

**FACILITY PERMIT TO OPERATE
RIV CO., WASTE MGMT, BADLANDS 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.

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PERMITTED EQUIPMENT LIST

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

Application number	Permit number	Equipment description	Page
347763	F44516	LANDFILL GAS COLLECTION (>50 WELLS)	6
411687	F58662	LANDFILL CONDENSATE/LEACHATE/COLLECTION	11
444070	F80754	LFG CONTROL/RESOURCE RECOVERY	15
472872		LFG FLARING SYSTEM	19

NOTE: ANY OTHER APPLICATIONS THAT ARE STILL BEING PROCESSED AND HAVE NOT BEEN ISSUED 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 USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 0.05 PERCENT BY WEIGHT.
[RULE 431.2]
3. THE OPERATOR SHALL NOT USE LANDFILL GAS CONTAINING SULFUR COMPOUNDS IN EXCESS OF 150 PPMV CALCULATED AS HYDROGEN SULFIDE AVERAGED DAILY.
[RULE 431.1]
4. 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 [RULE 1150.1]
 - F. MONITOR QUARTERLY, OR AS PER THE APPROVED 1150.1 ALTERNATIVE, THE LANDFILL SURFACE FOR TOC. [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]
5. 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(f)(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]

6. THIS FACILITY IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

GASEOUS EMISSIONS: 1150.1
GASEOUS EMISSIONS: 40CFR60 SUBPART WWW
GASEOUS EMISSIONS: 40CFR63 SUBPART AAAA

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Permit No. F44516
A/N 347763

Equipment Description:

LANDFILL GAS COLLECTION SYSTEM CONSISTING OF:

PHASE I: (YEAR 2000 START)

1. TWENTY SEVEN (27) VERTICAL GAS EXTRACTION WELLS, RANGING FROM 15 TO 120 FEET DEEP, 3"- 4" DIA., PERFORATED PVC OR HDPE.
2. FIVE (5) HORIZONTAL GAS EXTRACTION WELLS, 6" – 8" DIA., PERFORATED PVC OR HDPE.
3. LATERALS AND HEADERS, 8"-10" DIA., HDPE, CONNECTING THE VERTICAL AND HORIZONTAL WELLS TO A GAS TREATMENT FACILITY.

PHASE II: (YEAR 2003 ESTIMATED START)

4. SIXTY (60) VERTICAL GAS EXTRACTION WELLS, RANGING FROM 15 TO 120 FEET DEEP, 3"- 4" DIA., PERFORATED PVC OR HDPE.
5. EIGHTEEN (18) HORIZONTAL GAS EXTRACTION WELLS, 6" – 8" DIA., PERFORATED PVC OR HDPE.
6. LATERALS AND HEADERS, 8"-10" DIA., HDPE, CONNECTING THE VERTICAL AND HORIZONTAL WELLS TO A GAS TREATMENT FACILITY.

PHASE III: (YEAR 2006 ESTIMATED START)

7. FIFTY FIVE (55) VERTICAL GAS EXTRACTION WELLS, RANGING FROM 15 TO 120 FEET DEEP, 3"- 4" DIA., PERFORATED PVC OR HDPE.
8. TWENTY (20) HORIZONTAL GAS EXTRACTION WELLS, 6" – 8" DIA., PERFORATED PVC OR HDPE.
9. LATERALS AND HEADERS, 8"-10" DIA., HDPE, CONNECTING THE VERTICAL AND HORIZONTAL WELLS TO A GAS TREATMENT FACILITY.

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]

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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. ALL GASES COLLECTED BY THIS SYSTEM SHALL BE VENTED TO A GAS PROCESSING SYSTEM 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]
5. PRIOR TO CONNECTING ANY VAPOR EXTRACTION LINE TO THE COLLECTION SYSTEM, EACH PIPING LINE SHALL BE SEALED AT BOTH ENDS TO PREVENT LANDFILL GAS FROM ESCAPING FROM THE LINE INTO THE ATMOSPHERE.
[RULE 1150, 1150.1]
6. DURING VERTICAL 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 1150.1, 1303(a)(1)-BACT]
7. EACH VERTICAL AND/OR HORIZONTAL WELL HEAD SHALL BE EQUIPPED WITH A SHUT-OFF VALVE AND A SAMPLING PORT.
[RULE 1150.1, 1303(a)(1)-BACT]
8. 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.
[RULE 1150.1, 1303(a)(1)-BACT]
9. EACH WELL SHALL BE SECURELY SEALED TO PREVENT ANY EMISSIONS OF LANDFILL GAS FROM AROUND THE WELL CASING.
[RULE 1150, 1150.1]
10. AS-BUILT DRAWINGS SHOWING THE TRENCH LOCATIONS, VERTICAL WELL LOCATIONS, AND LINE SIZES SHALL BE PROVIDED TO THE AQMD WITHIN 30 DAYS AFTER CONSTRUCTION IS COMPLETED.
[RULE 1150.1]
11. THE AQMD SHALL BE NOTIFIED IN WRITING WHEN WORK ON THIS SYSTEM COMMENCES AND WHEN IT IS COMPLETED. SUCH NOTIFICATION SHALL OCCUR AT LEAST TWO DAYS PRIOR TO THE COMMENCEMENT AND WITHIN FIVE DAYS AFTER THE COMPLETION OF THE WORK.
[RULE 1150.1]

