

FACILITY PERMIT TO OPERATE SUNSHINE CANYON LANDFILL

Facility Equipment and Requirements (Section D)

This section consists of a table listing all permitted equipment at the facility, facility wide requirements, all individual Permits to Operate issued to various equipment at the facility, and Rule 219-exempt equipment subject to source-specific requirements. Each permit and Rule 219-exempt equipment will list operating conditions including periodic monitoring requirements, and applicable emission limits and requirements that the equipment is subject to. Also included is the rule origin and authority of each emission limit and permit condition.

FACILITY PERMIT TO OPERATE SUNSHINE CANYON LANDFILL

PERMITTED EQUIPMENT LIST

THE FOLLOWING IS A LIST OF ALL PERMITS TO OPERATE AT THIS FACILITY:

Application number	Permit to Operate number	Equipment description	Page
457396	F86506	FLARE, ENCLOSED LANDFILL/DIGESTER GAS	6
207173	F23230	FLARE, ENCLOSED LANDFILL/DIGESTER GAS	11
330383	F9412	FLARE, ENCLOSED LANDFILL/DIGESTER GAS	16
387641	F43463	AIR POLLUTION CONTROL SYSTEM	19
412777	F63135	LANDFILL GAS COLLECTION SYSTEM	21
501513	TBD	LEACHATE/CONDENSATE COLLECTION AND TREATMENT	25

NOTE: ANY APPLICATIONS THAT ARE STILL BEING PROCESSED AND HAVE NOT BEEN ISSUED PERMITS TO CONSTRUCT AND/OR PERMITS TO OPERATE WILL NOT BE FOUND IN THIS TITLE V PERMIT.

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FACILITY WIDE CONDITION(S)

Condition(s):

1. EXCEPT FOR OPEN ABRASIVE BLASTING OPERATIONS, THE OPERATOR SHALL NOT DISCHARGE INTO THE ATMOSPHERE FROM ANY SINGLE SOURCE OF EMISSIONS WHATSOEVER ANY AIR CONTAMINANT FOR A PERIOD OR PERIODS AGGREGATING MORE THAN THREE MINUTES IN ANY ONE HOUR WHICH IS:
 - A. AS DARK OR DARKER IN SHADE AS THAT DESIGNATED NO. 1 ON THE RINGLEMANN CHART, AS PUBLISHED BY THE UNITED STATES BUREAU OF MINES; OR
 - B. OF SUCH OPACITY AS TO OBSCURE AN OBSERVER'S VIEW TO A DEGREE EQUAL TO OR GREATER THAN DOES SMOKE DESCRIBED IN SUBPARAGRAPH (A) OF THIS CONDITION. [RULE 401]
2. THE OPERATOR SHALL NOT PURCHASE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 500 PPM BY WEIGHT. ON OR AFTER JUNE 1, 2004, THE OPERATOR SHALL NOT PURCHASE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 15 PPM BY WEIGHT. [RULE 431.2]
3. THE OWNER/OPERATOR OF A MSW LANDFILL SHALL COMPLY WITH THE FOLLOWING:
 - A. INSTALL AND OPERATE A WIND SPEED AND DIRECTION MONITORING SYSTEM WITH A CONTINUOUS RECORDER. FOR WIND SPEED, USE A 3 CUP ASSEMBLY WITH A RANGE OF 0 TO 50 MILES AN HOUR, WITH A THRESHOLD OF 0.75 MILE PER HOUR OR LESS. FOR WIND DIRECTION, USE A VANE WITH A RANGE OF 0 TO 540 DEGREES AZIMUTH, WITH A THRESHOLD OF PLUS-MINUS 2 DEGREES. AN APPROVED ALTERNATIVE MAY BE USED IN LIEU OF THE ABOVE. [RULE 1150.1]
 - B. MONITOR AND COLLECT MONTHLY, OR AS PER THE APPROVED 1150.1 ALTERNATIVE, SAMPLES FOR ANALYSIS OF TOC AND TAC FROM THE SUBSURFACE REFUSE BOUNDARY SAMPLING PROBES. [RULE 1150.1]
 - C. OPERATE THE COLLECTION SYSTEM TO PREVENT THE CONCENTRATION OF TOC MEASURED AS METHANE FROM EXCEEDING 5% BY VOLUME IN THE SUBSURFACE REFUSE BOUNDARY SAMPLING PROBES. [RULE 1150.1]
 - D. COLLECT MONTHLY, OR AS PER THE APPROVED 1150.1 ALTERNATIVE, INTEGRATED SAMPLES FOR ANALYSIS OF TOC AND TAC FROM THE LANDFILL SURFACE. [RULE 1150.1]

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- E. OPERATE THE COLLECTION SYSTEM TO PREVENT THE CONCENTRATION OF TOC MEASURED AS METHANE FROM EXCEEDING 50 PPMV AS DETERMINED BY INTEGRATED SAMPLES TAKEN ON NUMBERED 50,000 SQUARE FOOT LANDFILL GRIDS OR AS PER THE APPROVED 1150.1 ALTERNATIVE
[RULE 1150.1]
 - F. MONITOR QUARTERLY, OR AS PER THE APPROVED 1150.1 ALTERNATIVE, THE LANDFILL SURFACE FOR TOC EACH QUARTER, OR AS APPROVED, FROM THE SURFACE OF THE LANDFILL
[RULE 1150.1]
 - G. OPERATE THE COLLECTION SYSTEM TO PREVENT THE CONCENTRATION OF TOC MEASURED AS METHANE FROM EXCEEDING 500 PPMV ABOVE BACKGROUND AS DETERMINED BY INSTANTANEOUS MONITORING AT ANY LOCATION ON THE LANDFILL, EXCEPT AT THE OUTLET OF ANY CONTROL DEVICE.
[RULE 1150.1]
 - H. COLLECT MONTHLY, OR AS PER THE APPROVED 1150.1 ALTERNATIVE, LANDFILL GAS SAMPLES FOR ANALYSIS OF TOC AND TAC FROM THE MAIN GAS COLLECTION HEADER LINE ENTERING THE GAS TREATMENT AND/OR GAS CONTROL SYSTEM.
[RULE 1150.1]
 - I. COLLECT MONTHLY, OR AS PER THE APPROVED 1150.1 ALTERNATIVE, AMBIENT AIR SAMPLES FOR ANALYSIS OF TOC AND TAC FROM THE LANDFILL PROPERTY BOUNDARY.
[RULE 1150.1]
- 4 THE OWNER/OPERATOR OF A MSW LANDFILL SHALL COMPLY WITH THE FOLLOWING:
- A. OPERATE THE COLLECTION SYSTEM SUCH THAT THE GAS IS COLLECTED FROM EACH AREA, CELL OR GROUP OF CELLS OF THE LANDFILL IN WHICH THE INITIAL SOLID WASTE HAS BEEN IN PLACE FOR A PERIOD OF;
 - (1) 5 YEARS OR MORE IF ACTIVE; OR
 - (2) 2 YEARS OR MORE IF CLOSED OR AT FINAL GRADE
 - B. OPERATE THE COLLECTION SYSTEM WITH NEGATIVE PRESSURE AT EACH WELL-HEAD EXCEPT UNDER THE FOLLOWING CONDITIONS:
 - (1) DURING A FIRE OR INCREASED WELL TEMPERATURE - THE OWNER/OPERATOR SHALL RECORD THE INSTANCES WHEN POSITIVE PRESSURE OCCURS IN EFFORTS TO PREVENT A FIRE. THIS REPORT SHALL BE SUBMITTED WITH THE ANNUAL REPORTS AS PROVIDED IN §60.757(6)(1).
 - (2) WHENEVER A GEOMEMBRANE OR SYNTHETIC COVER IS IN PLACE- THE OWNER/OPERATOR SHALL DEVELOP ACCEPTABLE PRESSURE LIMITS IN THE DESIGN PLAN.
 - (3) WHEN A WELL IS DECOMMISSIONED - A WELL MAY EXPERIENCE A STATIC POSITIVE PRESSURE AFTER SHUT DOWN TO ACCOMMODATE FOR DECLINING FLOWS.

