

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION**

MONITORING AND REPORTING PROGRAM NO. 00-115
FOR
THE SOUTHERN CALIFORNIA GAS COMPANY, OWNER/OPERATOR
BLYTHE COMPRESSOR STATION
EVAPORATION PONDS, INFILTRATION BASIN, AND SUMPS
Blythe - Riverside County

Location of Discharge: SW1/4, SE1/4 of Sections 35, T6S, R22E, SBB&M

A. MONITORING-GENERAL

1. The reporting responsibilities of the discharger are specified in the California Water Code. This self-monitoring program is issued in accordance with Provision No. 1 of Regional Board Order No. 00-115. The principal purpose of this Monitoring Program is:
 - a. To document compliance with the Waste Discharge Requirements adopted by the California Regional Water Quality Control Board.
 - b. To facilitate a self-policing by the discharger in the prevention and abatement of pollution arising from the discharge.
 - c. To conduct water quality analyses.
2. The collection, preservation and holding times of all samples shall be in accordance with U.S. Environmental Protection Agency approved procedures. Unless otherwise approved by the Regional Board's Executive Officer, all analyses shall be conducted by a laboratory certified for such analyses by the State Department of Health Services unless a field analysis is specified. All analyses shall be conducted in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants" (40 CFR 136), promulgated by the United States Environmental Protection Agency.
3. The Regional Board's Executive Officer may reduce or change the monitoring parameters and/or the monitoring frequency during the course of this monitoring program.

B. MONITORING REPORTS AND OBSERVATION SCHEDULE

"Reporting Period" means the duration separating the submittal of a given type of monitoring report from the time the next iteration of that report is scheduled for submittal. The reporting period for the monitoring program is semi-annual. An annual report, which is a summary of all the monitoring during the previous year, shall also be submitted to the Regional Board. The submittal dates for each reporting period shall be as follows:

1. Semi-annual Monitoring Reports
 - a. First Semi Annual (January 1, through June 30) - report due by July 31
 - b. Second Semi-Annual (July 1 through December 31) - report due February 15

2. Annual Summary Report

January 1 through December 31 - report due on March 15 of the following year.

C. REPORTS TO BE FILED WITH THE BOARD

A written "Detection Monitoring Report" shall be submitted twice annually, in addition to an "Annual Summary Report". The report shall be submitted by the above-specified date. The following information/data should be included in each report:

1. Semi - Annual Monitoring Report Requirements:

a. General Information

The following shall be included:

1. Estimated total volume of fluid discharged to the evaporation ponds and infiltration basin(s) in gallons/month during the reporting period.
2. Estimated total volume of fluid contained in each evaporation pond, and infiltration basin(s) by the reporting time.
3. Estimated total volume of solid waste removed, if any, from the evaporation ponds, infiltration basin(s), sumps, and cooling tower catchment basin(s).
4. The general conditions of the evaporation ponds, infiltration basin(s), and sumps including any observation of erosion.
5. If any maintenance has been provided to the evaporation pond, infiltration basin(s), and sumps, a description of the subject maintenance shall be included.
6. For all occurrences of spills/leaks of reportable quantity during the reporting period, a summary of each incident detailing the essential points of the cause of the spill/leak shall be transmitted in the semi-annual report. The summary shall include estimated volumes of fluid or solid waste spilled/leaked, and a description of the management practices addressing each spill/leak of waste for each incident occurring in the reporting period.
7. Description of any detected liquid leaving or entering a WMU, if any, including estimated size of affected area, and flow volume.
8. A letter transmitting the essential points shall accompany each report. Such a letter shall include a discussion of any waste discharge requirement violations found since the last such report was submitted, and shall describe actions taken or planned, for correcting those violations. If the discharger has previously submitted a detailed time schedule for correcting the violations, a reference to the correspondence transmitting the schedule will be satisfactory. If no violations have occurred since the last submittal, this shall be stated in the letter of transmittal. Monitoring reports and the letter transmitting the monitoring reports shall be signed by a principal executive officer, at the level of vice-president or above, or by his/her duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates. The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the report is true, complete, and correct;

b. Evaporation Ponds and Infiltration Basin(s) Monitoring:

The evaporation ponds and infiltration basin(s) monitoring system consists of a number of liquid wastes monitoring approach. The liquid waste monitoring sampling assists in determining whether the groundwater has been or might be impacted by the discharge operation. The monitoring and reporting frequency is semi-annual and annual. The following are the monitoring and reporting requirements:

1. Pre-sampling for Samples Obtained From the Evaporation Ponds, Infiltration Basin(s), Sumps, Leak Detection Wells of the Evaporation Ponds, and Ground Water Monitoring Wells: For each monitoring point addressed by the report, a description of the calibration of the field equipment, method and time of water level measurement, the placement of the sampler in the ponds, basin(s), and sumps, method of rinsing the equipment, methods used to monitor field pH, temperature, conductivity, and the method of disposing of the rinse water.
2. Sampling: For each monitoring point addressed by the report, a description of the type of sampler - or other device - used and its placement for sampling, and detailed description of the sampling procedure (number and description of the samples, field blanks, travel blanks, and duplicate samples taken, the type of containers and preservatives used, the date and times of sampling, the names and qualifications of the person actually taking the samples, and any other observations).
3. Water samples shall be collected twice per year (by June and December each year following adoption of this Board Order) from the evaporation ponds and infiltration basin(s), if any water is present during the reporting period, and shall be analyzed for the following constituents: suspended solids, total dissolved solids, pH, specific conductance, carbonate, phosphate, sulfate, iron, and oil and grease.
4. Water samples also shall be collected once per year from the evaporation ponds, infiltration basin(s), and sumps, if any, by November/December of each year following adoption of this Board Order, and analyzed for the following constituents: pH, arsenic, antimony, cadmium, lead, total chromium, hexavalent chromium, copper, manganese, barium, calcium, magnesium, potassium, sodium, zinc, and total petroleum hydrocarbons.
5. If the evaporation ponds and infiltration basin(s) are dry by the sampling times, and liquid or solid waste has been discharged during the year to the WMU, soil samples shall be collected and analyzed once per year for the following constituents: total dissolved solids, pH, specific conductance, carbonate, phosphate, sulfate, iron, oil and grease, arsenic, antimony, lead, total chromium, hexavalent chromium, cadmium, manganese, magnesium, potassium, sodium, copper, barium, zinc, and total petroleum hydrocarbons.

c. Groundwater Wells Monitoring:

The groundwater wells monitoring system consist of groundwater monitoring approach. The groundwater monitoring sampling assists in determining whether the ground water has been or might be impacted by the discharge operation. The monitoring and reporting frequencies are semi-annual and annually. The following are the monitoring and reporting requirements:

1. Water samples shall be collected twice per year (by June and December each year following adoption of this Board Order) from the ground water monitoring wells MW-1, MW-2, MW-3, MW-4, MTP-MW1, WTP-MW2, MTP-MW3, and MTP-MW4, and shall be analyzed for the following constituents: suspended solid, total dissolved solids, pH, specific conductance, carbonate, phosphate, sulfate, magnesium, potassium, calcium, sodium, VOCs, and total hydrocarbon compounds.

2. Water samples also shall be collected once per year (by December) from the MW-1, MW-2, MW-3, MW-4, MTP-MW1, WTP-MW2, MTP-MW3, and MTP-MW4, and analyzed for the following constituents: arsenic, antimony, cadmium, lead, total chromium, hexavalent chromium, copper, manganese, barium, zinc, iron, cadmium.
3. If liquid is detected at the two leak detection wells located by the evaporation ponds, liquid samples shall be collected twice per year (by June and December), and analyzed for the following constituents: arsenic, antimony, cadmium, lead, total chromium, hexavalent chromium, copper, manganese, barium, sodium, zinc, iron, cadmium, VOCs, total hydrocarbon compounds.
4. Water samples shall be collected once per year (by December) from the ground water supply wells GW-1 and GW-2, and shall be analyzed for the following constituents: suspended solid, total dissolved solids, pH, specific conductance, carbonate, phosphate, sulfate, magnesium, potassium, calcium, sodium, total chromium, hexavalent chromium and VOCs.

2. Annual Summary Report

The discharger shall submit an annual report in March of the following year to the Regional Board covering the previous monitoring year. The reporting period ends December 31 of each year. This report shall contain:

- a. All monitoring analytical data obtained during the previous two six-month Reporting Periods shall be presented in tabular form;
- b. A comprehensive discussion of compliance record, and the result of any corrective actions taken or planned which may be needed to bring the discharge into full compliance with the waste discharge requirements;
- c. A written summary of water or solid waste analyses, indicating any changes, if any, made since the previous annual report.