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12. WELL DRILLING, DRIVING, AND/OR TRENCHING SHALL NOT BE CONDUCTED BETWEEN THE HOURS OF 5 P.M. AND 7 A.M. OR ON SATURDAYS, SUNDAYS OR LEGAL HOLIDAYS, UNLESS OTHERWISE APPROVED BY THE AQMD.
[RULE 402, 1150]
13. WELL DRILLING, DRIVING, AND/OR TRENCHING SHALL NOT BE CONDUCTED ON DAYS WHEN THE AQMD FORECASTS FIRST, SECOND OR THIRD STAGE EPISODES FOR AREA NO. 23, OR WHEN THE AQMD REQUIRES COMPANIES IN AREA NO. 23 TO IMPLEMENT THEIR FIRST, SECOND OR THIRD STAGE EPISODE PLANS. EPISODE FORECASTS FOR THE FOLLOWING DAY CAN BE OBTAINED BY CALLING (800)242-4666.
[RULE 402, 1150]
14. WELL DRILLING, DRIVING, AND/OR TRENCHING SHALL NOT BE CONDUCTED ON DAYS WHEN THE WIND SPEED IS GREATER THAN 15 M.P.H. AVERAGE (OVER 15 MINUTES) OR THE WIND SPEED INSTANTANEOUSLY EXCEEDS 25 M.P.H.
[RULE 402, 1150]
15. DURING WELL DRILLING, DRIVING, AND/OR TRENCHING, ALL WORKING AREAS, EXCAVATED MATERIAL, AND UNPAVED ROADWAYS SHALL BE MAINTAINED IN A MOIST CONDITION TO MINIMIZE DUST AND EMISSIONS.
[RULE 402, 1150]
16. DURING WELL DRILLING, DRIVING, AND/OR TRENCHING, 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 ARE MITIGATED AND THE APPROVAL TO RESUME WORK IS RECEIVED FROM THE AQMD.
[RULE 402, 1150]
17. WELL HOLES, TRENCHES AND EXPOSED LANDFILL TRASH SHALL BE COMPLETELY COVERED TO PREVENT ANY EMISSION 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]
18. EACH WELL SHALL BE COMPLETED AND CAPPED THE SAME DAY ITS CONSTRUCTION COMMENCES UNLESS THE WELL HOLE IS COMPLETELY SEALED AND THE WELL CASING IS CONNECTED TO THE OPERATING GAS COLLECTION HEADER TO PREVENT ANY LANDFILL GAS FROM ESCAPING INTO THE ATMOSPHERE.
[RULE 402, 1150]
19. NO MORE THAN 100 LINEAR FEET OF TRENCH, WHICH EXPOSES LANDFILL TRASH TO THE ATMOSPHERE, SHALL BE OPEN AT ANY TIME PRIOR TO BACKFILLING, UNLESS OTHERWISE NOTED BELOW.
[RULE 402, 1150]

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20. EXCAVATED REFUSE MAY BE PLACED ALONG THE TRENCH EDGE UPON REMOVAL FROM THE TRENCH. ALL EXCAVATED REFUSE SHALL BE TRANSFERRED TO THE WORKING FACE WITHIN ONE HOUR OF REMOVAL FROM THE TRENCH, UNLESS OTHERWISE NOTED BELOW.
[RULE 402, 1150]
21. 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 AQMD PERSONNEL.
[RULE 402, 1150]
22. 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 1150]
23. ALL CONSTRUCTION SPOILS SHALL BE TRANSPORTED TO THE ACTIVE WORKING FACE OF THE LANDFILL WITHIN ONE HOUR OF GENERATION OR AS DEEMED NECESSARY BY THE DISTRICT PERSONNEL. IF THE LANDFILL IS CLOSED AND THE WORKING FACE IS UNAVAILABLE, ALL CONSTRUCTION SPOILS SHALL BE DEPOSITED DIRECTLY INTO THE TRUCK OR TRAILER BED WHICH WILL HAUL IT OFF SITE FOR DISPOSAL AT THE END OF EACH WORKING DAY. THE TRUCK BEDS OR TRAILERS HAULING THE CONSTRUCTION SPOILS SHALL BE COMPLETELY COVERED WITH AN IMPERMEABLE COVER WITH SUCH COVERS TIED DOWN. ALL SEAMS SHALL BE SEALED TO PREVENT ANY MATERIAL FROM ESCAPING DURING TRANSPORT.
[RULE 402, 1150]
24. DURING TRANSPORT OF THE CONSTRUCTION SPOILS, NO MATERIAL SHALL EXTEND ABOVE THE SIDES OR REAR OF THE VEHICLE HAULING THE MATERIAL.
[RULE 402, 1150]
25. THE EXTERIOR OF THE VEHICLE (INCLUDING THE TIRES) HAULING THE CONSTRUCTION SPOILS SHALL BE CLEANED OFF PRIOR TO LEAVING THE WORKING SITE.
[RULE 402, 1150]
26. ALL CONDENSATE SHALL BE DISPOSED OF PROPERLY.
[RULE 402, 1150]
27. ALL OPENINGS OF THE GAS COLLECTION SYSTEM SHALL BE PROPERLY SEALED TO PREVENT ESCAPE OF GAS INTO THE ATMOSPHERE.
[RULE 402, 1150]
28. MITIGATION MEASURES, OTHER THAN THOSE INDICATED IN THESE CONDITIONS, WHICH ARE DEEMED APPROPRIATE BY AQMD PERSONNEL AS NECESSARY TO PROTECT THE COMFORT, REPOSE, HEALTH OR SAFETY OF THE PUBLIC SHALL BE IMPLEMENTED UPON REQUEST.
[RULE 1150.1]