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- C. OPERATE EACH INTERIOR WELLHEAD IN THE COLLECTION SYSTEM WITH A LANDFILL GAS TEMPERATURE LESS THAN 55 DEGREES C AND WITH EITHER A NITROGEN LEVEL LESS THAN 20% OR AN OXYGEN LEVEL LESS THAN 5% AS DETERMINED BY METHODS DESCRIBED IN §60.753(c).
- D. OPERATE THE COLLECTION SYSTEM SO THAT THE METHANE CONCENTRATION IS LESS THAN 500 PPM ABOVE BACKGROUND AT THE SURFACE OF THE LANDFILL AS DETERMINED IN ACCORDANCE WITH MONITORING PROCEDURES SPECIFIED IN §60.753 AND 60.754.
- E. OPERATE THE COLLECTION SYSTEM SUCH THAT ALL COLLECTED GASES ARE VENTED TO A CONTROL SYSTEM DESIGNED AND OPERATED IN COMPLIANCE WITH §60.752(b)(2)(iii).
- F. OPERATE THE COLLECTION AND CONTROL SYSTEM IN COMPLIANCE WITH TEST METHODS AND PROCEDURES OF §60.754
- G. OPERATE THE COLLECTION AND CONTROL SYSTEM IN COMPLIANCE WITH COMPLIANCE PROVISIONS OF §60.755
- H. OPERATE THE COLLECTION AND CONTROL SYSTEM IN COMPLIANCE WITH MONITORING PROCEDURES OF §60.756
- I. OPERATE THE COLLECTION AND CONTROL SYSTEM IN COMPLIANCE WITH REPORTING REQUIREMENTS OF §60.757
- J. OPERATE THE COLLECTION AND CONTROL SYSTEM IN COMPLIANCE WITH RECORD KEEPING REQUIREMENTS OF §60.758

[GASEOUS EMISSIONS: 40CFR60 SUBPART WWW]

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PERMIT TO CONSTRUCT/OPERATE

Permit No. F86506
A/N 457396

Equipment Description:

LANDFILL GAS FLARING SYSTEM NO. 8 CONSISTING OF:

1. CONDENSATE KNOCKOUT DRUM, 6'-0" DIA. X 10'-0" SEAM TO SEAM HEIGHT, WITH A MIST ELIMINATOR.
2. CONDENSATE PUMP, 1 H.P., 3 GPM, SERVING A CONDENSATE KNOCKOUT DRUM AND A PARTICULATE FILTER.
3. THREE BLOWERS, LAMPSON, MODEL 362-6D, EACH 45 H.P., ONE BLOWER FOR STANDBY, VENTING THE LANDFILL GAS COLLECTION SYSTEM.
4. PARTICULATE FILTER, PEERLESS, 3'-0' DIA. X 10'-6" H.
5. TWO FLAME ARRESTORS, ONE FOR LANDFILL GAS AND ONE FOR VAPORS FROM THE LEACHATE TREATMENT SYSTEM.
6. FLARE, MCGILL, MODEL NO. EGF-125, 13'-0' DIA. X 50'-0" H. WITH A MULTI-JET BURNER, PROPANE GAS PILOT, ELECTRIC IGNITER, UV FLAME SENSOR, AUTOMATIC SHUTDOWN AND ALARM SYSTEM, AUTOMATIC COMBUSTION AIR REGULATING SYSTEM AND TEMPERATURE CONTROLLER.
7. LANDFILL GAS FLOW METER WITH A RECORDER.
8. LANDFILL GAS EMERGENCY SHUT-OFF VALVE.

Conditions:

1. OPERATION OF TIES EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE OPERATED AND MAINTAINED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]

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4. A SET OF FOUR SAMPLING PORTS SHALL BE INSTALLED IN THE FLARE SHROUD AND LOCATED AT LEAST TWO FEET ABOVE THE FLAME ZONE AND AT LEAST SIX AND ONE HALF FEET BELOW THE TOP OF THE FLARE SHROUD. EACH PORT SHALL CONSIST OF A FOUR-INCH COUPLING WITH PLUG. ADEQUATE AND SAFE ACCESS TO ALL SOURCE TEST PORTS SHALL BE PROVIDED WITHIN 24 HOURS OF A REQUEST BY THE AQMD TO CONDUCT A TEST.
[RULE 217]
5. A SAMPLING PORT SHALL BE MAINTAINED AT THE INLET GAS LINE TO THE FLARE TO ALLOW LANDFILL GAS SAMPLING AND FLOW MEASUREMENT.
[RULE 217, 431.1, 1150.1]
6. THE FLARE SHALL BE EQUIPPED WITH A CONTINUOUS TEMPERATURE INDICATOR AND RECORDER WHICH MEASURES AND RECORDS THE GAS TEMPERATURE IN THE FLARE STACK. THE TEMPERATURE INDICATOR AND RECORDER SHALL OPERATE WHENEVER THE FLARE IS IN OPERATION. THE THERMOCOUPLE USED TO MEASURE THE TEMPERATURE SHALL BE AT LEAST TWO FEET ABOVE THE FLAME ZONE AND AT LEAST SIX AND ONE HALF FEET BELOW THE TOP OF THE FLARE SHROUD AND AT LEAST 0.6 SECONDS DOWNSTREAM OF THE BURNER.
[RULE 1150.1, 1303 (a)(1)-BACT, 40CFR 60.756(b)(1)]
7. WHENEVER THE FLARE IS IN OPERATION, A TEMPERATURE OF NOT LESS THAN 1600 DEGREES F, AS MEASURED BY THE TEMPERATURE INDICATOR AND RECORDER, SHALL BE MAINTAINED IN THE FLARE STACK.
[RULE 1303 (a)(1)-BACT]
8. THE SKIN TEMPERATURE OF THE FLARE SHROUD WITHIN FOUR FEET OF ALL THE SOURCE TEST PORTS SHALL NOT EXCEED 250 DEGREES F. IF A BEAT SHIELD IS REQUIRED TO MEET THIS REQUIREMENT, ITS DESIGN SHALL BE APPROVED BY THE AQMD PRIOR TO CONSTRUCTION. THE HEAT SHIELD, IF REQUIRED TO MEET THE TEMPERATURE REQUIREMENT, SHALL BE IN PLACE WHENEVER A SOURCE TEST IS CONDUCTED BY THE AQMD.
[RULE 217]
9. A SUFFICIENT NUMBER OF SIGHT GLASS WINDOWS SHALL BE MAINTAINED IN THE FLARE TO ALLOW VISUAL INSPECTION OF THE FLAME WITHIN THE FLARE AT ALL TIMES. PERMANENT AND SAFE ACCESS SHALL BE PROVIDED FOR ALL SIGHT GLASS WINDOWS.
[RULE 217, 1303(a)(1)-BACT]
10. A FLOW INDICATOR AND RECORDER SHALL BE MAINTAINED IN THE LANDFILL GAS SUPPLY LINE TO THE FLARE TO MEASURE AND RECORD THE GAS FLOW RATE (IN SCFM) TO THE FLARE AT LEAST EVERY FIFTEEN MINUTES AND SHALL OPERATE WHENEVER THE FLARE IS IN OPERATION.
[RULE 1150.1, 1303 (b)(2)-OFFSET, 40CFR 60.756(b)(2)(i)]
11. THE TOTAL VOLUME OF LANDFILL GAS BURNED IN THE FLARE SHALL NOT EXCEED 4,167 STANDARD CUBIC FEET PER MINUTE.
[RULE 1303 (b)(2)-OFFSET]