3. Contingency Reporting

- a. The discharger shall report by telephone concerning any release of reportable quantity of waste material from the designated area within 48 hours after it is discovered. A written report shall be filed with the Regional Board within seven (7) days, containing at least the following information:
 1. A map showing the location(s) of the discharge; and
 2. A description of the nature of the discharge (e.g., all pertinent observation and analyses); and
 3. Corrective measures underway or proposed.
- b. Should a release be tentatively identified, the discharger shall verbally notify within 48 hours the Regional Board as to the monitoring point(s) and constituents or parameter(s) involved, shall provide written notification within seven days of such determination, and shall carry out a discrete retest. If the retest confirms the existence of a release, the discharger shall carry out the requirements of C.3.d. below. In any case, the discharger shall inform the Regional Board of the outcome of the retest as soon as the results are available, following up with written results submitted by certified mail within seven days of completing the retest.
- c. If either the discharger or the Regional Board determines that there is significant physical evidence of a release, the discharger shall immediately notify the Regional Board of this fact

(or acknowledge the Regional Board's determination) and shall carry out the requirements of C.3.d. below for all potentially-affected monitored media.

- d. If the discharger concludes that a release has been discovered:
 - 1. If this conclusion is not based upon "direct monitoring" of the Constituent of Concern, then the discharger shall, within thirty days, sample for all Constituents of Concern at all Monitoring Points and submit them for laboratory analysis. Within seven days of receiving the laboratory analytical results, the discharger shall notify the Regional Board, of the concentration of all Constituents of Concern at each Monitoring Point.
 - 2. The discharger shall, within 90 days of discovering the release, submit a Revised Report of Waste Discharge proposing an Evaluation Monitoring Program.
 - 3. The discharger shall, within 180 days of discovering the release, submit a preliminary engineering feasibility study for remediation.
- e. Any time the discharger concludes - or the Regional Board Executive Officer concludes - that a liquid - or gaseous - phase release from the facility has proceeded beyond the facility boundary, the discharger shall so notify all persons who either own or reside upon the land that directly overlies any part of the plume (affected persons).
 - 1. Initial notification to affected persons shall be accomplished within seven days of making this conclusion and shall include a description of the discharger's current knowledge of the nature and/or extent of the release; and
 - 2. Subsequent to initial notification, the discharger shall provide updates to all Affected Persons - including any newly Affected Persons - within seven days of concluding there has been any material change in the nature and/or extent of the release.

D. RECORDS TO BE MAINTAINED

Written reports shall be maintained by the discharger or laboratory, and shall be retained for a minimum of five years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board. Such records shall show the following for each sample:

- 1. Identity of sample and of the monitoring point from which it was taken, along with the identity of the individual who obtained the sample;
- 2. The date, exact places, and time of sampling or measurement(s);
- 3. The individual(s) who performed the sampling or measurement(s);
- 4. The date(s) and time analyses were started and completed;
- 5. The individual(s) responsible for reviewing the analyses;
- 6. Complete procedure used, including method of preserving the sample, and the identity and volumes of reagent used;
- 7. The analytical techniques or methods used; and calculation of the results; and
- 8. Result of analyses, and the Maximum Detection Limit (MDL) for each analysis

SUMMARY OF MONITORING AND REPORTING REQUIREMENTS

C.(1.)(a). General Information

Sampling Reporting

<u>Parameters</u>	<u>Unit</u>	<u>Frequency</u>	<u>Frequency</u>
1. Estimated volume of fluid discharged to the evaporation ponds and infiltration basin(s)	Gallons/month		Semi-annual
2. Estimated volume of fluid contained in each evaporation pond and infiltration basin(s)	Gallons	-----	Semi-annual
3. Estimated total volume of solid removed, if any, from the infiltration basin(s), evaporation ponds, sumps, and cooling tower basin(s).	tons/lbs.		Semi-annual
4. Condition of the evaporation ponds, infiltration basin(s), and sumps.	-----	-----	Semi-annual
5. Description of maintenance provided to the evaporation ponds, infiltration basin(s), and sumps.	-----	-----	Semi-annual
6. A summary report of spills/leaks of reportable quantity, if any.	-----	-----	Semi-annual
7. Description of any detected liquid leaving or entering the WMU, including affected area, and flow volume.	-----	-----	Semi-annual
8. Letter of transmittal	-----	-----	Semi-annual

