

month period. *[NSR ATC Condition IV-A-3(a) (01/10/12)]*

- l. The Permittee shall limit the throughput for the Waste Placement to 13,008,600 tons in any consecutive 12-month period (EU: W08). *[NSR ATC, Modification 5, Revision 0, Condition IV-A-3(e) (12/31/10)]*
- m. The Permittee shall limit the total area of stockpiles to not more than 77.03 acres of active stockpiles and 46.08 acres of inactive stockpiles (EU: W09). *[NSR ATC, Modification 5, Revision 0, Condition IV-A-3(f) (12/31/10)]*
- n. The Permittee shall limit the operation of the Tipper Engine (EU: W205) to a total of 4,380 hours in any consecutive 12-month period. *[NSR ATC Modification 5, Revision 0, Condition IV-A-3(k) (12/31/10)]*
- o. The Permittee shall limit the operation of the well generator (EU: W207) to a total of 4,387 hours in any consecutive 12-month period. *[NSR ATC Modification 5, Revision 0, Condition IV-A-3(l) (12/31/10)]*
- p. The Permittee shall limit the throughput of LFG through the open combustion flare (EU: G27) to 187,200,000 cubic feet in any consecutive 12-month period. *[NSR ATC Condition IV-A-3-a (09/12/2013)]*
- q. The Permittee shall not operate the open combustion flare (EU: G27) when the enclosed combustion flare (EU: W11) is operating. *[NSR ATC Condition IV-A-3-b (09/12/2013)]*
- r. The Permittee shall route collected gas to the open combustion flare (EU: G27) only when the gas flow rate is lower than the optimal rate for the 5,000 scfm flare, or when the desulfurization control device is not operable due to maintenance or malfunction. *[NSR ATC Condition IV-A-3-c (09/12/2013)]*

### **3. Emission Controls**

#### Aggregate Plant

- a. The Permittee shall apply wet suppression to maintain moisture content and control emissions within allowable limits at the aggregate plant. Each mineral processing emission unit that is not connected to baghouse controls or part of the wet process shall incorporate an effective water spray system that is maintained in good operating condition at all times. *[AQR 41.1.1]*
- b. The Permittee shall not cause or allow fugitive dust to become airborne without taking reasonable precautions and shall not cause or allow the discharge of fugitive dust in excess of 100 yards from the point of origin or beyond the lot line of the property on which the emissions originate, whichever is less. *[AQR 41.1.1.1(a)]*
- c. The Permittee shall use baghouses to control particulate emissions at all times the processing equipment is operating (EUs: A04, A09, A58, A62, A79, A104a, A130 and A151). *[NSR ATC Modification 5, Revision 0, Condition IV-B-3 (12/31/10)]*
- d. The Permittee shall maintain each of the baghouses in good operating condition to achieve a particulate control efficiency of 99.0 percent (EUs: A04, A09, A58, A62, A79, A104a, A130 and A151). *[NSR ATC Modification 5, Revision 0, Condition IV-B-4 (12/31/10)]*

- e. The Permittee shall maintain an effective seal around each of the baghouses and the pressure drop across each baghouse shall be maintained within the limits specified in Table III-B-3. *[NSR ATC Modification 5, Revision 0, Condition IV-B-5 (12/31/10)]*
- f. The Permittee shall operate baghouses for individual emission units as indicated in Table III-B-8. *[NSR ATC Modification 5, Revision 0, Condition IV-B-6 (12/31/10)]*

**Table III-B-8: Summary of Add-On Control Devices for Aggregate Processing**

EU	Device Type	Pressure Drop	Manufacturer	Model #	Serial #	Pollutant
A04 and A09	Baghouse	2.0 - 6.0 in/H <sub>2</sub> O	Donaldson Torit	CPV-12	2797228	PM <sub>10</sub>
A58	Baghouse	2.0 - 8.0 in/H <sub>2</sub> O	SiloAir – DCC	VS20KS3	98-1296/01	PM <sub>10</sub>
A62	Baghouse	2.0 - 8.0 in/H <sub>2</sub> O	SiloAir – DCC	VS20KS3	98-1296/02	PM <sub>10</sub>
A79 and A104a	Baghouse	2.0 - 8.0 in/H <sub>2</sub> O	PneumaFil	85168	643	PM <sub>10</sub>
A130	Baghouse	2.0 - 8.0 in/H <sub>2</sub> O	Donaldson Torit	CPV-12	2797229	PM <sub>10</sub>
A151	Baghouse	2.0 - 8.0 in/H <sub>2</sub> O	SiloAir – DCC	VS20KS3	99-1141/01	PM <sub>10</sub>

MSWL – Soil/Material Transfer

- g. The Permittee shall maintain a minimum of 1.5 percent moisture in the contaminated soil prior to unloading from the truck at the Soil Treatment facility (EUs: W01 and W02). *[NSR ATC/OP Modification 4, Revision 1, Condition IV-B-29 (11/04/08)]*
- h. The Permittee shall maintain a minimum of two (2) percent moisture during soil transfer operations at the Soil Treatment facility (EUs: W01 and W02). *[NSR ATC/OP Modification 4, Revision 1, Condition IV-B-29 (11/04/08)]*
- i. The Permittee shall maintain at least 2.5 percent moisture content in materials less than 0.25 inch in diameter for the cover material transfer operations (EU: W05). *[NSR ATC/OP Modification 4, Revision 1, Condition IV-B-28 (11/04/08)]*

MSWL – GDO

- j. The Permittee shall perform the applicable requirements contained in 40 CFR 63 Subpart CCCCCC for the GDO (EU: W06), as follows: *[NSR ATC Modification 8, Revision 1, Condition IV-B-1 (05/13/10) and 40 CFR 63, Subpart 63.11116]*
  - i. The Permittee shall not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Preventative measures to be taken include, but are not limited to, the following:
    - ii. Minimize gasoline spills;
    - iii. Clean up spills as expeditiously as practicable;
    - iv. Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use; and
    - v. Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

- k. The Permittee shall not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Preventative measures to be taken include, but are not limited to, the following: *[40 CFR 63, Subpart 63.11117]*
- i. Comply with the requirements in (j); and
  - ii. Only load gasoline into storage tanks a using submerged filling where the greatest distance from the bottom of the storage tank to the point of opening of the fill tube is:
    - a. No more than 12 inches for submerged fill pipes installed on or before November 9, 2006; or
    - b. No more than 6 inches for submerged fill pipes installed after November 9, 2006.
- l. The Permittee shall apply the following control requirements to the Phase I Vapor Recovery system (EU: W06): *[NSR ATC Modification 8, Revision 1, Condition IV-B-2 (05/13/10)]*
- i. The OPW Phase I Vapor Recovery System shall be constructed in accordance with the “Two-Point Phase I Vapor Recovery System” drawing, and shall use components specified in the current CARB EO G-70-142 series.
  - ii. The highest point of discharge from a submerged fill-pipe shall be no more than 6.0 inches from the tank bottom.
  - iii. Pursuant to AQR Section 12 (amended 10/07/04); all Phase I vapor recovery equipment shall be installed and operated in accordance with the manufacturer’s specifications and certification requirements.
  - iv. All Phase I vapor recovery equipment shall be maintained to be leak free, vapor tight, and in good working order.
  - v. All Phase I vapor recovery equipment shall have a CARB-certified device, which prevents loosening or over tightening of the Phase I product adaptor.
  - vi. Each system that has a pressure/vacuum vent valve installed must also meet the standards as outlined in the current CARB EO G-70-142 series.