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12. EMISSIONS RESULTING FROM THE FLARE SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	LBS/HOUR
NOX	6.3
SOX	3.8
CO	3.7
PM	0.64
ROG	0.63

[RULE 1303 (b)(2)-OFFSET]

13. THE OWNER OR OPERATOR SHALL CONDUCT A TEST ANNUALLY OR PER THE APPROVED 1150.1 COMPLIANCE PLAN. THE TEST SHALL BE PERFORMED IN ACCORDANCE WITH AQMD APPROVED TEST PROCEDURES AND WRITTEN TEST RESULTS SHALL BE FURNISHED TO THE AQMD WITHIN SIXTY DAYS AFTER TESTING. WRITTEN NOTICE OF THE TEST SHALL BE PROVIDED TO THE AQMD THIRTY DAYS PRIOR TO THE TESTING SO THAT AN OBSERVER MAY BE PRESENT. IN ADDITION TO THE TEST REQUIREMENTS OF RULE 1150.1 AND THE APPROVED 1150.1 COMPLIANCE PLAN FOR NONMETHANE ORGANIC COMPOUNDS AND TOXIC COMPOUNDS, THE TEST SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF THE FLARE FOR:

- A. LANDFILL GAS COMPOSITION AND HEATING VALUE (INLET)
- B. LANDFILL GAS FLOW RATE, SCFM (INLET)
- C. TOTAL SULFUR COMPOUNDS AS H₂S, PPMV (INLET)
- D. TEMPERATURE, DEGREES F (EXHAUST)
- E. FLOW RATE, DSCFM (EXHAUST)
- F. NOX, LBS/HR (EXHAUST)
- G. SOX, LBS/HR (EXHAUST)
- H. CO, LBS/HR (EXHAUST)
- I. TOTAL PARTICULATES, LBS/HR (EXHAUST)

THE TEST SHALL BE CONDUCTED AT THE MAXIMUM FLOW RATE AVAILABLE AT THE TIME OF THE TEST BUT NOT TO EXCEED THE FLOW RATE ALLOWED BY THIS PERMIT.

[RULE 1303 (b)(2)-OFFSET, 3004(a)(4)-PERIODIC MONITORING]

14. THE FOLLOWING FLARE FAILURE ALARMS WHICH SHALL INCLUDE AN AUTOMATIC NOTIFICATION SYSTEM, AN AUTOMATIC BLOWER AND A LANDFILL GAS SUPPLY VALVE SHUT-OFF SYSTEM APPROVED BY THE AQMD, SHALL BE MAINTAINED AND TESTED EVERY SIX MONTHS FOR PROPER OPERATION AND THE RESULTS RECORDED:

- A. FLARE FLAME OUT
- B. LOW FLARE STACK TEMPERATURE
- C. HIGH FLARE STACK TEMPERATURE
- D. EXCESSIVE VIBRATION
- E. LOW BLOWER DISCHARGE PRESSURE.

[RULE 1303 (a)(1)-BACT]

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15. A PRESSURE SENSING DEVICE WITH AN AUTOMATIC BLOWER SHUT OFF SYSTEM SHALL BE MAINTAINED IN THE BLOWER DISCHARGE LINE TO DETECT PRESSURE DROP DUE TO LANDFILL GAS LEAKS AND SHALL BE TESTED EVERY SIX MONTHS FOR PROPER OPERATION AND THE RESULTS RECORDED.
[RULE 1303 (a)(1)-BACT]
16. A PRESSURE DIFFERENTIAL INDICATOR SHALL BE MAINTAINED ACROSS THE PARTICULATE FILTER.
[RULE 1303 (a)(1)-BACT]
17. A PRESSURE DIFFERENTIAL INDICATOR SHALL BE MAINTAINED ACROSS THE FLAME ARRESTOR.
[RULE 1303 (a)(1)-BACT]
18. THE HEAT RELEASE OF LANDFILL GAS BURNED IN THIS FLARE SHALL NOT EXCEED 105 MILLION BTU/HR.
[RULE 1303 (b)(2)-OFFSET]
19. LANDFILL GAS ENTERING THE FLARE SHALL BE ANALYZED WEEKLY FOR HEATING VALUE AND METHANE CONCENTRATION. RESULTS SHALL BE RECORDED AND PROVIDED TO THE AQMD UPON REQUEST.
[RULE 1303 (b)(2)- OFFSET]
20. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.
[RULE 1303 (b)(2)- OFFSET]
21. ALL RECORDS SHALL BE KEPT FOR A PERIOD OF AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO THE AQMD UPON REQUEST. A RECORD OF THE HOURS OF FLARE OPERATION SHALL BE INCLUDED.
[RULE 1150.1, 1303 (b)(2)- OFFSET]
22. ANY BREAKDOWN OR MALFUNCTION OF THE LANDFILL GAS FLARE SYSTEM RESULTING IN THE EMISSION OF RAW LANDFILL GAS SHALL BE REPORTED TO THE AQMD WITHIN ONE HOUR AFTER OCCURRENCE, AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 430]
23. THIS PERMIT SHALL EXPIRE IF CONSTRUCTION OF THIS EQUIPMENT IS NOT COMPLETE WITHIN ONE YEAR FROM THE DATE OF ISSUANCE OF THIS PERMIT UNLESS AN EXTENSION IS GRANTED BY THE EXECUTIVE OFFICER.
[RULE 204]

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Emissions and Requirements:

24. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

NMOC: 20 PPMV OR 98% WEIGHT REDUCTION, RULE 1150.1, 40CFR60 SUBPART WWW, 40CFR63 SUBPART AAAA.

CO: 2000 PPMV, RULE 407

PM: 0.1 GR/DSCF, RULE 409

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO OPERATE SUNSHINE CANYON LANDFILL

PERMIT TO OPERATE

Permit No. F23230
A/N 207173

Equipment Description:

LANDFILL GAS FLARING SYSTEM NO. 3 CONSISTING OF:

1. CONDENSATE KNOCKOUT DRUM, 6'-0" DIA. X 10'-0" SEAM TO SEAM HEIGHT, WITH A MIST ELIMINATOR.
2. CONDENSATE PUMP, 1 H.P., 3 GPM, SERVING A CONDENSATE KNOCKOUT DRUM AND A PARTICULATE FILTER.
3. THREE BLOWERS, LAMPSON, MODEL 362-6D, EACH 45 H.P., ONE BLOWER FOR STANDBY, VENTING THE LANDFILL GAS COLLECTION SYSTEM.
4. PARTICULATE FILTER, PEERLESS, 3'-0" DIA. X 10'-6" H.
5. TWO FLAME ARRESTORS, ONE FOR LANDFILL GAS AND ONE FOR VAPORS FROM THE LEACHATE TREATMENT SYSTEM.
6. FLARE, MCGILL, MODEL NO. EGF-125, 13'-0" DIA. X 50'-0" H. WITH A MULTI-JET BURNER, PROPANE GAS PILOT, ELECTRIC IGNITER, UV FLAME SENSOR, AUTOMATIC SHUTDOWN AND ALARM SYSTEM, AUTOMATIC COMBUSTION AIR REGULATING SYSTEM AND TEMPERATURE CONTROLLER.
7. LANDFILL GAS FLOW METER WITH A RECORDER.
8. LANDFILL GAS EMERGENCY SHUT-OFF VALVE.