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29. WITHIN 30 DAYS AFTER CONSTRUCTION OF A WELL OR A SET OF WELLS AND THEIR ASSOCIATED PIPING IS COMPLETE, AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE AQMD.
[RULE 1150.1]
30. ALL RECORDS SHALL BE KEPT FOR AT LEAST TWO YEARS IN A FORM APPROVED BY THE AQMD AND MADE AVAILABLE UPON REQUEST.
[RULE 1150.1]
31. THE OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF ANY RAW LANDFILL GAS OR CONDENSATE INTO THE ATMOSPHERE.
[RULE 402, 1150]
32. THE AQMD SHALL BE NOTIFIED IN WRITING AT LEAST ONE (1) WEEK IN ADVANCE WHEN AN ADDITIONAL WELL OR SET OF WELLS AND THEIR ASSOCIATED PIPING WILL BE INSTALLED. THE PROPOSED WELL LOCATIONS AND CONNECTING PIPING SHALL BE IDENTIFIED ON A DRAWING WHICH SHOW THE ENTIRE GAS COLLECTION SYSTEM, AND DESCRIBED. ESTIMATED GAS COLLECTION VOLUME, WELL DEPTHS, PIPE LENGTHS, DIAMETERS AND LAYOUTS SHALL BE SUPPLIED TO THE AQMD IN THIS ADVANCE NOTIFICATION.
[RULE 1150.1]

Emissions and Requirements:

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

GASEOUS EMISSIONS: RULE 1150.1

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**Permit No. F58662
A/N 411687**

Equipment Description:

LANDFILL CONDENSATE/LEACHATE COLLECTION AND STORAGE SYSTEM CONSISTING OF:

1. THREE (3) LEACHATE STORAGE TANKS, POLYETHYLENE, 10,500 GALLON CAPACITY, WITH SECONDARY CONTAINMENT, EACH VENTED TO A COMMON 55 GALLON CARBON CANISTER.
2. ONE (1) CONDENSATE STORAGE TANK, HDPE, 10,500 GALLON CAPACITY, WITH SECONDARY CONTAINMENT, LOCATED AT THE SOUTH SIDE OF THE LANDFILL TO COLLECT CONDENSATE FROM THE ENTIRE GAS COLLECTION SYSTEM, VENTED TO A CARBON CANISTER.
3. ONE (1) CONDENSATE STORAGE TANK, HDPE, 3,800 GALLON CAPACITY, WITH SECONDARY CONTAINMENT, LOCATED AT THE NORTHWEST SIDE OF THE LANDFILL NEXT TO THE FLARE/GAS-TO-ENERGY PLANT, TO COLLECT CONDENSATE GENERATED FROM THE FLARE/GAS-TO-ENERGY PLANT, VENTED TO A CARBON CANISTER.
4. ONE (1) CONDENSATE/LEACHATE RECIRCULATION TANK, FIBERGLASS, 5,000 GALLON CAPACITY, WITH SECONDARY CONTAINMENT, LOCATED AT THE NORTH SIDE OF THE LANDFILL TO RECIRCULATE CONDENSATE/LEACHATE BACK INTO THE LINED LANDFILL, VENTED TO A CARBON CANISTER.
5. TEMPORARY LEACHATE TANKS, EACH VENTED TO INDIVIDUAL CARBON CANISTERS, AS NEEDED DURING WET WINTER SITUATIONS.
6. TEMPORARY LEACHATE TANK, 1000 GALLON CAPACITY, DOUBLE WALLED, FOR USE DURING CONSTRUCTION OF EXPANSION PROJECT.
7. ASSOCIATED PIPING, COLLECTING AND TRANSPORTING CONDENSATE/LEACHATE.

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]

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3. THIS EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. CONSTRUCTION SHALL NOT BE CONDUCTED ON DAYS WHEN THE SCAQMD FORECASTS FIRST, SECOND OR THIRD STAGE EPISODES FOR AREA NO. 23, OR WHEN THE SCAQMD REQUIRES COMPANIES IN AREA NO. 23 TO IMPLEMENT THEIR FIRST, SECOND OR THIRD STAGE EPISODE PLANS. EPISODE FORECASTS FOR THE FOLLOWING DAY CAN BE OBTAINED BY CALLING (800)242-4666.
[RULE 402, 1150]
5. CONSTRUCTION SHALL NOT BE CONDUCTED BETWEEN THE HOURS OF 5 P.M. AND 7 A.M. ON WEEKDAYS AND DURING ALL HOURS ON SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS UNLESS OTHERWISE APPROVED BY THE SCAQMD.
[RULE 402, 1150]
6. CONSTRUCTION SHALL NOT BE CONDUCTED WHEN THE WIND SPEED IS GREATER THAN 15 M.P.H. AVERAGE (OVER 15 MINUTES) OR THE INSTANTANEOUS WIND SPEED EXCEEDS 25 M.P.H.
[RULE 402, 1150]
7. THE CONSTRUCTION OF ANY PIPING OR WELL TRENCH WHICH EXPOSES LANDFILL TRASH TO THE ATMOSPHERE SHALL BE STAGED SUCH THAT NO MORE THAN ONE HUNDRED (100) LINEAR FEET OF TRENCH IS EXPOSED AT ANY TIME PRIOR TO BACKFILLING.
[RULE 402, 1150]
8. TRENCHES AND EXPOSED LANDFILL TRASH SHALL BE COMPLETELY COVERED TO PREVENT 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 WHEN RAIN IS PREDICTED BY THE NATIONAL WEATHER SERVICE PRIOR TO THE NEXT SCHEDULED WORKING DAY.
[RULE 402, 1150]
9. FOR THE 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 1150]
10. 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, 1150]