MSWL – LFG Collection System

- m. Except during periods of start-up, shut-down or malfunction, the Permittee shall apply controls specified in this section for collected LFG. Periods of start-up, shut-down and malfunction shall not exceed five (5) days for the collection system and shall not exceed one (1) hour for treatment and control devices. *[40 CFR 60.755(e)]*
- n. The Permittee shall operate the LFG collection system such that gas is collected from each area, cell, or group of cells in the MSWL in which solid waste has been in place for: *[40 CFR 60.753(a)(1)]*
- i. 5 years or more if active; or
  - ii. 2 years or more if closed or at final grade.

- o. The Permittee shall operate the LFG collection system with negative pressure at the wellheads except under the following conditions: *[40 CFR 60.753(b)]*
  - i. A fire or increased temperature;
  - ii. Use of a geomembrane or synthetic cover. The permittee shall develop acceptable limits in the design plan; or
  - iii. A decommissioned well. A well may experience a static positive pressure after shutdown to accommodate for declining flows. All design changes shall be approved by the control officer.
- p. The Permittee shall operate each interior wellhead in the collection system with a LFG temperature less than 71° C (160°F) and with a nitrogen level less than 20 percent or an oxygen level less than 5 percent. *[40 CFR 60.753(c)]*
- q. The Permittee shall operate the collection system so that the methane concentration is less than 500 parts per million above background at the surface of the landfill. *[40 CFR 60.753(d)]*
- r. In the event the collection or control system is inoperable, the Permittee shall shut down the gas mover system and close all valves in the collection and control system that contributes to the venting of gas to the atmosphere within 1 hour. *[40 CFR 60.753(e)]* If the operational requirements in this section for the LFG collection system are not met, the Permittee shall initiate the following corrective actions: *[40 CFR 60.753(g)]*
  - i. Action shall be initiated to correct the exceedance within 5 calendar days of the initial exceedance or insufficient air flow measurement; and
  - ii. If correction of the exceedance, or the negative pressure cannot be achieved, without excess air infiltration within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial exceedance.
- s. The Permittee shall not cap or remove the collection and control system until all of the following conditions are met: *[40 CFR 60.752(b)(2)(v)]*
  - i. The landfill shall be a closed landfill as defined in 40 CFR 60.751. A closure report shall be submitted to the Control Officer as provided in 40 CFR 60.757(d);
  - ii. The collection and control system shall have been in operation a minimum of 15 years; and
  - iii. Following the procedures specified in 40 CFR 60.754(b), the calculated NMOC gas produced by the landfill shall be less than 50 megagrams per year on three successive test dates. The test dates shall be not less than 90 days apart, and no more than 180 days apart.
- t. The Permittee shall operate the LFG collection system such that all collected gases are vented to the control system designed and operated in compliance with 40 CFR 60.752(b)(2)(iii) *[40 CFR 60.753(e)]*.

- u. The Permittee shall not be required to vent all collected gases to the control systems of this permit if the collected gas from the MSWL is routed to a treatment system that processes the collected gas for subsequent sale or use. All emissions from any atmospheric vent from the gas treatment system shall be subject to the requirements of 40 CFR 60.752(b)(2)(iii)(A) or (B). *[40 CFR 60.752(b)(2)(iii)(C)]*

MSWL – Combustion Flares

- v. Unless routed to a treatment system for subsequent sale or use, the Permittee shall route all collected LFG from the MSWL to a control system that meets the control requirements of this permit for NMOC at all times the control system is operating. *[NSR ATC/OP Modification 4, Revision 1, Condition IV-B-33 (11/04/08)]*
- w. The Permittee shall operate the enclosed combustion flare (EU: W11) to either reduce NMOC by 98 weight percent or reduce the outlet NMOC concentration to less than 20 parts per million (ppm) by volume, dry basis as hexane at 3 percent oxygen. *[40 CFR 60.752(b)(2)(iii)(B)]*
- x. The Permittee shall operate the enclosed combustion flare (EU: W11) with the flame present at all times when the collected gas is routed to the system. *[40 CFR 60.753(f) and NSR ATC Condition IV-B-2 (01/10/12)]*
- y. The Permittee shall operate the enclosed combustion flare (EU: W11) at a minimum temperature of 1,600° F or at a temperature that corresponds with at least 98 percent control efficiency of LFG obtained from the most recent performance test. *[40 CFR 60.752(b)(2)(iii)(B)(2) and NSR ATC Condition IV-B-3 (01/10/12)]*
- z. The Permittee shall design and operate the open combustion flare (EU: G27) in accordance with 40 CFR 60.18 except as noted in 40 CFR 60.754(e). *[40 CFR 60.752(b)(2)(iii)(A)]*
- aa. The Permittee shall direct collected gas that is routed to the open combustion flare (EU: G27) through the desulfurization system control device to treat SO<sub>2</sub> while the control device is operating. The Permittee may bypass the desulfurization control device and route collected gas directly to the open combustion flare only when the control device is not operable due to maintenance or malfunctions. *[NSR ATC Condition IV-B-3 (09/12/2013)]*
- bb. The Permittee shall operate the open combustion flare (EU: G27) with the flame present at all times when the collected gas is routed to the flare. *[40 CFR 60.753(f)]*
- cc. The Permittee shall adhere to either the heat content specifications in 40 CFR 60.18(c)(3)(ii) and the maximum tip velocity specifications in 40 CFR 60.18(c)(4), or the requirements in 40 CFR 60.18(c)(3)(i) as follows: *[40 CFR 60.18(c)(3)]*
  - i. The Permittee shall use the open combustion flare (EU: G27) only with the net heating value of the gas being combusted being 7.45 MJ/scm (200 Btu/scf) or greater. The net heating value of the gas being combusted shall be determined by the methods specified in 40 CFR 60.18(f)(3).
  - ii. The Permittee shall limit the maximum tip velocity of the open combustion flare (EU: G27) to less than V<sub>max</sub>, as determined by the method specified in paragraph 40 CFR 60.18(f)(5), and not more than 400 ft/sec.