Conditions:

1. OPERATION OF TIES EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE OPERATED AND MAINTAINED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]

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4. A SET OF FOUR SAMPLING PORTS SHALL BE INSTALLED IN THE FLARE SHROUD AND LOCATED AT LEAST TWO FEET ABOVE THE FLAME ZONE AND AT LEAST SIX AND ONE HALF FEET BELOW THE TOP OF THE FLARE SHROUD. EACH PORT SHALL CONSIST OF A FOUR-INCH COUPLING WITH PLUG. ADEQUATE AND SAFE ACCESS TO ALL SOURCE TEST PORTS SHALL BE PROVIDED WITHIN 24 HOURS OF A REQUEST BY THE AQMD TO CONDUCT A TEST.
[RULE 217]
5. A SAMPLING PORT SHALL BE MAINTAINED AT THE INLET GAS LINE TO THE FLARE TO ALLOW LANDFILL GAS SAMPLING AND FLOW MEASUREMENT.
[RULE 217, 431.1, 1150.1]
6. THE FLARE SHALL BE EQUIPPED WITH A CONTINUOUS TEMPERATURE INDICATOR AND RECORDER WHICH MEASURES AND RECORDS THE GAS TEMPERATURE IN THE FLARE STACK. THE TEMPERATURE INDICATOR AND RECORDER SHALL OPERATE WHENEVER THE FLARE IS IN OPERATION. THE THERMOCOUPLE USED TO MEASURE THE TEMPERATURE SHALL BE AT LEAST TWO FEET ABOVE THE FLAME ZONE AND AT LEAST SIX AND ONE HALF FEET BELOW THE TOP OF THE FLARE SHROUD AND AT LEAST 0.6 SECONDS DOWNSTREAM OF THE BURNER.
[RULE 1150.1, 1303 (a)(1)-BACT, 40CFR 60.756(b)(1)]
7. WHENEVER THE FLARE IS IN OPERATION, A TEMPERATURE OF NOT LESS THAN 1600 DEGREES F, AS MEASURED BY THE TEMPERATURE INDICATOR AND RECORDER, SHALL BE MAINTAINED IN THE FLARE STACK.
[RULE 1303 (a)(1)-BACT]
8. THE SKIN TEMPERATURE OF THE FLARE SHROUD WITHIN FOUR FEET OF ALL THE SOURCE TEST PORTS SHALL NOT EXCEED 250 DEGREES F. IF A HEAT SHIELD IS REQUIRED TO MEET THIS REQUIREMENT, ITS DESIGN SHALL BE APPROVED BY THE AQMD PRIOR TO CONSTRUCTION. THE HEAT SHIELD, IF REQUIRED TO MEET THE TEMPERATURE REQUIREMENT, SHALL BE IN PLACE WHENEVER A SOURCE TEST IS CONDUCTED BY THE AQMD.
[RULE 217]
9. A SUFFICIENT NUMBER OF SIGHT GLASS WINDOWS SHALL BE MAINTAINED IN THE FLARE TO ALLOW VISUAL INSPECTION OF THE FLAME WITHIN THE FLARE AT ALL TIMES. PERMANENT AND SAFE ACCESS SHALL BE PROVIDED FOR ALL SIGHT GLASS WINDOWS.
[RULE 217, 1303 (a)(1)-BACT]
10. A FLOW INDICATOR AND RECORDER SHALL BE MAINTAINED IN THE LANDFILL GAS SUPPLY LINE TO THE FLARE TO MEASURE AND RECORD THE GAS FLOW RATE (IN SCFM) TO THE FLARE AT LEAST EVERY 15 MINUTES AND SHALL OPERATE WHENEVER THE FLARE IS IN OPERATION.
[RULE 1150.1, 1303 (b)(2)-OFFSET, 40CFR 60.756(b)(2)(i)]
11. THE TOTAL VOLUME OF LANDFILL GAS BURNED IN THE FLARE SHALL NOT EXCEED 4,167 STANDARD CUBIC FEET PER MINUTE.
[RULE 1303 (b)(2)-OFFSET]

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12. EMISSIONS RESULTING FROM THE FLARE SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	LBS/HOUR
NOX	6.0
SOX	3.8
CO	4.1
PM	1.6
ROG	0.25

[RULE 1303 (b)(2)-OFFSET]

13. THE OWNER OR OPERATOR SHALL CONDUCT A TEST ANNUALLY OR PER THE APPROVED 1150.1 COMPLIANCE PLAN. THE TEST SHALL BE PERFORMED IN ACCORDANCE WITH AQMD APPROVED TEST PROCEDURES AND WRITTEN TEST RESULTS SHALL BE FURNISHED TO THE AQMD WITHIN SIXTY DAYS AFTER TESTING. WRITTEN NOTICE OF THE TEST SHALL BE PROVIDED TO THE AQMD THIRTY DAYS PRIOR TO THE TESTING SO THAT AN OBSERVER MAY BE PRESENT. IN ADDITION TO THE TEST REQUIREMENTS OF RULE 1150.1 AND THE APPROVED 1150.1 COMPLIANCE PLAN FOR NONMETHANE ORGANIC COMPOUNDS AND TOXIC COMPOUNDS, THE TEST SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF THE FLARE FOR:

- A. LANDFILL GAS COMPOSITION AND HEATING VALUE (INLET)
- B. LANDFILL GAS FLOW RATE, SCFM (INLET)
- C. TOTAL SULFUR COMPOUNDS AS H₂S, PPMV (INLET)
- D. TEMPERATURE, DEGREES F (EXHAUST)
- E. FLOW RATE, DSCFM (EXHAUST)
- F. NOX, LBS/HR (EXHAUST)
- G. SOX, LBS/HR (EXHAUST)
- H. CO, LBS/HR (EXHAUST)
- I. TOTAL PARTICULATES, LBS/HR (EXHAUST)

THE TEST SHALL BE CONDUCTED AT THE MAXIMUM FLOW RATE AVAILABLE AT THE TIME OF THE TEST BUT NOT TO EXCEED THE FLOW RATE ALLOWED BY THIS PERMIT.

[RULE 1303 (a)(1)-BACT]

14. THE FOLLOWING FLARE FAILURE ALARMS WHICH SHALL INCLUDE AN AUTOMATIC NOTIFICATION SYSTEM, AN AUTOMATIC BLOWER AND A LANDFILL GAS SUPPLY VALVE SHUT-OFF SYSTEM APPROVED BY THE AQMD, SHALL BE MAINTAINED AND TESTED EVERY SIX MONTHS FOR PROPER OPERATION AND THE RESULTS RECORDED:

- A. FLARE FLAME OUT
- B. LOW FLARE STACK TEMPERATURE
- C. HIGH FLARE STACK TEMPERATURE
- D. EXCESSIVE VIBRATION
- E. LOW BLOWER DISCHARGE PRESSURE.

[RULE 1303 (a)(1)-BACT]

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15. A PRESSURE SENSING DEVICE WITH AN AUTOMATIC BLOWER SHUT OFF SYSTEM SHALL BE MAINTAINED IN THE BLOWER DISCHARGE LINE TO DETECT PRESSURE DROP DUE TO LANDFILL GAS LEAKS AND SHALL BE TESTED EVERY SIX MONTHS FOR PROPER OPERATION AND THE RESULTS RECORDED.
[RULE 1303 (a)(1)-BACT]
16. A PRESSURE DIFFERENTIAL INDICATOR SHALL BE MAINTAINED ACROSS THE PARTICULATE FILTER.
[RULE 1303 (a)(1)-BACT]
17. A PRESSURE DIFFERENTIAL INDICATOR SHALL BE MAINTAINED ACROSS THE FLAME ARRESTOR.
[RULE 1303 (a)(1)-BACT]
18. THE HEAT RELEASE OF LANDFILL GAS BURNED IN THIS FLARE SHALL NOT EXCEED 105 MILLION BTU/HR.
[RULE 1303 (b)(2)-OFFSET]
19. LANDFILL GAS ENTERING THE FLARE SHALL BE ANALYZED WEEKLY FOR HEATING VALUE AND METHANE CONCENTRATION. RESULTS SHALL BE RECORDED AND PROVIDED TO THE AQMD UPON REQUEST.
[RULE 1303 (b)(2)-OFFSET]
20. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.
[RULE 1303 (b)(2)-OFFSET]
21. ALL RECORDS SHALL BE KEPT FOR A PERIOD OF AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO THE AQMD UPON REQUEST. A RECORD OF THE HOURS OF FLARE OPERATION SHALL BE INCLUDED.
[RULE 1303 (b)(2)-OFFSET]
22. ANY BREAKDOWN OR MALFUNCTION OF THE LANDFILL GAS FLARE SYSTEM RESULTING IN THE EMISSION OF RAW LANDFILL GAS SHALL BE REPORTED TO THE AQMD WITHIN ONE HOUR AFTER OCCURRENCE, AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 430]