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11. CONSTRUCTION SPOILS SHALL NOT BE STOCKPILED ON SITE. ALL CONSTRUCTION SPOILS SHALL BE DEPOSITED DIRECTLY INTO THE TRUCK OR TRAILER BED WHICH WILL HAUL IT OFF SITE FOR DISPOSAL. THE TRUCK BEDS OR TRAILERS HAULING THE CONSTRUCTION SPOILS SHALL BE COMPLETELY COVERED WITH AN IMPERMEABLE COVER WITH SUCH COVERS TIED DOWN. ALL SEAMS SHALL BE SEALED TO PREVENT ANY MATERIAL FROM ESCAPING DURING TRANSPORT.
[RULE 402, 1150]
12. DURING TRANSPORT OF THE CONSTRUCTION SPOILS, NO MATERIAL SHALL EXTEND ABOVE THE SIDES OR REAR OF THE VEHICLE HAULING THE MATERIAL.
[RULE 402, 1150]
13. THE EXTERIOR OF THE VEHICLE (INCLUDING THE TIRES) HAULING THE CONSTRUCTION SPOILS SHALL BE CLEANED OFF PRIOR TO LEAVING THE WORKING SITE.
[RULE 402, 1150]
14. 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 SCAQMD PERSONNEL OR ON-SITE SAFETY COORDINATOR IN THE ABSENCE OF SCAQMD PERSONNEL.
[RULE 402, 1150]
15. 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 ARE MITIGATED AND THE APPROVAL TO RESUME WORK IS GRANTED BY THE SCAQMD.
[RULE 402, 1150]
16. MITIGATION MEASURES, OTHER THAN THOSE INDICATED IN THESE CONDITIONS, WHICH ARE DEEMED APPROPRIATE BY SCAQMD PERSONNEL AS NECESSARY TO PROTECT THE COMFORT, REPOSE, HEALTH OR SAFETY OF THE PUBLIC SHALL BE IMPLEMENTED UPON REQUEST.
[RULE 1150.1]
17. THE SCAQMD SHALL BE NOTIFIED IN WRITING WHEN WORK ON THIS SYSTEM COMMENCES AND WHEN IT IS COMPLETED. SUCH NOTIFICATION SHALL OCCUR AT LEAST TWO DAYS PRIOR TO THE COMMENCEMENT AND WITHIN FIVE DAYS AFTER THE COMPLETION OF THE WORK.
[RULE 1150.1]
18. ALL CONDENSATE/LEACHATE COLLECTED SHALL BE DISPOSED OF AND/OR TREATED PROPERLY.
[RULE 402, 1150]
19. EMISSIONS FROM THE OUTLETS OF ANY CARBON CANISTER SHALL NOT EXCEED 50 PPM TOTAL ORGANIC COMPOUNDS MEASURED AS METHANE.
[RULE 402]

**FACILITY PERMIT TO OPERATE
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20. ALL CONNECTIONS, VALVES AND OPENINGS SHALL BE PROPERLY SEALED OR CLOSED SO AS TO PREVENT RAW LANDFILL GAS AND/OR CONDENSATE/LEACHATE VAPORS FROM ENTERING INTO THE ATMOSPHERE.
[RULE 402, 1150]

21. ALL RECORDS REQUIRED TO VERIFY COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT SHALL BE KEPT FOR A PERIOD OF AT LEAST TWO YEARS AND SHALL BE MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULE 1150.1]

**FACILITY PERMIT TO OPERATE
RIV CO., WASTE MGMT, BADLANDS LANDFILL**

PERMIT TO OPERATE

**Permit No. F80754
A/N 444070**

Equipment Description:

LANDFILL GAS CONTROL AND RESOURCE RECOVERY SYSTEM CONSISTING OF:

1. WET SCRUBBER LIQUID SEPARATOR
2. 6.0 MICRON COALESCING FILTER
3. ELECTRIC VAPORIZATION CHILLER, CARRIER, AQUASNAP, 22 TONS, ELECTRICALLY POWERED
4. 0.3 MICRON COALESCING FILTER
5. INTERNAL COMBUSTION ENGINE, NO. 1, DEUTZ, MODEL NO. TBG 620 V16K, SERIAL NO. 2202953, 1777 H.P., PARK IGNITION, FOUR STROKE, LEAN BURN, TURBOCHARGED, INTERCOOLED, LANDFILL GAS FIRED, DRIVING A 1.3 MW ELECTRICAL GENERATOR.