- iii. The Permittee may demonstrate compliance for the open combustion flare (EU: G27) using other methods in accordance with 40 CFR 60.18(c)(3) upon written notification to the Control Officer, Compliance Division.
- dd. The Permittee shall operate the flare to comply with the written startup, shutdown, and malfunction (SSM) plan in accordance with the provisions in 40 CFR 63.6(e)(3). The Permittee shall maintain a copy of the SSM plan on site. *[40 CFR 63.1960]*
- ee. The Permittee shall maintain a copy of the approved SSM plan dated 12/19/2013 on site. Any changes that need to be made to the SSM plan must be submitted to the Control Officer for review and approval prior to making the change. *[40 CFR 63.1960]*
- ff. At all times, including periods of start-up, shut-down and malfunction, the Permittee shall under all conditions maintain and operate the source in a manner consistent with good air pollution control practice to minimize emissions as required by 40 CFR 63.6. Determination that acceptable operating and maintenance procedures are being used shall be based on information available to the Control Officer, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspections of the source. *[40 CFR 63.1960]*

#### MSWL – Desulfurization System Control Device

- gg. The Permittee shall operate the desulfurization system control device to control emissions from the enclosed combustion flare (EU: W11) when the flare is in operation. *[NSR ATC Condition IV-B-4 (01/10/12)]*
- hh. The Permittee shall operate the desulfurization system control device to control emissions from the open combustion flare (EU: G27) when the control device is operable and when the open combustion flare is in operation. *[NSR ATC Condition IV-B-3 (09/12/13)]*
- ii. The Permittee shall operate and maintain the desulfurization system control device in accordance with the manufacturer's specifications. *[NSR ATC Condition IV-B-5 (01/10/12)]*
- jj. The Permittee shall operate the desulfurization system control device with a minimal control efficiency of 92.2 percent. *[NSR ATC Condition IV-B-6 (01/10/12)]*
- kk. The Permittee shall maintain the temperature of the media in the desulphurization plant to no greater than 115°F. *[AQR 12.4.3.1(e)(10)]*
- ll. The Permittee shall maintain the pH of the media in the desulphurization plant between 7.9 and 9.0. *[AQR 12.4.3.1(e)(10)]*

#### MSWL – Diesel Engines

- mm. The Permittee shall operate the tipper IC engine with a turbocharger and aftercooler (EU: W207). *[NSR ATC/OP Modification 4, Revision 1, Condition IV-B-48 (11/04/08)]*
- nn. The Permittee shall minimize all RICE engines' time spent at idle during startup and minimize all engines' startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission

standards are applicable to all time other than start up (EUs: W205 and W207). [40 CFR 63.6625(h)]

- oo. The Permittee shall only use diesel fuel in each engine with a maximum sulfur content of 15 ppm and either a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume (EUs: W205 and W207). [40 CFR 63.6604]
- pp. The Permittee shall limit the concentration of CO in the exhaust to 230 ppmvd or less 15 percent oxygen for the diesel powered IC engines (EUs: W205 and W207). [40 CFR 63.6600(d)]
- qq. The Permittee shall comply with either condition (EUs: W205 and W207): [40 CFR 63.6625(g)]
  - i. Install a closed crankcase ventilation system that prevents crankcase emission from being emitted to the atmosphere; or
  - ii. Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates, and metals.
    - a. the Permittee shall follow manufacturer's specified maintenance requirements for operating and maintaining the open crankcase ventilation system and replace the crankcase filters as specified.
- rr. The Permittee shall operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instruction or develop their own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions (EUs: W205 and W207). [40 CFR 63.6625(e)]
- ss. The Permittee shall at all times operate and maintain the reciprocating IC engines, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source (EUs: W205 and W207). [40 CFR 63.6605(b)]
- tt. The Permittee shall use only diesel fuel with a maximum sulfur content of 15 ppm and either a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume in the diesel engines (EUs: W213, W214, W215, W216, and W217). [40 CFR 60.4207(a)]
- uu. The Permittee shall operate in such a manner that odors will not cause a nuisance. [AQR 43] (Local enforceability only)

- vv. The Permittee shall comply with the control requirements contained in this section. If there is inconsistency between standards or requirements, the most stringent standard or requirement shall apply. *[AQR 12.5.2.6(a)]*

### **C. Monitoring**

#### Aggregate Plant

1. This source is required to comply with the monitoring requirements in 40 CFR 60, Subpart OOO. *[NSR ATC Modification 5, Revision 0, Condition IV-C-1-Aggregate Plant (12/31/10)]*
2. The Permittee shall perform at least one visual emissions observation on each emission unit in the aggregate plant each day. Daily visual observations shall include the aggregate plants, which include control device stacks, (EUs: A01, A02, A04, A07, A08, A09, A12, A16, A17, A22, A23, A25, A27, A28, A30, A31, A33, A34, A35, A37, A38, A40, A42, A44, A46, A47, A49, A51, A52, A58, A60, A62, A65, A69, A72, A74, A77, A79, A82, A83, A85, A87, A89, A93, A95, A98, A102, A104a, A106, A127, A128, A130, A133, A136, A138, A141, A143, A145, A147, A149 and A151) while operating, to demonstrate compliance with the opacity limits. If visible emissions that appear to exceed the opacity limit(s) are observed, the opacity of emissions shall be visually determined in accordance with 40 CFR 60 Appendix A: Reference Method 9. Corrective actions shall be taken to minimize any emissions as soon as practicable *[AQR 26.1]*
3. The Permittee shall inspect the water spray system daily and investigate and correct any problems before resuming operations. *[NSR ATC Modification 5, Revision 0, Condition IV-C-3-Aggregate Plant (12/31/10)]*
4. The Permittee shall conduct daily monitoring of the pressure drop across each baghouse cell with the installation and operation of a pressure differential (Magnahelic) gauge per manufacturer's specifications. *[NSR ATC Modification 5, Revision 0, Condition IV-C-4-Aggregate Plant (12/31/10)]*
5. The Permittee shall visually inspect the baghouse interior at least monthly for air leaks. Defective baghouse compartments shall be sealed off and repairs completed within 5 working days of the discovery of the malfunction. Should the malfunction cause the baghouse to be ineffective in controlling particulate emissions, the processing of material shall cease until such repairs to the baghouse are completed. *[NSR ATC Modification 5, Revision 0, Condition IV-C-5-Aggregate Plant (12/31/10)]*
6. The Permittee shall have a standard operating procedures (SOP) manual for baghouses. The procedures specified in the manual for maintenance shall, at a minimum, include a preventative maintenance schedule that is consistent with the baghouse manufacturer's instructions for routine and long-term maintenance. *[NSR ATC Modification 5, Revision 0, Condition IV-C-6-Aggregate Plant (12/31/10)]*

#### MSWL - General

7. The Permittee shall perform at least one visual emissions observation on each emission unit in the MSWL each day. Daily visual observations shall include the haul roads, waste processing, cover material, LFG flares, waste placement, stockpiles and generator engines (EUs: G27, H01, H02, W01, W02, W03, W05,

W08, W09, W11, W205, W207, W214, W215, W216 and W217) while operating, to demonstrate compliance with the opacity limits. If visible emissions that appear to exceed the opacity limit(s) are observed, the opacity of emissions shall be visually determined in accordance with 40 CFR 60 Appendix A: Reference Method 9. Corrective actions shall be taken to minimize any emissions as soon as practicable. [AQR 26.1]