Emissions and Requirements:

23. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

NMOC: 20 PPMV OR 98% WEIGHT REDUCTION, RULE 1150.1, 40CFR60 SUBPART WWW, 40CFR63 SUBPART AAAA

CO: 2000 PPMV, RULE 407

PM: 0.1 GR/DSCF, RULE 409

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO OPERATE SUNSHINE CANYON LANDFILL

Periodic Monitoring:

24. APPLICANT SHALL CONDUCT PERFORMANCE TEST OF THE FLARE IN ACCORDANCE WITH AQMD TEST PROCEDURES AND FURNISH THE AQMD A WRITTEN RESULT OF SUCH PERFORMANCE TEST WITHIN 60 DAYS AFTER TESTING. WRITTEN NOTICE OF THE PERFORMANCE TEST SHALL BE PROVIDED TO THE AQMD 10 DAYS PRIOR TO THE TEST SO THAT AN OBSERVER MAY BE PRESENT. THE PERFORMANCE TEST SHALL BE CONDUCTED AT THE EXHAUST OF THE FLARE ONCE EVERY FIVE YEARS FOR NOX, CO AND PM.
[RULE 3004]

FACILITY PERMIT TO OPERATE SUNSHINE CANYON LANDFILL

PERMIT TO OPERATE

Permit No. F9412
A/N 330383

Equipment Description:

LANDFILL GAS FLARING SYSTEM CONSISTING OF:

1. CONDENSATE KNOCKOUT DRUM, 6'-0" DIA. X 12'-0" H. SEAM TO SEAM.
2. THREE BLOWERS, EACH 2292 SCFM, 40 H.P.
3. DRY SCRUBBER, PEERLESS, 3'-0" DIA. X 10'-6" H.
4. FLARE, MCGILL, MODEL NO. EGF-125, 13'-0" DIA. X 50'-0" H. WITH A MULTI-JET BURNER, PROPANE GAS PILOT, ELECTRIC IGNITER, UV FLAME SENSOR, AUTOMATIC SHUTDOWN AND ALARM SYSTEM, AUTOMATIC COMBUSTION AIR REGULATING SYSTEM AND TEMPERATURE CONTROLLER.
5. LANDFILL GAS FLOW METER AND RECORDER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE OPERATED AND MAINTAINED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. A CONTINUOUS TEMPERATURE INDICATOR AND RECORDER TO MEASURE AND RECORD THE GAS TEMPERATURE (IN DEGREES F) IN THE FLARE STACK SHALL BE OPERATED WHENEVER THE FLARE IS IN OPERATION.
[RULE 1150.1, 1303 (a)(1)-BACT, 40CFR 60.756(b)(1)]
5. WHENEVER THE FLARE IS IN OPERATION, A TEMPERATURE OF NOT LESS THAN 1600 DEGREES F., AS MONITORED BY THE TEMPERATURE INDICATOR AND RECORDER, SHALL BE MAINTAINED IN THE FLARE STACK EXCEPT THAT A TEMPERATURE DROP OF UP TO 100 DEGREES F. IS ALLOWED FOR NO MORE THAN THREE MINUTES IN ANY ONE HOUR.
[RULE 1303 (a)(1)-BACT]

FACILITY PERMIT TO OPERATE SUNSHINE CANYON LANDFILL

6. THE FLOW INDICATING AND RECORDING DEVICE SHALL BE MAINTAINED IN THE LANDFILL GAS SUPPLY LINE TO THE FLARE TO MEASURE AND RECORD THE GAS FLOW RATE (IN SCFM) TO THE FLARE AT LEAST EVERY 15 MINUTES AND SHALL OPERATE WHENEVER THE FLARE IS IN OPERATION.
[RULE 1150.1, 1303 (b)(2)-OFFSET, 40CFR 60.756(b)(2)(i)]
7. THE TOTAL VOLUME OF LANDFILL GAS BURNED IN THE FLARE SHALL NOT EXCEED 4167 DRY STANDARD CUBIC FEET PER MINUTE (6.0 MILLION DRY STANDARD CUBIC FEET PER DAY).
[RULE 1303 (b)(2)-OFFSET]
8. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.
[RULE 1303 (b)(2)-OFFSET]
9. THE FOLLOWING FLARE FAILURE ALARMS, WHICH SHALL INCLUDE AN AUTOMATIC NOTIFICATION SYSTEM AND AN AUTOMATIC BLOWER AND LANDFILL GAS INLET VALVE SHUT-OFF SYSTEM, SHALL BE MAINTAINED:
 - A. FLARE FLAME OUT
 - B. LOW FLARE STACK TEMPERATURE
 - C. HIGH FLARE STACK TEMPERATURE
 - D. HIGH BLOWER DISCHARGE TEMPERATURE
 - E. EXCESSIVE VIBRATION[RULE 1303 (a)(1)-BACT]
10. THE FLARE FAILURE ALARMS SHALL BE TESTED AND THE RESULTS RECORDED ONCE EVERY SIX MONTHS.
[RULE 217]
11. THE FLAME IN THE FLARE SHALL REMAIN AT LEAST TWO FEET BELOW THE TEMPERATURE SENSOR AT ALL TIMES.
[RULE 1303 (a)(1)-BACT]
12. A SET OF FOUR SAMPLING PORTS SHALL BE MAINTAINED IN THE FLARE STACK AT LEAST TWO FEET ABOVE THE FLAME ZONE AND AT LEAST SIX AND ONE HALF FEET BELOW THE TOP OF THE FLARE STACK 90 DEGREES APART. EACH SAMPLING PORT SHALL CONSIST OF A FOUR INCH COUPLING WITH CAP. ADEQUATE AND SAFE ACCESS TO ALL TEST PORTS SHALL BE PROVIDED WITHIN FOUR HOURS OF A REQUEST BY THE AQMD TO CONDUCT A TEST.
[RULE 217]
13. A SAMPLE PORT SHALL BE MAINTAINED IN THE INLET GAS LINE TO THE FLARE TO ALLOW THE COLLECTION OF A LANDFILL GAS SAMPLE.
[RULE 217, 431.1, 1150.1]
14. THE SKIN TEMPERATURE OF THE FLARE STACK WITHIN FOUR FEET OF THE SOURCE TEST PORTS SHALL NOT EXCEED 250 DEGREES F. A HEAT SHIELD, IF REQUIRED TO MEET THE TEMPERATURE REQUIREMENT, SHALL BE IN PLACE WHENEVER A SOURCE TEST IS CONDUCTED BY THE AQMD.
[RULE 217]

FACILITY PERMIT TO OPERATE SUNSHINE CANYON LANDFILL

15. EMISSIONS RESULTING FROM THE FLARE SHALL NOT EXCEED THE FOLLOWING:
- | POLLUTANT | LBS/DAY |
|-----------|---------|
| ROG | 23 |
| NOX | 174 |
| SOX | 107 |
| CO | 104 |
| PM10 | 41 |
- [RULE 1303 (b)(2)-OFFSET]
16. LANDFILL GAS ENTERING THE FLARE SHALL BE ANALYZED WEEKLY FOR HEATING VALUE AND METHANE CONCENTRATION. RESULTS SHALL BE RECORDED AND PROVIDED TO AQMD PERSONNEL UPON REQUEST.
[RULE 1303 (b)(2)-OFFSET]
17. THE HEAT RELEASE OF LANDFILL GAS BURNED IN THIS FLARE SHALL NOT EXCEED 105 MILLION BTU/HR.
[RULE 1303 (b)(2)-OFFSET]
18. ALL RECORDS SHALL BE KEPT FOR A PERIOD OF AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1150.1, 1303 (b)(2)-OFFSET]

