

FACILITY PERMIT TO OPERATE CHINO BASIN DESALTER AUTHORITY

Facility Equipment and Requirements (Section D)

This section consists of a table listing all permitted equipment at the facility, facility wide requirements, copies of all individual Permits to Operate issued 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 No. | Permit No. | Equipment description | Page # |
|------------------------|-------------------|--|---------------|
| 411145 | F58821 | STORAGE TANK W/SPARGER AMMONIA (To be removed, replaced, and superseded by A/N 516006) | 4 |
| 432022 | F76894 | AIR STRIPPING | 5 |
| 516006 | TBD | STORAGE TANK W/SPARGER AMMONIA | 7 |

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

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FACILITY WIDE CONDITION (S)

- I. 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]

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PERMIT TO OPERATE

Permit No. F58821
A/N 411145

Equipment Description:

STORAGE TANK, ABOVEGROUND, AQUEOUS AMMONIA, 8' - 0" DIA. X 8' -6" L., 3,000 GALLON CAPACITY, WITH VAPOR RETURN LINE AND VENTING THROUGH THE FUME SCRUBBER (WITH SPARGER).

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 TANK SHALL ONLY STORE AQUEOUS AMMONIA SOLUTION (20% STRENGTH).
[RULE 204]
4. MAXIMUM THROUGHPUT FOR THIS TANK SHALL NOT EXCEED 950 GALLONS IN ANY ONE YEAR.
[RULE 1303(b)(2)]
5. RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT AND MAINTAINED FOR AT LEAST TWO YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 3004(a)(4)]

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PERMIT TO CONSTRUCT / OPERATE

**Permit No. F76894
A/N 432022**

Equipment Description:

GROUNDWATER TREATMENT SYSTEM CONSISTING OF:

1. GROUNDWATER WELLS (NO. 1 THROUGH 4) AND ASSOCIATED PUMPS GROUNDWATER TO THE AIR STRIPPER.
2. AIR BLOWER, 10 H.P., MAXIMUM 8500 CFM, DELIVERING AIR TO THE AIR STRIPPER.
3. AIR STRIPPER, PACKED TOWER TYPE, DEI SYSTEMS, 10' - 0" DIA. X 24' - 6" H., WITH 10 FT. OF PACKING, A DEMISTER, AND AN EXHAUST STACK.

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 BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. THIS PERMIT SHALL EXPIRE IF CONSTRUCTION OF THE EQUIPMENT IS NOT COMPLETED WITHIN ONE YEAR FROM THE DATE OF ISSUANCE OF THIS PERMIT UNLESS AN EXTENSION IS GRANTED BY THE EXECUTIVE OFFICER.
[RULE 205]
5. A FLOWMETER, WITH A CONTINUOUS RECORDER, INDICATING GALLONS PER MINUTE (GPM) AND A FLOW TOTALIZER (GALLONS) SHALL BE INSTALLED AND MAINTAINED FOR THE AMOUNT OF GROUNDWATER TREATED BY THE AIR STRIPPER.
[RULE 204]
6. THE MAXIMUM FLOW RATE OF CONTAMINATED GROUNDWATER TO BE TREATED BY THE AIR STRIPPER SHALL NOT EXCEED 1800 GALLONS PER MINUTE.
[RULE 1401]

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7. A FLOWMETER AND RECORDER SHALL BE INSTALLED AND MAINTAINED FOR THE AIR SUPPLY LINE TO THE AIR STRIPPER TO INDICATE THE TOTAL AIR FLOW RATE IN STANDARD CUBIC FEET PER MINUTE (SCFM). THE TOTAL FLOW RATE MEASURED SHALL NOT EXCEED 8500 SCFM. IN CASE A PRESSURE SENSOR DEVICE IS USED INSTEAD OF THE FLOW INDICATOR, A CONVERSION CHART SHALL BE AVAILABLE TO INDICATE THE CORRESPONDING FLOW RATE (IN SCFM) TO THE PRESSURE READING.
[RULE 1401]
8. THIS EQUIPMENT SHALL NOT BE USED TO TREAT ANY RULE 1401 COMPOUNDS, AS AMENDED ON MAY 2, 2003, OTHER THAN TRICHLOROETHYLENE (TCE), CHLOROFORM, HEXAVALENT CHROMIUM AND ARSENIC.
[RULE 1401]
9. CONCURRENT GRAB SAMPLES SHALL BE TAKEN FROM THE INFLUENT AND EFFLUENT WATER PASSING THROUGH THE AIR STRIPPER, WEEKLY FOR THE FIRST MONTH OF OPERATION, AND ONCE EVERY CALENDAR QUARTER THEREAFTER, AND SHALL BE ANALYZED FOR VOLATILE ORGANIC COMPOUNDS (VOCS), AND METALS, IN ACCORDANCE WITH APPROVED METHODS. THE RESULTS OF THE ANALYSIS SHALL BE RECORDED AND MAINTAINED ON FILE.
[RULE 204]
10. THE GROUNDWATER INLET CONCENTRATIONS OF VOC, TCE, AND CHLOROFORM, SHALL NOT EXCEED THE FOLLOWING LIMIT:

| | |
|-------------------------|----------------------|
| VOC | 31 MICROGRAM/LITER |
| TRICHLOROETHYLENE (TCE) | 30 MICROGRAM/LITER |
| CHLOROFORM | 0.73 MICROGRAM/LITER |

[RULE 1401]
11. THE OPERATOR SHALL CEASE OPERATION OF THIS EQUIPMENT IF THE WATER ANALYSIS FROM THE AIR STRIPPER'S INFLUENT AND EFFLUENT (PER CONDITION NO. 9) INDICATES THAT METALS IDENTIFIED AS CARCINOGENS IN AQMD'S RULE 1401 ARE BEING RELEASED INTO THE AIR STRIPPER'S EXHAUST STREAM. THIS SHALL BE DEMONSTRATED BY COMPARING THE CONCENTRATIONS OF METALS IN THE INFLUENT AND EFFLUENT WATER. LOWER CONCENTRATIONS OF METALS IN THE EFFLUENT THAN INFLUENT SHALL BE REGARDED AS METALS BEING RELEASED INTO THE ATMOSPHERE.
[RULE 1401]
12. RECORDS SHALL BE KEPT AND MAINTAINED FOR AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULE 204]

FACILITY PERMIT TO OPERATE CHINO BASIN DESALTER AUTHORITY

PERMIT TO OPERATE

Permit No. TBD
A/N 516006

Equipment Description:

STORAGE TANK, ABOVEGROUND, AQUEOUS AMMONIA, 8' - 0" DIA. X 8' -6" L., 3,000 GALLON CAPACITY, WITH VAPOR RETURN LINE AND VENTING THROUGH THE FUME SCRUBBER (WITH SPARGER).

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. CURRENT CONTACT PERSON NAME, COMPANY, AND PHONE NUMBER SHALL BE DISPLAYED IN A PERMANENT AND CONSPICUOUS POSITION.
[RULE 204]
4. THE TANK SHALL ONLY STORE AQUEOUS AMMONIA SOLUTION, 20% OR LESS.
[RULE 204]
5. MAXIMUM THROUGHPUT FOR THIS TANK SHALL NOT EXCEED 5,000 GALLONS IN ANY ONE YEAR. PURCHASE RECORDS OF AQUEOUS AMMONIA SHALL BE KEPT AND MAINTAINED TO DEMONSTRATE COMPLIANCE.
[RULE 204]
6. MATERIAL SAFETY DATA SHEETS (MSDS) FOR AQUEOUS AMMONIA SHALL BE MAINTAINED ON SITE AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 204, RULE 1401]
7. RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT AND MAINTAINED FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 3004(a)(4)]
8. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS THE FUME SCRUBBER IS IN FULL OPERATION AND IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

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9. DURING OFF-LOADING OF AQUEOUS AMMONIA FROM A TANKER TRUCK TO THIS EQUIPMENT, THE AMMONIA OFF-GASSES FROM THIS EQUIPMENT SHALL BE VENTED BACK TO THE TANKER TRUCK BY MEANS OF A VAPOR RETURN LINE.
[RULE 204]
10. THE OPERATOR SHALL REPLACE THE WATER IN THE FUME SCRUBBER WHENEVER THE PH OF THE WATER REACHES 11. THE CONTAMINATED WATER SHALL BE STORED IN CLOSED CONTAINERS AND SHALL BE DISPOSED OF PROPERLY.
[RULE 1303(a)]

Periodic Monitoring

11. THE OPERATOR SHALL MEASURE THE PH LEVEL OF THE FUME SCRUBBER AT LEAST ONCE EVERY WEEK USING A PH METER OR OTHER DEVICE APPROVED BY THE DISTRICT.
[RULE 1303(a), RULE 3004(a)(4)]
12. THE OPERATOR SHALL MAINTAIN RECORDS OF THE PH TESTS REQUIRED IN CONDITION NO. 11. AT A MINIMUM, THE RECORDS SHALL INDICATE THE DATE OF PH TEST. THE PH READING AND THE NAME OF THE OPERATOR WHO CONDUCTED THE TEST.
[RULE 1303(a), RULE 3004(a)(4)]

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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

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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

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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, CLEANING EQUIPMENT, SMALL UNHEATED, NON-CONVEYORIZED.

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