8. The Permittee shall demonstrate compliance with the minimum moisture content by conducting and recording bi-weekly sampling and analysis of materials less than 0.25 inch in diameter in accordance with ASTM Standard C 566-89: Standard Test Method for Total Moisture Content of Aggregate by Drying (EU: W02). [NSR ATC/OP Modification 4, Revision 1, Condition IV-E-4 (11/04/08)]
9. The Permittee shall demonstrate compliance with the annual maximum VOC emission specified in this permit for the Soil Treatment facility by recording the amount and VOC content of contaminated soil received on a daily basis. The Permittee shall calculate the total VOC emission using "Chemdat8" emission factor, for every consecutive 12-month period (EU: W02). [NSR ATC/OP Modification 4, Revision 1, Condition IV-E-10 (11/04/08)]
10. The Permittee shall demonstrate compliance annually with the maximum allowable biodegradable waste (one (1) percent of the total allowed waste of 200,000 tons/year) at the Industrial Waste facility by monitoring and recording percentage of biodegradable wastes dumped at the Industrial Waste facility (EU: W03). [NSR ATC/OP Modification 4, Revision 1, Condition IV-E-11 (11/04/08)]
11. The Permittee shall demonstrate compliance with the NMOC emission rate for the Industrial Waste facility by calculating the NMOC emission rate on an annual basis to ensure that the rate does not trigger the requirements in 40 CFR 60, Subpart WWW, using the procedures specified in 40 CFR 60.754 (EUs: W03 and W04). [NSR ATC/OP Modification 4, Revision 1, Condition IV-E-12 (11/04/08)]
12. If the actual or calculated NMOC emission rate is greater than 50 megagrams per year, the Permittee shall install a collection system and control system per 40 CFR Subpart WWW (EU: W04). [NSR ATC/OP Modification 4 Revision 1, Condition IV-B-30, 11/04/080]
13. The Permittee shall conduct daily inspections of the GDO equipment to ensure that the equipment is maintained and operated in a vapor tight and leak free manner, pursuant to the manufacturer's specifications (EU: W06). [NSR ATC Modification 8, Revision 1, Condition IV-C-1 (05/13/10)]
14. The Permittee shall monitor the evaporation pond water TDS content semi-annually. [AQR 12.5.2.6(a)]

#### Surface Methane Monitoring (EU: W100)

15. The Permittee shall monitor, on a quarterly basis, surface concentrations of methane using an organic vapor analyzer, flame ionization detector or other portable monitor meeting the following specifications: [40 CFR 60.755(c)(1)]
  - a. The portable analyzer shall meet the instrument specification provided in 40 CFR 60 Appendix A: Method 21, Section 3, except the "methane" shall

- replace references to VOC;
- b. The calibration gas shall be methane, diluted to a nominal concentration of 500 parts per million in air;
  - c. The instrument evaluation procedures of 40 CFR 60 Appendix A: Method 21, Section 4.4 shall be used to meet the performance evaluation requirements in Section 3.1.3; and
  - d. The calibration procedures provided in 40 CFR 60 Appendix A: Method 21, Section 4.2 shall be followed immediately before commencing a surface monitoring survey.
16. The Permittee shall monitor surface concentrations of methane on a quarterly basis around the perimeter of the collection area of the MSWL and along a pattern that traverses the landfill at 30 meter intervals and where visual observations indicate elevated concentrations of LFG, such as distressed vegetation and cracks or seeps in the cover. The Permittee may establish an alternative traversing pattern that ensures equivalent coverage. *[40 CFR 60.753(d)]*
  17. The Permittee shall develop a surface monitoring design plan that includes a topographical map with the monitoring route and the rationale for any site-specific deviations from the 30 meter intervals. This plan must be submitted to the Control Officer for review within 180 days of issuance of this permit and available during inspection. *[40 CFR 60.753(d) and AQR 12.5.3.6]*
  18. The Permittee shall determine the methane background concentration by moving the probe inlet upwind and downwind outside the boundary of the landfill at a distance of at least 30 meters from the perimeter wells. *[40 CFR 60.755(c)(2)]*
  19. The Permittee shall perform quarterly surface emission monitoring in accordance with 40 CFR 60 Appendix A: Method 21, Section 4.3.1, except that the probe inlet shall be placed within 5 to 10 centimeters of the ground. *[40 CFR 60.755(c)(3)]*
  20. The Permittee shall record any reading of 500 ppm or more of methane above background at any location as a monitored exceedance and shall take the following actions. As long as the following actions are taken, the exceedance is not a violation of the operation requirements of 40 CFR 60.753(d). *[40 CFR 60.755(c)(4)]*
    - a. The Permittee shall mark and record the location of each monitored exceedance;
    - b. The Permittee shall perform cover maintenance or make adjustments to the vacuum of the adjacent wells to increase the gas collection in the vicinity of each exceedance and shall re-monitor the location within 10 calendar days of detection of the exceedance;
    - c. If the re-monitoring of the location shows a second exceedance, the Permittee shall take additional corrective action and shall monitor the location again within 10 days of the second exceedance. If the re-monitoring shows a third exceedance for the same location, the Permittee shall take the action specified in Condition III-C-20-(e) and no further monitoring of that location is required until the action specified in Condition III-C-20-(e) has been taken;

- d. Any location that initially showed an exceedance but has a methane concentration less than 500 ppm above background at the 10-day re-monitoring specified in Condition III-C-20-(b) and (c) shall be re-monitored 1 month from the initial exceedance. If the 1-month re-monitoring shows a concentration less than 500 ppm above background, no further monitoring of that location is required until the next quarterly monitoring period. If the 1-month re-monitoring shows as exceedance, the actions specified in Condition III-C-20(c) and (e) shall be taken; and
  - e. For any location where monitored methane concentration equals or exceeds 500 ppm above background 3 times within a quarterly period, the Permittee shall install a new well or other collection device within 120 calendar days of the initial exceedance. An alternative remedy to the exceedance, such as upgrading the blower, header pipes or control device, and a corresponding timeline for installation may be submitted to the Administrator for approval.
21. The Permittee shall implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis. *[40 CFR 60.755(c)(5)]*

#### Post Construction Ambient Air Monitoring

22. The Permittee shall monitor ambient air for PM<sub>10</sub>. Placement and operation of the monitor shall be consistent with the relevant provision of 40 CFR 53. The Permittee shall submit quarterly reports of the data collected from the existing Anderson Beta Gauge PM<sub>10</sub> analyzer or equivalent unit. *[NSR ATC/OP Modification 4, Revision 1, Condition IV-D (11/04/08)]*

#### LFG Collection Monitoring

23. The Permittee shall install a sampling port and a thermometer, other temperature measuring device or an access port for temperature measurements at each wellhead of the active gas collection system and: *[40 CFR 60.756(a)(1) through (3)]*
- a. Measure the gauge pressure in the gas collection header on a monthly basis as provided in 40 CFR 60.755(a)(3);
  - b. Monitor nitrogen or oxygen concentration in the LFG on a monthly basis using Method 3C as provided in 40 CFR 60.755(a)(5); and
  - c. Monitor temperature of the LFG on a monthly basis as provided in 40 CFR 60.755(a)(5).
24. The Permittee shall measure the gauge pressure in the gas collection header at each individual well monthly. If a positive pressure exists, the Permittee shall initiate action to correct the exceedance within 5 calendar days, except for the three conditions allowed under 40 CFR 60.753(b). If negative pressure cannot be achieved without excess air infiltration within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial measurement of positive pressure. Any attempted corrective measure shall not cause exceedance of other operational or performance standards. An alternative timeline for correcting the exceedance may be submitted to the Control Officer for approval. *[40 CFR 60.755(a)(3)-(5)]*