Emissions and Requirements:

19. NMOC: 20 PPMV OR 98% WEIGHT REDUCTION, RULE 1150.1, 40CFR60 SUBPART WWW, 40CFR63 SUBPART AAAA
CO: 2000 PPMV, RULE 407
PM: 0.1 GR/DSCF, RULE 409
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

Periodic Monitoring:

20. APPLICANT SHALL CONDUCT PERFORMANCE TEST OF THE FLARE IN ACCORDANCE WITH AQMD TEST PROCEDURES AND FURNISH THE AQMD A WRITTEN RESULT OF SUCH PERFORMANCE TEST WITHIN 60 DAYS AFTER TESTING. WRITTEN NOTICE OF THE PERFORMANCE TEST SHALL BE PROVIDED TO THE AQMD 10 DAYS PRIOR TO THE TEST SO THAT AN OBSERVER MAY BE PRESENT. THE PERFORMANCE TEST SHALL BE CONDUCTED AT THE EXHAUST OF THE FLARE ONCE EVERY FIVE YEARS FOR NOX, CO AND PM.
[RULE 3004]

FACILITY PERMIT TO OPERATE SUNSHINE CANYON LANDFILL

PERMIT TO OPERATE

Permit No. F43463
A/N 387641

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF TWO CARBON ADSORBERS, IN SERIES, EACH WITH 2000 LBS OF ACTIVATED CARBON, VENTING TWO AIR STRIPPERS FROM THE LANDFILL LEACHATE/CONDENSATE HANDLING AND TREATING SYSTEM.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. A FLOW INDICATOR SHALL BE INSTALLED AND MAINTAINED AT THE INLET TO THE CARBON ADSORBERS TO INDICATE THE FLOW RATE IN STANDARD CUBIC FEET PER MINUTE (SCFM). IN CASE A PRESSURE SENSOR DEVICE IS USED IN PLACE OF THE FLOW INDICATOR, A CONVERSION CHART SHALL BE POSTED ON THE EQUIPMENT TO INDICATE THE FLOW RATE (IN CFM) CORRESPONDING TO THE PRESSURE READING.
[RULE 1303 (b)(2)-OFFSET]
4. THE TOTAL FLOW RATE AT THE INLET TO THE CARBON ADSORBERS SHALL NOT EXCEED 1000 SCFM.
[RULE 1303 (b)(2)-OFFSET]
5. GRAB SAMPLES SHALL BE COLLECTED AT THE OUTLET OF EACH CARBON VESSEL ONCE EVERY QUARTER. EACH SAMPLE SHALL BE ANALYZED FOR VOC AS HEXANE (PPMV) IN ACCORDANCE WITH AQMD APPROVED METHODS AND THE SAMPLE FROM THE SECONDARY OUTLET SHALL BE SPECIATED FOR CHLOROFORM IN ACCORDANCE WITH AQMD APPROVED METHODS.
[RULE 1303 (b)(2)-OFFSET]
6. WHENEVER THE OUTLET OF THE PRIMARY ADSORBER EXCEEDS 50 PPMV, AS HEXANE, THE AIR POLLUTION CONTROL SYSTEM SHALL BE SHUT DOWN AND THE PRIMARY ADSORBER REPLACED WITH FRESH CARBON OR WITH THE SECONDARY VESSEL AND THE SECONDARY VESSEL REPLACED WITH FRESH CARBON.
[RULE 1303 (b)(2)-OFFSET]

FACILITY PERMIT TO OPERATE SUNSHINE CANYON LANDFILL

7. VOC EMISSIONS AT THE OUTLET OF THE CARBON SYSTEM SHALL NOT EXCEED 50 PPMV AS HEXANE.
[RULE 1303 (b)(2)-OFFSET]
8. CHLOROFORM EMISSIONS AT THE OUTLET OF THE CARBON SYSTEM SHALL NOT EXCEED 2 PPMV.
[RULE 1401]
9. THE STACK HEIGHT SHALL BE A MINIMUM OF 14'-0" ABOVE GRADE.
[RULE 1303 (a)(1)-BACT]
10. RECORDS SHALL BE MAINTAINED AS REQUIRED BY THIS PERMIT FOR AT LEAST TWO YEARS AND BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1303 (b)(2)-OFFSET]

FACILITY PERMIT TO OPERATE SUNSHINE CANYON LANDFILL

PERMIT TO OPERATE

Permit No. F63135
A/N 412777

Equipment Description:

LANDFILL GAS COLLECTION SYSTEM CONSISTING OF:

1. CITY SITE, UP TO TWO HUNDRED SIXTY FIUR (264) VERTICAL LANDFILL GAS COLLECTION WELLS, 44,000 LINEAR FEET OF HORIZONTAL COLLECTORS AND ASSOCIATED PIPING.
2. COUNTY SITE, UP TO TWO HUNDRED SEVENTY (270) VERTICAL LANDFILL GAS COLLECTION WELLS, 60,000 LINEAR FEET OF HORIZONTAL COLLECTORS AND ASSOCIATED PIPING.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE OPERATED AND MAINTAINED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. DURING WELL DRILLING, AN APPROVED EMISSION CONTROL BOX SHALL BE PLACED OVER THE WELL HOLE TO COLLECT LANDFILL GAS. THE COLLECTED GAS SHALL EITHER BE DIRECTED TO AN OPERATING FLARE SYSTEM WHICH HAS A VALID PERMIT ISSUED BY THE AQMD, OR VENTED TO A CARBON ADSORPTION UNIT WHICH HAS SUFFICIENT CAPACITY TO REMOVE ODORS WHEN THERE IS NO OPERATIONAL GAS COLLECTION/FLARING SYSTEM AVAILABLE NEARBY.
[RULE 402]
5. WELL DRILLING, DRIVING AND/OR TRENCHING SHALL NOT BE CONDUCTED BETWEEN THE HOURS OF 6 P.M. AND 7 A.M. OR ON SATURDAYS, SUNDAYS OR LEGAL HOLIDAYS, UNLESS OTHERWISE APPROVED BY THE AOMD.
[RULE 402, 1150]