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. THE OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF RAW LANDFILL GAS INTO THE ATMOSPHERE. ANY BREAKDOWN OR MALFUNCTION WHICH RESULTS IN EMISSIONS OF RAW LANDFILL GAS SHALL BE REPORTED TO THE SCAQMD MANAGER OF TOXICS AND WASTE MANAGEMENT BRANCH WITHIN ONE HOUR OF OCCURRENCE, AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 430]
4. A FLOW INDICATING AND RECORDING DEVICE SHALL BE INSTALLED TO MEASURE AND RECORD THE TOTAL VOLUMETRIC FLOW RATE (IN SCFM) OF LANDFILL GAS TO THIS ENGINE.
[RULE 1303(b)(2)-OFFSET]

FACILITY PERMIT TO OPERATE RIV CO., WASTE MGMT, BADLANDS LANDFILL

5. THE EMISSIONS FROM THE ENGINE SHALL NOT EXCEED ANY OF THE FOLLOWING LIMITS:

CONTAMINANT	LBS/DAY
NOX	51
CO	235
ROG	22
PM10	5

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

6. A SAMPLING PORT SHALL BE MAINTAINED AT THE INLET GAS LINE TO THE ENGINE TO ALLOW THE COLLECTION OF A LANDFILL GAS SAMPLE.
[RULE 217, 431.1, 1150.1]
7. TWO SAMPLING PORTS SHALL BE INSTALLED AND MAINTAINED IN THE ENGINE EXHAUST 8 TO 10 DUCT DIAMETERS DOWNSTREAM AND TWO DUCT DIAMETERS UPSTREAM OF ANY FLOW DISTURBANCE, AT 90 DEGREES APART, AND SHALL CONSIST OF TWO WELDED NIPPLES WITH CAPS AT LEAST 3 INCHES IN INSIDE DIAMETER. AN EQUIVALENT METHOD FOR EMISSIONS SAMPLING MAY BE USED UPON APPROVAL OF THE AQMD. ADEQUATE AND SAFE ACCESS TO THE TEST PORTS SHALL BE PROVIDED.
[RULE 217]
8. AQMD CERTIFIED CONTINUOUS EMISSION MONITORING SYSTEM (CEMS) SHALL BE INSTALLED AND OPERATED TO MEASURE AND RECORD THE ENGINE EXHAUST STACK CONCENTRATION FOR NOX AND O₂ ON A DRY BASIS. IN ADDITION, THE SYSTEM SHALL CONVERT THE ACTUAL NOX CONCENTRATION TO A CORRECTED NOX CONCENTRATION AT 15% O₂. THIS MONITORING SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF AQMD RULE 218.
[RULE 218]
9. THIS ENGINE SHALL COMPLY WITH RULE 1110.2.
[RULE 1110.2]
10. THE TOTAL HEATING VALUE OF LANDFILL GAS BURNED IN THIS ENGINE SHALL NOT EXCEED 16.19 MILLION BTU PER HOUR. A LOG SHALL BE KEPT INDICATING THE TOTAL HEATING VALUE OF GAS BURNED IN THIS ENGINE BASED ON THE RECORDED FLOW RATE (SCFM) AND THE LATEST WEEKLY BTU CONTENT READING.
[RULE 1303(b)(2)-OFFSET]
11. WEEKLY READINGS OF THE BTU CONTENT OF THE LANDFILL GAS AT THE INLET TO THE ENGINE SHALL BE TAKEN USING AN INSTRUMENT APPROVED BY THE AQMD. ALL RESULTS SHALL BE RECORDED.
[RULE 1303(b)(2)-OFFSET]
12. THIS ENGINE SHALL NOT BE OPERATED WITHOUT A 100% CAPACITY BACKUP LANDFILL GAS COMBUSTION DEVICE OR A CARBON ADSORPTION SYSTEM INSTALLED WHICH HAS BEEN ISSUED A VALID AQMD PERMIT.
[RULE 1303(a)(1)-BACT]

FACILITY PERMIT TO OPERATE RIV CO., WASTE MGMT, BADLANDS LANDFILL

13. THIS ENGINE SHALL NOT BE OPERATED IN SUCH A MANNER AS TO UNREASONABLY INTERFERE WITH THE ABILITY OF THE LANDFILL OPERATOR/OWNER TO COMPLY WITH AQMD RULE 1150.1 OR ANY OTHER DISTRICT, STATE OR FEDERAL RULE LIMITING LANDFILL GAS MIGRATION OR SURFACE EMISSIONS.
[RULE 1150.1]
14. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.
[RULE 1150.1, 1303(b)(2)-OFFSET]
15. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT FOR A MINIMUM OF TWO YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1150.1, 1303(b)(2)-OFFSET]
16. ENGINE PERFORMANCE TESTS SHALL BE CONDUCTED ANNUALLY IN ACCORDANCE WITH AQMD TEST PROCEDURES. THE RESULTS OF SUCH PERFORMANCE TESTS SHALL BE FURNISHED TO THE AQMD WITHIN 45 DAYS AFTER THE TESTS ARE CONDUCTED. WRITTEN NOTICE OF THE PERFORMANCE TESTS SCHEDULE SHALL BE PROVIDED TO THE AQMD 7 DAYS PRIOR TO THE TESTS SO THAT AN OBSERVER MAY BE PRESENT. THE ENGINE PERFORMANCE TESTS SHALL BE CONDUCTED AT THE MAXIMUM LOAD AND SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF THE INLET LANDFILL GAS AND THE EXHAUST GASES FOR:
 - A. METHANE
 - B. TOTAL NON-METHANE ORGANICS
 - C. NON-METHANE ORGANICS, SPECIATED AND QUANTIFIED BY GC/MS (INLET AND EXHAUST FOR LANDFILL GAS ONLY)
 - D. OXIDES OF NITROGEN (EXHAUST ONLY)
 - E. CARBON MONOXIDE (EXHAUST ONLY)
 - F. HYDROGEN SULFIDE (INLET LANDFILL GAS ONLY)
 - G. TOTAL SULFUR COMPOUNDS (INLET LANDFILL GAS ONLY)
 - H. PARTICULATES (EXHAUST ONLY)
 - I. CARBON DIOXIDE
 - J. OXYGEN
 - K. NITROGEN
 - L. MOISTURE CONTENT
 - M. TEMPERATURE
 - N. FLOW RATE
 - O. HEATING VALUE OF LANDFILL GASTHE FINAL REPORT SHALL INCLUDE FUEL CONSUMPTION AND THE ENGINE OUTPUT DURING THE TESTS.
[RULE 1150.1, 1303(b)(2)-OFFSET]
17. TOTAL SULFUR, AS H₂S, IN THE LANDFILL GAS SUPPLIED TO THE ENGINE SHALL NOT EXCEED 75 PPM.
[RULE 431.1]
18. TO DEMONSTRATE COMPLIANCE WITH CONDITION NO. 19, THE NOX EMISSIONS FROM THIS EQUIPMENT SHALL BE CALCULATED USING THE APPLICABLE EMISSION FACTOR AS REPORTED IN THE LATEST AQMD APPROVED ANNUAL SOURCE TEST REPORT OR THE EMISSION FACTOR AS STATED IN THE PERMIT FOR THIS EQUIPMENT.
[RULE 3001]

FACILITY PERMIT TO OPERATE RIV CO., WASTE MGMT, BADLANDS LANDFILL

19. TO MAINTAIN EXEMPTION FROM TITLE V REQUIREMENTS, THE TOTAL QUANTITY OF NOX EMISSIONS FROM THIS FACILITY SHALL BE LESS THAN 10 TONS (20,000 POUNDS) IN ANY TWELVE CALENDAR MONTH PERIOD. TO ENSURE COMPLIANCE WITH THE EMISSION CAP OF THIS CONDITION, THE OPERATOR SHALL:
- A. DETERMINE THE CALENDAR MONTHLY NOX EMISSIONS FROM ALL EQUIPMENT AND OPERATIONS AT THIS FACILITY THAT ARE REQUIRED TO HAVE A WRITTEN PERMIT OR ARE EXEMPT FROM WRITTEN PERMIT PURSUANT TO RULE 219. NOX EMISSIONS FROM EQUIPMENT AND OPERATIONS THAT ARE EXEMPT FROM WRITTEN PERMIT PURSUANT TO RULE 219 SHALL BE CALCULATED USING THE APPLICABLE EMISSION FACTOR IN THE MOST RECENT GENERAL INSTRUCTION BOOK FOR THE ANNUAL EMISSION REPORTING PROGRAM
 - B. WITHIN 14 CALENDAR DAYS AFTER THE END OF EACH CALENDAR MONTH, TOTAL AND RECORD NOX EMISSIONS FOR THE CALENDAR MONTH AND FOR THE PREVIOUS 12 CALENDAR MONTH PERIOD FROM ALL EQUIPMENT AND OPERATIONS THAT ARE REQUIRED TO HAVE WRITTEN PERMITS OR ARE EXEMPT FROM WRITTEN PERMITS PURSUANT TO RULE 219. THE RECORD SHALL BE SIGNED AND CERTIFIED FOR ACCURACY BY THE HIGHEST RANKING INDIVIDUAL RESPONSIBLE FOR COMPLIANCE WITH DISTRICT RULES.
 - C. ALL RECORDS SHALL BE RETAINED AT THE FACILITY FOR FIVE YEARS, AND SHALL BE MADE AVAILABLE TO ANY DISTRICT REPRESENTATIVE UPON REQUEST. THE RECORDS SHALL INCLUDE BUT ARE NOT LIMITED TO, THE EQUIPMENT TYPE, APPLICATION NUMBER, FUEL TYPE, FUEL USAGE, DATE OF OPERATION, AND CORRESPONDING EMISSION FACTOR.
 - D. IF THE RECORDS GENERATED AFTER THE END OF ANY CALENDAR MONTH SHOW THAT THE TOTAL FACILITY NOX EMISSIONS FOR THE PRECEDING TWELVE CALENDAR MONTH PERIOD EXCEED THE EMISSION CAP OF THIS CONDITION, THE OPERATOR SHALL SUBMIT AN INITIAL TITLE V PERMIT APPLICATION AND OBTAIN A TITLE V PERMIT PURSUANT TO THE REQUIREMENTS SPECIFIED IN RULE 3003. EXCEEDANCE OF THE NOX EMISSION LIMIT OF THIS CONDITION SHALL NOT SUBJECT THIS FACILITY TO NEW SOURCE REVIEW REQUIREMENTS.

[RULE 3001]

Emissions and Requirements:

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

NMOC: 20 PPMV OR 98 % WEIGHT REDUCTION, RULE 1150.1, 40CFR63 SUBPART AAAA
ROG 40 PPMV, Rule 1110.2
NOX: 36 PPMV, RULE 1110.2
CO: 2000 PPMV, RULE 1110.2
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
ROG 0.8 GRAMS/BHP-HR, BACT
NOX 0.6 GRAMS/BHP-HR, BACT
CO 2.5 GRAMS/BHP-HR, BACT

FACILITY PERMIT TO OPERATE RIV CO., WASTE MGMT, BADLANDS LANDFILL

PERMIT TO OPERATE

Permit No. _____
A/N 472872

Equipment Description:

LANDFILL GAS FLARING SYSTEM CONSISTING OF:

1. CONDENSATE KNOCKOUT VESSEL
2. FLOW METER AND RECORDER
3. BLOWER, HOFFMAN, CENTRIFUGAL, VARIABLE FREQUENCY, 2000 SCFM, 30 HP
4. FLAME ARRESTOR
5. FLARE, JOHN ZINK, ENCLOSED, WITH SPUD HEX BURNER DESIGN, 8'-4" DIA X 24'-4" HIGH, 34.1 MM BTU/HR, 1250 SCFM WITH A PROPANE PILOT, ELECTRIC IGNITOR AND UV FLAME SCANNER

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT TO CONSTRUCT 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 BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. FOUR SAMPLING PORTS SHALL BE MAINTAINED IN THE FLARE STACK AT LEAST FIVE (5) FEET UPSTREAM OF THE FLARE OUTLET. EACH SAMPLING PORT SHALL CONSIST OF A FOUR INCH COUPLING WITH PLUG. ALL PORTS SHALL BE PROPERLY CENTERED. AN EQUIVALENT METHOD FOR EMISSIONS SAMPLING MAY BE USED UPON APPROVAL OF THE AQMD. ADEQUATE AND SAFE ACCESS TO ALL TEST PORTS SHALL BE PROVIDED.
[RULE 217]

FACILITY PERMIT TO OPERATE RIV CO., WASTE MGMT, BADLANDS LANDFILL

5. A SAMPLING PORT SHALL BE INSTALLED AND MAINTAINED AT THE INLET GAS LINE TO THE FLARE STATION TO ALLOW THE COLLECTION OF A LANDFILL GAS SAMPLE.
[RULE 217, 431.1, 1150.1]
6. THE FLARE SHALL BE EQUIPPED WITH A 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 TEMPERATURE SHALL BE MEASURED AT A LOCATION ABOVE THE FLAME ZONE, AT LEAST 0.6 SECONDS DOWNSTREAM OF THE BURNER AND NOT LESS THAN FOUR (4) FEET FROM THE TOP OF THE STACK.
[RULE 1303(a)(1)-BACT]
7. WHENEVER THE FLARE IS IN OPERATION, A TEMPERATURE OF NOT LESS THAN 1400 DEGREES F. AS MEASURED BY THE TEMPERATURE INDICATOR AND RECORDER, SHALL BE MAINTAINED IN THE FLARE STACK.
[RULE 1303(a)(1)-BACT]
8. THE FLARE SHALL BE EQUIPPED WITH AN AUTOMATIC SHUT-DOWN SYSTEM WITH A FAILURE ALARM, WHICH HAS BEEN APPROVED BY THE AQMD, TO AUTOMATICALLY ISOLATE THE FLARE FROM THE LANDFILL GAS SUPPLY LINE, SHUT OFF THE BLOWERS AND IMMEDIATELY NOTIFY A RESPONSIBLE OFFICIAL OF THE SHUT-DOWN.
[RULE 1303(a)(1)-BACT]
9. THE AUTOMATIC SHUT-DOWN SAFETY SYSTEM SHALL BE TESTED MONTHLY FOR PROPER OPERATION AND THE RESULTS RECORDED.
[RULE 1303(a)(1)-BACT]
10. A FLOW INDICATING AND RECORDING DEVICE SHALL BE MAINTAINED IN THE LANDFILL GAS SUPPLY LINE TO THE FLARE TO MEASURE AND RECORD THE QUANTITY OF LANDFILL GAS (IN SCFM) BEING BURNED.
[RULE 1150.1, 1303(b)(2)-OFFSET]
11. THE TOTAL VOLUME OF LANDFILL GAS BURNED IN THE FLARE SHALL NOT EXCEED 1250 SCFM.
[RULE 1150.1, 1303(b)(2)-OFFSET]
12. THE TOTAL HEAT INPUT THROUGH THE FLARE SHALL NOT EXCEED 34.1 MMBTU PER HOUR.
[RULE 1150.1, 1303(b)(2)-OFFSET]
13. WEEKLY READINGS OF THE BTU CONTENT OF THE LANDFILL GAS AT THE INLET TO THE FLARE SHALL BE TAKEN USING AN INSTRUMENT APPROVED BY THE AQMD. ALL RESULTS SHALL BE RECORDED.
[RULE 1150.1, 1303(b)(2)-OFFSET]
14. ALL LANDFILL GAS COLLECTED SHALL BE DIRECTED TO THE FLARE STATION FOR COMBUSTION OR TO ANY OTHER COMBUSTION OR PROCESSING FACILITY WHICH IS IN FULL USE, CAN ADEQUATELY PROCESS THE VOLUME OF GAS COLLECTED AND HAS BEEN ISSUED A VALID PERMIT BY THE AQMD.
[RULE 1303(a)(1)-BACT]

FACILITY PERMIT TO OPERATE RIV CO., WASTE MGMT, BADLANDS LANDFILL

15. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.
[RULE 1150.1, 1303(b)(2)-OFFSET]
16. THE FLARE SHALL BE EQUIPPED WITH A SUFFICIENT NUMBER OF VIEW PORTS TO ALLOW VISUAL INSPECTION OF THE FLAME HEIGHT WITHIN THE FLARE AT ALL TIMES. THE VIEW PORT SHALL BE LOCATED AT THE ELEVATION OF THE TEMPERATURE SENSOR LOCATIONS. SAFE AND ADEQUATE ACCESS SHALL BE PROVIDED FOR ALL VIEW PORTS UPON REQUEST BY AQMD PERSONNEL.
[RULE 1303(a)(1)-BACT]
17. EACH FLARE SHALL BE DESIGNED AND OPERATED SO THAT THE FLAME IN THE FLARE REMAINS BELOW THE HEIGHT OF THE FLARE'S OPERATING THERMOCOUPLE AT ALL TIMES.
[RULE 1303(a)(1)-BACT]
18. THE MAXIMUM FLARE SKIN TEMPERATURE AT ANY LOCATION SHALL NOT EXCEED 250 DEGREES F.
[RULE 204]
19. OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF RAW LANDFILL GAS INTO THE ATMOSPHERE. ANY BREAKDOWN OR MALFUNCTION WHICH RESULTS IN EMISSION OF RAW LANDFILL GAS SHALL BE REPORTED TO THE AQMD ENGINEERING MANAGER, REFINERY AND WASTE MANAGEMENT PERMITTING, 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]
20. SOURCE TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH THE TEST METHODS OUTLINED IN THE DISTRICT RULE AND REGULATIONS.
[RULE 1150.1, 1303(b)(2)-OFFSET]
21. SOURCE TESTING NOTIFICATION SHALL BE SUBMITTED IN WRITING TO THE DISTRICT AT LEAST 10 DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT.
[RULE 1150.1, 1303(b)(2)-OFFSET]
22. THE APPLICANT SHALL CONDUCT ANNUAL PERFORMANCE TESTS IN ACCORDANCE WITH RULE 1150.1 (OR OTHER SCHEDULE ACCORDING TO AN APPROVED RULE 1150.1 ALTERNATIVE MONITORING PLAN) AND SHALL SUBMIT WRITTEN RESULT OF SUCH PERFORMANCE TESTS WITHIN SIXTY (60) DAYS AFTER THE TESTING. ALL SOURCE TESTING AND ANALYTICAL METHODS SHALL BE SUBMITTED TO THE AQMD FOR APPROVAL AT LEAST THIRTY (30) DAYS PRIOR TO THE START OF THE TESTS. THE TEST SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF THE INLET GAS TO THE FLARE AND THE FLARE EXHAUST FOR:
 - A. METHANE
 - B. TOTAL NON-METHANE ORGANICS
 - C. OXIDES OF NITROGEN (EXHAUST ONLY)
 - D. CARBON MONOXIDE (EXHAUST ONLY)
 - E. TOTAL PARTICULATES (EXHAUST ONLY)
 - F. HYDROGEN SULFIDE (INLET ONLY)
 - G. C1 THROUGH C3 SULFUR COMPOUNDS (SPECIATED)(INLET ONLY)

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- H. CARBON DIOXIDE
- I. RULE 1150.1 TABLE 1 COMPOUNDS
- J. OXYGEN
- K. NITROGEN
- L. MOISTURE CONTENT
- M. TEMPERATURE
- N. FLOW RATE
- O. NMOC DESTRUCTION EFFICIENCY
[RULE 1150.1, 1303(b)(2)-OFFSET]

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

POLLUTANT	LBS/HR
NOX, AS NO2	2.1
SOX, AS SO2	1.0
CO	6.8
PM10	1.5
NMHC, AS METHANE	0.76

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

24. OXIDES OF NITROGEN EMISSIONS FROM THE FLARE SHALL NOT EXCEED 0.06 POUNDS PER MILLION BTU INLET GAS.
[RULE 1303(a)(1)-BACT]

25. CARBON MONOXIDE EMISSIONS FROM THE FLARE SHALL NOT EXCEED 0.2 POUNDS PER MILLION BTU INLET GAS.
[RULE 1303(a)(1)-BACT]

26. PARTICULATE EMISSIONS FROM THE FLARE SHALL NOT EXCEED 20 POUNDS PER MILLION CUBIC FEET INLET GAS.
[RULE 1303(b)(2)-OFFSET]

27. ALL RECORDS SHALL BE KEPT FOR A PERIOD OF AT LEAST TWO YEARS AND SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1150.1, 1303(b)(2)-OFFSET]

Emissions and Requirements:

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

NMOC: 20 PPMV OR 98 % WEIGHT REDUCTION, RULE 1150.1, 40CFR63 SUBPART AAAA, 40CFR60 SUBPART WWW
NOX: 0.06 LBS/MMBTU, RULE 1303(a)(1)-BACT

FACILITY PERMIT TO OPERATE RIV CO., WASTE MGMT, BADLANDS 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

FACILITY PERMIT TO OPERATE RIV CO., WASTE MGMT, BADLANDS 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

FACILITY PERMIT TO OPERATE RIV CO., WASTE MGMT, BADLANDS 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