### Desulfurization Control System Monitoring

25. The Permittee shall monitor the time and date of operation of the desulfurization system control device. [AQR 12. 4.3.1(e)(10)]
26. The Permittee shall monitor the LFG throughput, in standard cubic feet, to the desulfurization system control device, and calculate monthly the annual volume as a 12-month rolling total. [AQR 12. 4.3.1(e)(10)]
27. The Permittee shall continuously monitor the temperature of the media in the desulphurization plant electronically to comply with the temperature limit of this permit. The monitoring system shall be automated to provide notice (i.e. alarm) when the temperature exceeds the applicable limit. The Permittee shall record each exceedance that is observed, including the date, time, temperature and corrective action taken. The Permittee shall record the temperature of the media in a log at least once daily. [AQR 12.4.3.1(e)(10)]
28. The Permittee shall continuously monitor the pH of the media in the desulphurization plant electronically to comply with the pH range limit of this permit. The monitoring system shall be automated to provide notice (i.e. alarm) when the pH exceeds the applicable limit. The Permittee shall record each exceedance that is observed, including the date, time, pH and corrective action taken. The Permittee shall record the pH of the media in a log at least once daily. [AQR 12.4.3.1(e)(10)]

### Enclosed Combustion Flare Monitoring (EU: W11)

29. The Permittee shall calibrate, maintain and operate the following equipment on the enclosed combustion flare according to the manufacturer's specifications:
  - a. A temperature monitoring device equipped with a continuous recorder and having a minimum accuracy of  $\pm 1$  percent of the temperature being measured expressed in degrees Celsius or  $\pm 0.5$  degrees Celsius, whichever is greater. [40 CFR 60.756(b)]
  - b. A device that records flow to or bypass of the control device. The Permittee shall either:
    - i. install, calibrate, and maintain a gas flow rate measuring device that shall record the flow to the control device at least every 15 minutes; or
    - ii. secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.
30. The Permittee, after the installation of a collection and control system, shall calculate the NMOC emission rate for purposes of determining when the system can be removed as provided in 40 CFR 60.752(b)(2)(v), using the equation in 40 CFR 60.754(b). [40 CFR 60.754(b)]
  - a. The Permittee shall use the flow rate of LFG by measuring the total LFG flow rate at the common header pipe that leads to the control device using a gas

- flow measuring device calibrated according to the provisions in 40 CFR 60 Appendix A: Method 2E, Section 4.
- b. The Permittee shall determine the average NMOC concentration by collecting and analyzing LFG samples, from the common header pipe before the gas moving or condensate removal equipment, using the procedures in 40 CFR 60 Appendix A: Method 25C or Method 18.
  - c. The Permittee may use another method to determine LFG flow rate and NMOC concentration if the method has been approved by the Administrator.

#### Open Combustion Flare (EU: G27)

- 31. The Permittee shall install, calibrate, maintain, and operate according to the manufacturer's specifications the following equipment on the open combustion flare; *[40 CFR 60.756(c)]*
  - a. A heat sensing device, such as an ultraviolet beam sensor or thermocouple at the pilot light or the flame itself to indicate the continuous presence of a flame; and
  - b. A device that records LFG flow to or bypass of the open combustion flare. The Permittee shall either:
    - i. Install, calibrate, and maintain a gas flow rate measuring device that shall record the LFG flow to the control device at least every 15 minutes; or
    - ii. Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.
- 32. The Permittee shall monitor the visible emission from the open combustion flare on a quarterly basis by employing 40 CFR 60 Appendix A, Method 22. The observation period shall be 2 hours and shall comply with Method 22. *[40 CFR 60.18(f)(1)]*
- 33. The Permittee shall monitor the throughput of LFG to the open combustion flare on a monthly basis (EU: G27). LFG shall be monitored and recorded in cubic feet. *[AQR 12.5.2.6(a)]*
- 34. The Permittee shall conduct, each calendar quarter, a heating value analysis (Btu content) on the LFG consistent with EPA approved methods (or equivalent) or a net heating value analysis of the combustion LFG as outlined in 40 CFR 60.18(f)(3). *[40 CFR 60.18(f)(4)]*
- 35. The Permittee shall determine, each calendar quarter, the concentration of methane in the LFG by using 40 CFR 60 Appendix A: Method 3C. *[40 CFR 60.754(e)]*

#### Diesel Engines

- 36. The Permittee shall install non-resettable hour meters on the reciprocating IC engines (EUs: W205 and W207). *[AQR 12.5.2.6(a)]*

37. The Permittee shall ensure compliance with the provisions of 40 CFR 60, Subpart IIII contained within this document by demonstrating all of the following: *[40 CFR 60.424211(b)]*
  - a. Operation of the diesel engines (EUs: W213, W214, W215, W216 and W217) according to the manufacturer's written instructions or procedures developed by the Permittee that are approved by the engine manufacturer; and
  - b. The keeping of records of engine manufacturer data indicating compliance with the emission standards.

#### **D. Testing**

##### Aggregate Plant

1. Compliance with the opacity standards of this permit shall be demonstrated, in part, through performance testing in accordance with 40 CFR 60 Reference Method 9 (Standards for Opacity). *[NSR ATC Modification 5, Revision 0, Condition IV-D-1-Aggregate Plant (12/31/10)]*
2. The Permittee shall conduct performance testing for opacity standards on all emission units in the aggregate plant except mining and blasting (EUs: A02, A04, A07, A08, A09, A12, A16, A17, A22, A23, A25, A27, A28, A30, A31, A33, A34, A35, A37, A38, A40, A42, A44, A46, A47, A49, A51, A52, A58, A60, A62, A65, A69, A72, A74, A77, A79, A82, A83, A85, A87, A89, A93, A95, A98, A102, A104a, A106, A128, A130, A133, A136, A138, A141, A143, A145, A147, A149 and A151) according to the following conditions: *[NSR ATC Modification 5, Revision 0, Condition IV-D-2-Aggregate Plant (12/31/10)]*
  - a. The Permittee is required to comply with the performance testing requirements of 40 CFR 60, Subpart OOO.
  - b. Subsequent performance testing shall be conducted every five years.
3. Compliance with the mass emission standards of this permit and concentration standards in 40 CFR 60, Subpart OOO shall be demonstrated through performance testing in accordance with 40 CFR 60 Reference Method 5 or 17. *[40 CFR 60.675(b)(1)]*
4. The Permittee shall conduct performance testing on the baghouse stack exhaust points (EUs: A04, A09, A58, A62, A79, A104a, A130 and A151) according to the following conditions: *[NSR ATC Modification 5, Revision 0, Condition IV-D-4-Aggregate Plant (12/31/10)]*
  - a. The Permittee is required to comply with the performance testing requirements of 40 CFR 60, Subpart OOO.
  - b. Subsequent performance testing shall be conducted every five years.
5. Subsequent performance testing shall be conducted every five years on or before the anniversary date of the initial performance test in accordance with Table III-D-1. *[NSR ATC Modification 5, Revision 0, Condition IV-D-5-Aggregate Plant (12/31/10)]*