FACILITY PERMIT TO OPERATE SUNSHINE CANYON LANDFILL

6. WELL DRILLING, DRIVING, AND/OR TRENCHING SHALL NOT BE CONDUCTED ON DAYS WHEN THE AQMD FORECASTS SECOND OR THIRD STAGE EPISODES FOR AREA NO. 13, OR WHEN THE AQMD REQUIRES COMPANIES IN AREA NO. 13 TO IMPLEMENT THEIR SECOND OR THIRD STAGE EPISODE PLANS. EPISODE FORECASTS FOR THE FOLLOWING DAY CAN BE OBTAINED BY CALLING (800) 288-7664.
[RULE 402, 1150]
7. WELL DRILLING, DRIVING AND/OR TRENCHING SHALL NOT BE CONDUCTED WHEN THE WIND SPEED IS GREAT ENOUGH TO CREATE VISIBLE DUST, EVEN WITH THE APPLICATION OF WATER, BEYOND 100 FEET FROM WORKING AREA.
[RULE 402, 403, 1150]
8. THE CONSTRUCTION OF ANY PIPING OR WELL TRENCH WHICH EXPOSES LANDFILL TRASH TO THE ATMOSPHERE SHALL BE STAGED SUCH THAT NO MORE THAN THREE HUNDRED (300) LINEAR FEET OF TRENCH IS EXPOSED AT ANY TIME PRIOR TO BACKFILLING.
[RULE 402, 1150]
9. WELL HOLES, TRENCHES, AND EXPOSED LANDFILL TRASH SHALL BE COMPLETELY COVERED TO PREVENT ANY EMISSIONS OF LANDFILL GAS TO THE ATMOSPHERE WHENEVER WORK IS NOT ACTIVELY IN PROGRESS. THE COVER SHALL INCLUDE, BUT MAY NOT BE LIMITED TO A MINIMUM OF 6 INCHES OF CLEAN DIRT, APPROVED FOAM, OR HEAVY-DUTY PLASTIC SHEETING. FOAM BY ITSELF SHALL NOT BE USED AS A NIGHT COVER IF IT IS RAINING OR RAIN IS PREDICTED BY THE NATIONAL WEATHER SERVICE PRIOR TO THE NEXT SCHEDULED WORKING DAY.
[RULE 402, 1150.1]
10. FOR PURPOSES OF THIS PERMIT, CONSTRUCTION SPOILS ARE LANDFILL TRASH, MATERIAL THAT IS MIXED WITH LANDFILL TRASH, MATERIAL THAT HAS BEEN IN CONTACT WITH LANDFILL TRASH, OR ODOROUS MATERIAL THAT IS REMOVED FROM WELL HOLES OR TRENCHES.
[RULE 402, 403, 1150]
11. CONSTRUCTION SPOILS AND ALL WORKING AREAS BEING ACTIVELY USED FOR TRUCK AND CONSTRUCTION EQUIPMENT TRAFFICKING SHALL BE MAINTAINED IN A MOIST CONDITION TO MINIMIZE DUST AND EMISSIONS.
[RULE 402, 403, 1150]
12. ALL CONSTRUCTION SPOILS SHALL BE TRANSPORTED TO THE ACTIVE WORKING FACE OF THE LANDFILL WITHIN ONE HOUR OF GENERATION OR AS DEEMED NECESSARY BY AQMD PERSONNEL.
[RULE 402, 1150]
13. DURING TRANSPORT OF THE CONSTRUCTION SPOILS, NO MATERIAL SHALL EXTEND ABOVE THE SIDES OR REAR OF THE VEHICLE HAULING THE MATERIAL.
[RULE 1150]
14. THE EXTERIOR OF THE VEHICLE (INCLUDING THE TIRES) HAULING THE CONSTRUCTION SPOILS SHALL BE CLEANED OFF PRIOR TO LEAVING THE WORKING SITE.
[RULE 1150]

FACILITY PERMIT TO OPERATE SUNSHINE CANYON LANDFILL

25. THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE MITIGATION MEASURES STIPULATED IN THE STATEMENT OF FINDINGS, STATEMENT OF OVERRIDING CONSIDERATIONS AND MITIGATION MONITORING PLAN DOCUMENT WHICH IS PART OF THE CERTIFIED ENVIRONMENTAL IMPACT REPORT.
[RULE 204]

Emissions and Requirements:

26. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

GASEOUS EMISSIONS: RULE 1150, 40CFR60 SUBPART WWW, 40CFR63 SUBPART AAAA

FACILITY PERMIT TO OPERATE SUNSHINE CANYON LANDFILL

15. IF A DISTINCT ODOR LEVEL (LEVEL III OR GREATER) RESULTING FROM THE CONSTRUCTION IS DETECTED AT OR BEYOND THE PROPERTY LINE, ALL WORK SHALL CEASE UNTIL THE ODOR SOURCES ARE DETERMINED AND ELIMINATED. ODOR LEVELS SHALL BE DETERMINED BY AQMD PERSONNEL OR ON-SITE SAFETY COORDINATOR IN THE ABSENCE OF SCAQMD PERSONNEL
[RULE 402, 1150]
16. DURING CONSTRUCTION, IF A CONSIDERABLE NUMBER OF COMPLAINTS ARE RECEIVED, ALL WORK SHALL CEASE AND APPROVED MITIGATION MEASURES SHALL BE IMPLEMENTED IMMEDIATELY. WORK SHALL NOT RESUME UNTIL THE EMISSIONS CAUSING THE COMPLAINTS IS MITIGATED AND THE APPROVAL TO RESUME WORK IS RECEIVED FROM THE AQMD.
[RULE 402, 1150]
17. MITIGATION MEASURES, OTHER THAN THOSE INDICATED IN THESE CONDITIONS, WHICH ARE DEEMED APROPRIATE BY AOMD PERSONNEL AS NECESSARY TO PROTECT THE COMFORT, REPOSE, HEALTH OR SAFETY OF THE PUBLIC SHALL BE IMPLEMENTED UPON REQUEST.
[RULE 402, 1150]
18. EACH WELL HEAD SHALL BE EQUIPPED WITH A SHUT-OFF VALVE AND A SAMPLING PORT.
[RULE 1150.1]
19. UNTIL CONNECTED TO AN OPERATING LANDFILL GAS COLLECTION SYSTEM, EACH COMPLETED WELL SHALL BE CAPPED AND ITS GAS CONTROL VALVE CLOSED TO AVOID VENTING LANDFILL GAS TO THE ATMOSPHERE.
[RILE 1150, 1150.1]
20. EACH WELL SHALL BE SECURELY SEALED TO PREVENT ANY EMISSIONS OF LANDFILL GAS FROM AROUND THE WELL CASING
[RULE 402, 1150.1]
21. ALL OPENINGS OF THIS SYSTEM INCLUDING CONDENSATE REMOVAL EQUIPMENT SHALL BE PROPERLY COVERED AND SEALED TO PREVENT ANY VAPORS FROM ENTERING INTO THE ATMOSPHERE.
[RULE 402, 1150]
22. ALL GASES COLLECTED BY THIS SYSTEM SHALL BE VENTED TO A COMBUSTION OR PROCESSING FACILITY WHICH IS IN FULL USE, CAN ADEQUATELY PROCESS THE VOLUME OF GAS COLLECTED, AND HAS BEEN ISSUED A VALID PERMIT TO CONSTRUCT OR OPERATE BY THE AQMD.
[RULE 1150.1, 1303 (a)(1)-BACT, 1401, 40CFR60 SUBPART WWW]
23. THE OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF ANY RAW LANDFILL GAS OR CONDENSATE INTO THE ATMOSPHERE.
[RULE 402, 1150]
24. EACH VERTICAL WELL SHALL BE CONNECTED TO AN OPERATING LANDFILL GAS HEADER AS SOON AS POSSIBLE.
[RULE 402, 1150.1]

FACILITY PERMIT TO OPERATE SUNSHINE CANYON LANDFILL

PERMIT TO CONSTRUCT/OPERATE

Permit No.
A/N 501513

Equipment Description

MODIFICATION OF THE LANDFILL LEACHATE/CONDENSATE COLLECTION AND TREATMENT SYSTEM
CONSISTING OF:

1. HOLDING TANK, LEACHATE/CONDENSATE, 20'-0" DIA x 21'-0" H, 50,000 GALLONS WITH A CARBON FILTERED VENT.
2. TWO STORAGE TANKS, SODIUM HYPOCHLORITE, EACH 500 GALLONS.
3. THREE PARTICULATE FILTERS, LEACHATE/CONDENSATE, EACH 30 GPM..
4. TWO AIR STRIPPERS, NEEP SYSTEMS, MODEL 2331-P, SHALLOW TRAY, EACH 3'-6" DIA X 5'-9" H.
5. TWO AIR BLOWERS, EACH 7.5 HP, 300 SCFM, SERVING THE AIR STRIPPERS.
6. TWO HOLDING TANKS, TREATED WATER, EACH 50,000 GALLONS, EACH 20'-0" DIA X 21'-0" H.
7. CARBON ADSORBER, FINAL EFFLUENT POLISHING, 2'-0" DIA X 8'-0" H.
8. STORAGE TANK, SEEP WATER, 10,000 GALLONS, 12'-0" DIA X 10'-0" H AND ASSOCIATED PUMPS.
9. STORAGE/SURGE TANK, EFFLUENT, 5,000 GALLONS, 10'-0" DIA X 12'-0" H.