C.(1).(b). Evaporation Ponds and Infiltration Basin(s) Monitoring

<u>Parameters</u>	<u>Unit</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
1. Description of pre-sampling for samples obtained from the ponds and infiltration pond.	----	Semi-annual	Semi-annual
2. Description of sampling procedure	-----	Semi-annual	Semi-annual
3. Collect samples from the evaporation ponds and infiltration basin(s) and analyze for the following:			
a. Suspended solids	mg/L	Semi-annual	Semi-annual
b. Total dissolved solids	mg/L	Semi-annual	Semi-annual
c. pH	#	Semi-annual	Semi-annual
d. Specific conductance	µmohs/cm	Semi-annual	Semi-annual
e. Carbonate	mg/L	Semi-annual	Semi-annual
f. Phosphate	mg/L	Semi-annual	Semi-annual
g. Sulfate	mg/L	Semi-annual	Semi-annual
h. Iron	mg/L	Semi-annual	Semi-annual
i. Oil and grease	mg/L	Semi-annual	Semi-annual
4. Also, collect samples from the evaporation ponds, infiltration basin(s) and sumps, and analyze for the following:			
a. pH	#	Annually	Annually
b. Arsenic	mg/L	Annually	Annually
c. Antimony	mg/L	Annually	Annually

d. Cadmium	mg/L	Annually	Annually
e. Lead	mg/L	Annually	Annually
f. Total chromium	mg/L	Annually	Annually
g. Hexavalent chromium	mg/L	Annually	Annually
h. Copper	mg/L	Annually	Annually
i. Manganese	mg/L	Annually	Annually
j. Barium	mg/L	Annually	Annually
k. Calcium	mg/L	Annually	Annually
l. Magnesium	mg/L	Annually	Annually
m. Potassium	mg/L	Annually	Annually
n. Sodium	mg/L	Annually	Annually
o. Zinc	mg/L	Annually	Annually
p. Total petroleum hydrocarbon	mg/L	Annually	Annually

5. Collect solid waste samples (if evaporation ponds and infiltration basin(s) are dry by the sampling time and liquid or solid has been discharged) and analyze the solids for the following:

a. Total dissolved solids	mg/L	Annually	Annually
b. pH	#	Annually	Annually
c. Specific conductance	µmohs/cm	Annually	Annually
d. Carbonate	mg/L	Annually	Annually
e. Phosphate	mg/L	Annually	Annually
f. Sulfate	mg/L	Annually	Annually
g. Iron	mg/L	Annually	Annually
h. Oil and grease	mg/L	Annually	Annually
i. Arsenic	mg/L	Annually	Annually
j. Antimony	mg/L	Annually	Annually
k. Lead	mg/L	Annually	Annually
l. Total chromium	mg/L	Annually	Annually
m. Hexavalent chromium	mg/L	Annually	Annually
n. Cadmium	mg/L	Annually	Annually
o. Manganese	mg/L	Annually	Annually
p. Magnesium	mg/L	Annually	Annually
q. Potassium	mg/L	Annually	Annually
r. Sodium	mg/L	Annually	Annually
s. Copper	mg/L	Annually	Annually
t. Barium	mg/L	Annually	Annually
u. Zinc	mg/L	Annually	Annually
v. Total petroleum hydrocarbon	mg/L	Annually	Annually

C.(1.)(c). Ground Water Wells Monitoring

1. Collect samples and analyze for the following:

a. Suspended solids	mg/L	Semi-annual	Annually
b. Total dissolved solids	mg/L	Semi-annual	Annually
c. pH	#	Semi-annual	Annually
d. Specific conductance	µmohs/cm	Semi-annual	Annually
e. Carbonate	mg/L	Semi-annual	Annually
f. Phosphate	mg/L	Semi-annual	Annually
g. Sulfate	mg/L	Semi-annual	Annually
h. Magnesium	mg/L	Semi-annual	Annually
i. Potassium	mg/L	Semi-annual	Annually
j. Calcium	mg/L	Semi-annual	Annually
k. Sodium	mg/L	Semi-annual	Annually

l. VOCs	mg/L	Semi-annual	Annually
m. Total hydrocarbon compounds	mg/L	Semi-annual	Annually
2. Collect samples and analyze for the following:			
a. Arsenic	mg/L	Annually	Annually
b. Antimony	mg/L	Annually	Annually
c. Cadmium	mg/L	Annually	Annually
d. Lead	mg/L	Annually	Annually
e. Total chromium	mg/L	Annually	Annually
f. Hexavalent chromium	mg/L	Annually	Annually
g. Copper	mg/L	Annually	Annually
h. Manganese	mg/L	Annually	Annually
i. Barium	mg/L	Annually	Annually
j. Zinc	mg/L	Annually	Annually
k. Iron	mg/l	Annually	Annually
l. Cadmium	mg/L	Annually	Annually
3. If liquid is detected at the two leak detection wells located by the evaporation ponds, collect samples and analyze for the following:			
a. Arsenic	mg/L	Annually	Annually
b. Antimony	mg/L	Annually	Annually
c. Cadmium	mg/L	Annually	Annually
d. Lead	mg/L	Annually	Annually
e. Total chromium	mg/L	Annually	Annually
f. Hexavalent chromium	mg/L	Annually	Annually
g. Copper	mg/L	Annually	Annually
h. Manganese	mg/L	Annually	Annually
i. Barium	mg/L	Annually	Annually
j. Sodium	mg/L	Annually	Annually
k. Zinc	mg/L	Annually	Annually
l. Iron	mg/l	Annually	Annually
m. Cadmium	mg/L	Annually	Annually
n. VOCs	mg/L	Annually	Annually
o. Total hydrocarbon compounds	mg/l	Annually	Annually
4. Collect samples from groundwater supply wells GW-1 and GW-2 and analyze for the following:			
a. Suspended solids	mg/L	Annually	Annually
b. Total dissolved solids	mg/L	Annually	Annually
c. pH	#	Annually	Annually
d. Specific conductance	μmohs/cm	Annually	Annually
e. Carbonate	mg/L	Annually	Annually
f. Phosphate	mg/L	Annually	Annually
g. Sulfate	mg/L	Annually	Annually
h. Magnesium	mg/L	Annually	Annually
i. Potassium	mg/L	Annually	Annually
j. Calcium	mg/L	Annually	Annually
k. Sodium	mg/L	Annually	Annually
l. Total chromium	mg/L	Annually	Annually
m. Hexavalent chromium	mg/L	Annually	Annually
n. VOCs	mg/L	Annually	Annually
C.(2.) Annual Summary Report	-----	-----	Annually
C.(3.) Contingency Reporting	-----	-----	Within 48 hrs.

REPORTING

1. The discharger shall arrange the data in tabular form so that the specified information is readily discernible. The data shall be summarized in such a manner as to clearly illustrate whether the facility is operating in compliance with waste discharge requirements.
2. Record of monitoring information shall include:
 - a. The date, exact places, and time of sampling or measurement(s);
 - b. The individual(s) who performed the sampling or measurement(s);
 - c. The date(s) analyses were performed;
 - d. The individual(s) responsible for reviewing the analyses;
 - e. The analytical techniques or method used; and
 - f. The result of such analyses.
3. Each report shall contain the following statement:

"I declare under the penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

4. A duly authorized representative of the discharger may sign the documents if:
 - a. The authorization is made in writing by the person described above;
 - b. The authorization specified an individual or person having responsibility for the overall operation of the regulated disposal system; and
 - c. The written authorization is submitted to the Regional Board's Executive Officer.
5. Monitoring reports shall be certified under penalty of perjury to be true and correct, and shall contain the required information at the frequency designated in this monitoring report.
6. Semi-annual monitoring reports shall be submitted to the Regional Board in accordance with the following schedule:

First Semi-annual (January 1 through June 30) - due July 31

Second Semi-annual (July 1 through December 31) - due February 15

7. Annual summary report shall be submitted to the Regional Board by March 15 of each year.
8. Submit Monitoring Reports to:

California Regional Water Quality Control Board
Colorado River Basin Region
73-720 Fred Waring Drive, Suite 100
Palm Desert, CA 92260

Ordered by: original signed by/
Executive Officer

November 8, 2000
Date