**TABLE III-D-1: Performance Test Frequency**

Emission Units	Description	Test Method	Pollutant	Frequency
A02, A04, A07, A08, A09, A12, A16, A17, A22, A23, A25, A27, A28, A30, A31, A33, A34, A35, A37, A38, A40, A42, A44, A46, A47, A49, A51, A52, A58, A60, A62, A65, A69, A72, A74, A77, A79, A82, A83, A85, A87, A89, A93, A95, A98, A102, A104a, A106, A128, A130, A133, A136, A138, A141, A143, A145, A147, A149 and A151	Aggregate Plant	EPA Method 9	Opacity	Initially and every 5 years
A04, A09, A58, A62, A79, A104a, A130 and A151	Process A Crushers	EPA Method 5 or Method 17	PM	Initially and every 5 years

MSWL – Gasoline Dispensing

6. The Permittee shall conduct vapor recovery system testing using the following procedures on the GDO equipment (EU: W06) pursuant to AQR Subsection 12.8.1 (amended 10/07/04). *[NSR ATC Modification 8, Revision 1, Condition IV-D-1 (05/13/10)]*
7. The Permittee shall follow the general performance testing requirements for the GDO equipment (EU: W06): *[NSR ATC Modification 8, Revision 1, Condition IV-D-2 (05/13/10)]*
  - a. Each vapor recovery system test shall be conducted in accordance with the applicable CARB Test Procedure that is required by the CARB EO;
  - b. The source shall give a 7-day written prior notice of the date of the test to the Control Officer;
  - c. Any prior approved scheduled vapor recovery system test cannot be canceled and/or rescheduled except with the prior approval of the Control Officer;
  - d. Within 7 days from the end of an initial or annual vapor recovery system test, the source shall submit a report containing the results of such test to the Control Officer;
  - e. The report shall have, as the first page of text or within the body of the test report form, a signed Certification of Performance Test Result;
  - f. If the source fails a performance test, the Control Officer shall be notified within 24 hours or by 12:00 p.m. (Noon) of Air Quality’s next business day, whichever is soonest. Repairs to correct the defects shall be made and a retest scheduled with the Control Officer. The retest shall be scheduled within 10 calendar days of the failed test. If the repairs and retest cannot be accomplished within 10 calendar days, the source must submit the reasons and a proposed date for retesting in writing to the Control Officer for approval; and
  - g. The source shall conduct performance tests listed in Table III-D-2:

**Table III-D-2: Required Performance Test Criterion**

Description	CARB Test Procedure	Standard
Pressure decay/leak: vapor control system including nozzles and underground tanks	TP-201.3	Initial: 2" wc Final: Reference Value

8. The Permittee shall conduct an annual test on the Vapor Recovery System for the GDO equipment (EU: W06) on a frequency as follows: *[NSR ATC Modification 8, Revision 1, Condition IV-D-4 (05/13/10)]*
  - a. Testing shall be accomplished prior to the anniversary date of the previous performance test that the source passed; and
  - b. Pursuant to AQR Section 4, the Control Officer may require additional testing.
9. The Permittee shall implement changes to the GDO equipment (EU: W06) existing vapor recovery system if any performance test results indicate such changes are necessary to maintain compliance with Modification 8, Revision 1 ATC. *[NSR ATC Modification 8, Revision 1, Condition IV-D-5 (05/13/10)]*

MSWL – Enclosed Flare and Desulphurization Plant

10. Performance testing for the enclosed combustion flare (EU: W11) and desulfurization system control device is subject to 40 CFR 60 Subpart A §60.8; 40 CFR Part 60 Subpart WWW and Air Quality's Guideline on Source Testing. *[AQR 12.4.3.1(a)(9), 40 CFR Part 60 Subpart A and 40 CFR 60.754(d)]*
11. The Permittee shall demonstrate compliance with the 40 CFR 60 Subpart WWW standard by reducing NMOC by 98 weight-percent or by reducing the outlet concentration of NMOC to less than 20 ppmv for the enclosed combustion flare (EU: W11) in accordance with 40 CFR 60 Appendix A: Method 25, 25C, or 18. Method 3 or 3A shall be used to determine oxygen for correcting the NMOC concentration as hexane to 3 percent. In cases where the outlet concentration is less than 50 ppm NMOC as carbon (8 ppm NMOC as hexane), Method 25A should be used in place of Method 25. If using Method 18, the minimum list of compounds to be tested shall be those published in the most recent Compilation of Air Pollutant emission Factors (AP-42). *[40 CFR 60.754(d)]*
12. The Permittee shall demonstrate compliance with the desulfurization control device control efficiency in accordance with 40 CFR 60 Appendix A: Method 15 – Determination of Hydrogen Sulfide, Carbonyl Sulfide, and Carbon Disulfide Emissions from Stationary Sources. *[AQR 12.4.3.1(a)(9)]*
13. The Permittee shall conduct subsequent performance testing on the enclosed combustion flare (EU: W11) for NMOC reduction no later than five years after the anniversary date of the previous performance test. *[AQR 12.4.3.1(a)(9)]*
14. The Permittee shall submit for approval a performance testing protocol which contains testing, reporting, and notification schedules, test protocols, and anticipated test dates to the Control Officer not less than 45 nor more than 90 days prior to the anticipated date of the performance test. *[AQR 12.4.3.1(a)(9)]*
15. The Permittee shall submit a complete and comprehensive final performance test report to the Control Officer within 60 days from the end of each performance test. *[AQR 12.4.3.1(e)(15)]*

MSWL – Diesel Engines

16. The Permittee shall performance test the IC engines per the requirements in 40 CFR 63.6612 (EUs: W205 and W207). [40 CFR 63.6612]
17. If the Permittee selects to comply with the emission limitation to reduce CO as specified in this permit, without the use of an oxidative catalyst, the Permittee shall petition the Administrator for operating limitations to be established during the initial performance test and continuously monitored thereafter; or for approval of no operating limitations. The Permittee shall not conduct the initial performance test until after the petition has been approved by the Control Officer. [40 CFR 63.6620(f)]
18. The Permittee shall submit a Notification of Intent to conduct a performance test and a test protocol to the Control Officer, at least 60 days before the performance test is scheduled to begin as required in 40 CFR 63.7(b)(1) (EUs: W205 and W207). [40 CFR 63.6645(f)]
19. The Permittee shall conduct initial performance tests in Table III-D-3 within 180 days after the compliance date that is specified for the stationary RICE in 40 CFR 63.6595 and according to the provisions in 40 CFR 63.7(a)(2) (EUs: W205 and W207). [40 CFR 63.6610(a) and 63.6612]

**Table III-D-3: Performance Test Methods for EUs: W205 and W207**

Reference	EPA Test Method
40 CFR Part 60 Appendix A	Method 10, or ASTM Method D6522-00
40 CFR Part 63 Appendix A	Method 320, or ASTM D6348-03

**E. Record Keeping**

Aggregate Plant

1. The Permittee shall comply with all applicable record keeping requirements of 40 CFR 60, Subpart OOO and any other applicable regulations. [AQR 12.5.2.6(d)(2)]
2. The Permittee shall maintain records on site that include at a minimum: [AQR 12.5.2.6(d)(2)]
  - a. Monthly and 12-month rolling total throughput for EUs: A01, A25, A36, A38, A62, A79, A108, A109, A130 and A136;
  - b. Daily and 12-month rolling total amount of surface area blasted (EU: A127);
  - c. Daily inspections of water spray systems;
  - d. Daily baghouse pressure differential (EUs: A108, A109, A112, A113, A114, A116, A118, A119, A122, A124, A125, and A126);
  - e. Monthly inspection and maintenance of baghouses;
  - f. Dates and time when visible emission observations are taken and the steps taken to make any necessary corrections to bring opacity into compliance; and
  - g. Performance test results.

MSWL

3. The Permittee shall maintain records on site that include at a minimum: [AQR 12.5.2.6(d)(2)]
- a. 12-month rolling total amount of Vehicle Miles Traveled on the Paved and Unpaved Haul Roads (EUs: H01 and H02);
  - b. Monthly and 12-month rolling total amount of material treated at the Soil Treatment facility (EUs: W01 and W02);
  - c. Monthly and 12-month rolling total amount of material treated at the Industrial Waste facility (EUs: W03 and W04);
  - d. Annual NMOC emission rate from the Industrial Waste facility calculated using the procedures specified in 40 CFR 60.754(a) to demonstrate that the Industrial Waste facility does not trigger the requirements per 40 CFR 60 Subpart WWW;
  - e. Annual acceptance rate for the MSWL with the current amount of solid waste in-place, and the year-by-year acceptance rate per 40 CFR 60.758(a);
  - f. Monthly and 12-month rolling total amount of cover material used (EU: W05);
  - g. Monthly and 12-month rolling total amount of gasoline in gallons (EU: W06);
  - h. Results of the quarterly surface concentration monitoring for methane (EU: W100);
  - i. Results of the quarterly background concentration monitoring for methane (EU: W100);
  - j. Reading and location of each surface monitoring exceedances during the surface concentration monitoring for methane (EU: W100);
  - k. Corrective actions taken and re-monitoring of any surface monitoring exceedance (EU: W100);
  - l. Monthly measurements of the gauge pressure in the gas collection header;
  - m. Monthly concentration of nitrogen or oxygen in the LFG;
  - n. Monthly temperature of the LFG;
  - o. Corrective actions taken if any exceedances were observed during the monthly wellhead monitoring for pressure, temperature or nitrogen/oxygen concentration;
  - p. Monthly landfill cover integrity and repairs implemented;
  - q. Quarterly calculated average of the hourly and rolling 12-month total LFG flow (in cubic feet or cubic meters) through the gas collection and control system;
  - r. Monthly estimates of enclosed combustion flare (EU: W11) emissions and a 12-month rolling total to be recorded;
  - s. A quarterly summary of the hours of operation of the enclosed combustion flare (EU: W11);
  - t. Continuous monitoring records of the combustion flare LFG flow/temperature (EU: W11);
  - u. Testing and maintenance of the pH/temperature continuous monitoring

- system (i.e. alarm) for the desulphurization system media;
- v. Daily temperature and pH of the desulphurization system media;
  - w. Each desulphurization system media temperature and/or pH exceedance triggered by the automated monitoring system (i.e. alarm) including the date, time, temperature and corrective action taken;
  - x. Calculated quarterly average of the flow rate and heat input to the enclosed combustion flare (EU: W11) in MMBtu per hour and in 12-month rolling total;
  - y. Quarterly Method 22 results for the open combustion flare (EU: G27);
  - z. LFG flow rate to the open combustion flare (EU: G27);
  - aa. Monthly and rolling 12-month total LFG flow to the open combustion flare (EU: G27);
  - bb. Quarterly LFG heating value analysis results in MMBtu/dscf;
  - cc. A quarterly summary describing the deviations, if any, per the SSM plan in the capture and control system;
  - dd. The nature, magnitude and duration of malfunctions, excess emissions, monitoring system downtimes, corrective actions taken, etc. during the operation of the open combustion flare and the enclosed combustion flare, as required by 40 CFR 60.7 (EUs: W11 and G27);
  - ee. Monthly and 12-month rolling total amount of waste placement (EU: W08);
  - ff. 12-month rolling total hours of operation for the diesel engines (EUs: W205 and W207)
  - gg. Sulfur content of diesel fuel used for diesel engines (EUs: W205, W207, W213, W214, W215, W216 and W217);
  - hh. Cetane index or aromatic content (in percent by volume) of diesel fuel combusted in (EUs: W213, W214, W215, W216, and W217);
  - ii. TDS content of the evaporation pond water;
  - jj. The Permittee shall submit the reports listed in Table 7 of 40 CFR Part 63 Subpart ZZZZ, as applicable and according to the requirements specified in 63.6650 by May 3, 2013 (EUs: W205 and W207);
  - kk. Vapor recovery system test results; and
  - ll. Performance test results.
4. The Permittee shall maintain GDO records on site: i.e. daily self-inspection records, daily logs, etc., or a copy thereof, for the Phase I, that at minimum shall contain the following information (EU: W06): *[NSR ATC Modification 8, Revision 1 Condition IV-E-4 (05/13/10)]*
- a. A record of any maintenance on any part of the Phase I equipment, including a general description of the maintenance;
  - b. The date and time the equipment was taken out-of-service;
  - c. The date of repair or replacement;
  - d. A general description of the part location (e.g., pump, tank, nozzle number,

- etc.)
- e. A description of the problem; and
  - f. The results of the daily inspections.
5. The Permittee shall maintain records for reports that include: *[40 CFR 60.757(f)]*
- a. Value and length of time for exceedance of applicable parameters monitored under 40 CFR 60.756(a), (b), (c), and (d);
  - b. Description and duration of all periods when the gas stream is diverted from the control device through a bypass line or the indication of bypass flow as specified under 40 CFR 60.756;
  - c. Description and duration of all periods when the control device was not operating for a period exceeding 1 hour and length of time the control device was not operating;
  - d. All periods when the collection system was not operating in excess of 5 days;
  - e. The location of each exceedance of the 500 parts per million methane concentration as provided in 40 CFR 60.753(d) and the concentration recorded at each location for which an exceedance was recorded in the previous month; and
  - f. The date of installation and the location of each well or collection system expansion added pursuant to paragraphs (a)(3), (b), and (c)(4) of 40 CFR 60.755.
6. All inspections, visible emission checks, and testing required under monitoring, logs, reports, and records shall include at least the date and time, the name of the person performing the action, the results or findings, and the type of corrective action taken (if required). *[AQR 12.5.2.6(d)]*
7. Records and data required by this Operating Permit to be maintained by Permittee may, at the Permittee's expense, be audited at any time by a third party selected by the Control Officer. *[AQR 4.4 and AQR 12.5.2.8]*
8. Should this stationary source, as defined in 40 CFR 68.3, become subject to the accidental release prevention regulation in Part 68, then the Permittee shall submit an RMP by the date specified in Section 68.10 and shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 CFR 70 or 71. *[AQR 12.5.2.6(d)]*
9. All records and logs, or a copy thereof, shall be kept on-site for a minimum of five (5) years from the date the measurement was taken or data was entered and shall be made available to Air Quality upon request. *[AQR 12.5.2.6(d)]*
10. The Control Officer reserves the right to require additional requirements concerning records and record keeping for this source. *[AQR 12.5.2.6(d)]*

## **F. Reporting**

1. All report submissions shall be addressed to the attention of the Control Officer. *[AQR 12.5.2.8(e)(4), AQR 21.4, and AQR 22.4]*

2. All reports shall contain the following: *[AQR 12.5.2.6(d)]*
  - a. A certification statement on the first page, i.e., "I certify that, based on information and beliefs formed after reasonable inquiry, the statements contained in this document are true, accurate and complete." (A sample form is available from Air Quality); and
  - b. A certification signature from a responsible official of the company and the date certification.
3. The Permittee shall include deviations specified in 40 CFR 63.1965 in its quarterly and annual reports. Specified deviations include periods when:
  - a. A deviation occurs when the control device operating parameter boundaries described in 40 CFR 60.758(c)(1) of Subpart WWW are exceeded; and
  - b. A deviation occurs when 1 hour or more of the hours during the 3-hour block averaging period does not constitute a valid hour of data. A valid hour of data must have measured values for at least three 15-minute monitoring periods within the hour.
4. The Permittee shall submit quarterly reports to the Control Officer in accordance with the following requirements: *[AQR 12.5.2.6(d)]*
  - a. The report shall include the items listed in Conditions III-E-2-a and b, Conditions III-E-3-a through jj, and Condition III-E-5.
  - b. The report shall include summaries of any permit deviations, their probable cause and corrective or preventative actions taken.
  - c. The report shall be based on a calendar quarter, which includes partial calendar quarters.
  - d. The report shall be received by Air Quality within 30 calendar days after the reporting period.
5. The Permittee shall submit annual emissions inventory reports based on the following: *[AQR 18.6.1]*
  - a. The annual emissions inventory shall be submitted to Air Quality no later than March 31 after the reporting year.
  - b. The annual emissions inventory report shall include the emission factors and calculations used to determine the emissions from each permitted emission unit, even when an emission unit is not operated.
6. Regardless of the date of issuance of this Operating Permit, the source shall comply with the schedule for report submissions outlined in Table III-F-1:

**Table III-F-1: Required Submission Dates for Various Reports**

Required Report	Applicable Period	Due Date <sup>1</sup>
Quarterly Report for 1 <sup>st</sup> Calendar Quarter	January, February, March	April 30 each year
Quarterly Report for 2 <sup>nd</sup> Calendar Quarter	April, May, June	July 30 each year
Quarterly Report for 3 <sup>rd</sup> Calendar Quarter	July, August, September	October 30 each year
Quarterly Report for 4 <sup>th</sup> Calendar Quarter, Any additional annual records required.	October, November, December	January 30 each year
Annual Compliance Certification Report	12 Months	30 days after the Operating Permit issuance anniversary date
Annual Emission Inventory Report	Calendar Year	March 31 each year
Excess Emission Notification	As Required	Within 24 hours of the time the Permittee first learns of the excess emissions
Excess Emission Report	As Required	Within 72 hours of the Excess Emission Notification
Deviation Report	As Required	Included with quarterly reports
Performance Testing	As Required	Within 60 days from the end of the test

<sup>1</sup> Each report shall be received by Air Quality on or before the due date listed. If the due date falls on a Saturday, Sunday or a Federal or Nevada holiday, then the submittal is due on the next regularly scheduled business day.

7. The Control Officer reserves the right to require additional reports and reporting to verify compliance with permit emission limits, applicable permit requirements, and requirements of applicable federal regulations. *[AQR 4.4 and AQR 12.5.2.6(d)]*

**G. Mitigation**

1. The source has no federal offset requirements. *[AQR 59.1.1]*

**IV. OTHER REQUIREMENTS**

1. The Permittee shall not use, sell, or offer for sale any fluid as a substitute material for any motor vehicle, residential, commercial, or industrial air conditioning system, refrigerator freezer unit, or other cooling or heating device designated to use a CFC or HCFC compound as a working fluid, unless such fluid has been approved for sale in such use by the Administrator. The Permittee shall keep record of all paperwork relevant to the applicable requirements of 40 CFR 82 on site. *[40 CFR 82]*

## ATTACHMENT 1 APPLICABLE REGULATIONS

### REQUIREMENTS SPECIFICALLY IDENTIFIED AS APPLICABLE:

1. NRS, Chapter 445B.
2. Applicable AQR Sections:

Citation	Title
AQR Section 0	Definitions
AQR Section 4	Control Officer
AQR Section 5	Interference with Control Officer
AQR Section 8	Persons Liable for Penalties – Punishment: Defense
AQR Section 9	Civil Penalties
AQR Section 10	Compliance Schedule
AQR Section 11	Ambient Air Quality Standards
AQR Section 12 Through June 30, 2010	Preconstruction Review for New or Modified Stationary Sources
AQR Section 12.5	Part 70 Operating Permit Requirements
AQR Section 13.2(b)(62) AQR Section 13.2(b)(85) AQR Section 13.2(b)(109)	National Emission Standards for Hazardous Air Pollutants: NESHAP – Subpart AAAA: Municipal Solid Waste Landfills Subpart ZZZZ: Stationary Reciprocating Internal Combustion Engines Subpart CCCCCC: Gasoline Dispensing Facilities
AQR Section 14.1.74 AQR Section 14.1.82 AQR Section 14.1.90	Standards of Performance for New Stationary Sources (NSPS) – Subpart OOO: Nonmetallic Mineral Processing Plants Subpart WWW: Municipal Solid Waste Landfill Subpart IIII: Stationary Compression Ignition Internal Combustion Engines
AQR Section 18	Permit and Technical Service Fees
AQR Section 25	Affirmative Defense for Excess Emissions due to Malfunctions, Startup and Shutdown
AQR Section 26	Emissions of Visible Air Contaminants
AQR Section 28	Fuel Burning Equipment
AQR Section 40	Prohibition of Nuisance Conditions
AQR Section 41	Fugitive Dust
AQR Section 42	Open Burning
AQR Section 43	Odors in the Ambient Air
AQR Section 60	Evaporation and Leakage
AQR Section 70	Emergency Procedures
AQR Section 80	Circumvention

3. CAAA, Authority: 42 U.S.C. 7401, et seq.
4. Applicable 40 CFR Subsections:

Citation	Title
40 CFR 52.21	Prevention of Significant Deterioration (PSD)
40 CFR 52.1470	SIP Rules

Citation	Title
40 CFR 60	Appendix A, Method 9 or equivalent, (Opacity)
40 CFR 60, Subpart A	Standards of Performance for New Stationary Sources (NSPS) – General Provisions
40 CFR 60, Subpart OOO	Standards of Performance for New Stationary Sources (NSPS) – Nonmetallic Mineral Processing Plants
40 CFR 60, Subpart WWW	Standards of Performance for New Stationary Sources (NSPS) – Municipal Solid Waste Landfill
40 CFR 60, Subpart IIII	Standards of Performance for New Stationary Sources (NSPS) – Compression Ignition Internal Combustion Engines
40 CFR 63, Subpart AAAA	National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfill
40 CFR 63, Subpart ZZZZ	National Emission Standards for Hazardous Air Pollutants: Stationary Reciprocating Internal Combustion Engines
40 CFR 68	Risk Management Plan
40 CFR 70	Federally Mandated Operating Permits
40 CFR 82	Protection of Stratospheric Ozone