BY THE REMOVAL OF:

1. HOLDING TANK, LEACHATE/CONDENSATE, 20'-0" DIA x 21'-0" H, 50,000 GALLONS WITH A CARBON FILTERED VENT.
2. ONE STORAGE TANK, SODIUM HYPOCHLORITE.
3. TWO AIR STRIPPERS, NEEP SYSTEMS, MODEL 2331-P, SHALLOW TRAY, EACH 3'-6" DIA X 5'-9" H.
4. TWO AIR BLOWERS, EACH 7.5 HP, 300 SCFM, SERVING THE AIR STRIPPERS.
5. TWO HOLDING TANKS, TREATED WATER, EACH 50,000 GALLONS, EACH 20'-0" DIA X 21'-0" H.
6. CARBON ADSORBER, FINAL EFFLUENT POLISHING, 2'-0" DIA X 8'-0" H.
7. STORAGE TANK, SEEP WATER, 10,000 GALLONS, 12'-0" DIA X 10'-0" H AND ASSOCIATED PUMPS.

FACILITY PERMIT TO OPERATE SUNSHINE CANYON LANDFILL

AND THE ADDITION OF THE FOLLOWING LOCATED NEAR THE LANDFILL SEWER DISCHARGE AREA OR SITE ENTRANCE:

1. INFLUENT STORAGE TANK, LEACHATE/CONDENSATE, 8,000 GALLONS, VENTED TO A VAPOR ADSORBER WITH 200 LBS OF ACTIVATED CARBON.
2. TWO EMERGENCY STORAGE TANKS, LEACHATE/CONDENSATE, EACH 10,000 GALLONS, VENTED TO A VAPOR ADSORBER WITH 200 LBS OF ACTIVATED CARBON.
3. ONE STORAGE TANK, SODIUM HYPOCHLORITE, 500 GALLONS.
4. THREE CARBON ADSORBERS, LIQUID PHASE, IN SERIES, EACH 2000 LBS OF GRANULAR ACTIVATED CARBON.

Conditions

1. CONSTRUCTION AND OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THIS APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE OPERATED AND MAINTAINED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION
[RULE 204]
4. THIS EQUIPMENT SHALL BE EQUIPPED WITH SOLID COVERS WITH ALL OPENINGS SEALED TO PREVENT VAPORS FROM RELEASING INTO THE ATMOSPHERE. ANY GAGEING, SAMPLING AND LEAK DETECTION DEVICE SHALL BE COVERED AND SEALED AT ALL TIMES EXCEPT WHEN THE DEVICE IS IN ACTUAL USE.
[RULE 1303 (a)(1)-BACT]
5. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS ALL VENTS OR EXHAUSTS ARE DIRECTED TO A CARBON ADSORBER.
[RULE 1303 (a)(1)-BACT]
7. A FLOW TOTALIZER SHALL BE INSTALLED AT THE INFLUENT FEED LINE AND AT THE EFFLUENT DISCHARGE LINE TO INDICATE THE TOTAL AMOUNT (IN GALLONS) OF LEACHATE/CONDENSATE TREATED BY THIS SYSTEM.
[RULE 1303 (b)(2)-OFFSET]
8. THE AMOUNT OF LEACHATE/CONDENSATE FED TO EACH TREATMENT SYSTEM SHALL BE RECORDED IN A LOG BOOK ON A DAILY BASIS.
[RULE 1303 (b)(2)-OFFSET]

FACILITY PERMIT TO OPERATE SUNSHINE CANYON LANDFILL

9. THE TOTAL AMOUNT OF CONDENSATE/LEACHATE TREATED (IN THE TREATMENT SYSTEM) SHALL NOT EXCEED 57,600 GALLONS PER DAY.
[RULE 1303 (b)(2)-OFFSET]
10. THE OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE DISCHARGE OF UNTREATED, ODOROUS LIQUID INTO THE ATMOSPHERE.
[RULE 402]
11. ANY LIQUID USED FOR DUST CONTROL OR OTHER PURPOSES SHALL BE ODORLESS, SHALL NOT CONTAIN TOTAL VOLATILE ORGANIC COMPOUNDS IN EXCESS OF 45 UG/L AND SHALL BE MONITORED AND RECORDED MONTHLY.
[RULE 402]
12. ALL RECORDS SHALL BE KEPT FOR A PERIOD OF AT LEAST FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1150.1, 1303 (b)(2)-OFFSET]
13. TOTAL ORGANIC COMPOUND (TOC) EMISSIONS FROM THE OUTLET OF THE VAPOR ADSORBERS FOR THE INFLUENT AND THE EMERGENCY STORAGE TANKS SHALL BE MEASURED AT LEAST ONCE A MONTH.
14. TOTAL ORGANIC COMPOUND (TOC) EMISSIONS FROM THE OUTLET OF ANY OF THE VAPOR ADSORBERS SHALL NOT EXCEED 50 PPM AS METHANE.
15. ALL CONDENSATE VALVES, AND OPENINGS SHALL BE PROPERLY SEALED OR CLOSED TO PREVENT RAW CONDENSATE VAPORS FROM ENTERING INTO THE ATMOSPHERE.
16. THIS PERMIT SHALL EXPIRE IF CONSTRUCTION OF THIS EQUIPMENT IS NOT COMPLETE WITHIN ONE YEAR FROM THE DATE OF ISSUANCE OF THIS PERMIT UNLESS AN EXTENSION IS GRANTED BY THE EXECUTIVE OFFICER.
[RULE 204]
17. THE OPERATOR SHALL REPLACE THE CARBON IN THE VAPOR ADSORBERS WITH FRESH CARBON WHEN THE EMISSIONS AT THE EXHAUST OF THE VAPOR ADSORBERS EXCEED THE LIMIT IN CONDITION NO. 14. RECORDS OF THE DATE OF REPLACEMENT AND TOC READINGS BEFORE AND AFTER CARBON REPLACEMENT SHALL BE MAINTAINED AND KEPT ON FILE
18. SPENT CARBON REMOVED FROM THE VAPOR ADSORBERS SHALL BE STORED IN CLOSED CONTAINERS PRIOR TO DISPOSAL OR REGENERATION.

FACILITY PERMIT TO OPERATE SUNSHINE CANYON LANDFILL

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS.

Periodic Monitoring:

1. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

FOR ARCHITECTURAL APPLICATIONS WHERE NO THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN SEMI-ANNUAL RECORDS OF ALL COATINGS CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS SUPPLIED IN GRAMS PER LITER (g/l) OF MATERIALS FOR LOW-SOLIDS COATINGS, (c) VOC CONTENT AS SUPPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.

FOR OTHER ARCHITECTURAL APPLICATIONS WHERE THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN DAILY RECORDS FOR EACH COATING CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS APPLIED IN GRAMS PER LITER (g/l) OF MATERIALS USED FOR LOW-SOLIDS COATINGS, (c) VOC CONTENT AS APPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.

[RULE 3004 (a) (4)]

Emissions and Requirements:

2. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:

VOC: RULE 1113, SEE APPENDIX B FOR EMISSION LIMITS

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO OPERATE SUNSHINE CANYON LANDFILL

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, FIRE EXTINGUISHING EQUIPMENT.

Emissions and Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:

HALON: RULE 1418

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO OPERATE SUNSHINE CANYON LANDFILL

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, HAND WIPING OPERATIONS.

Emissions and Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS