

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

ORDER NO. 91-020

WASTE DISCHARGE REQUIREMENTS
FOR
SOUTHERN CALIFORNIA GAS COMPANY
SOUTH NEEDLES COMPRESSOR STATION
South of Needles - San Bernardino County

The California Regional Water Quality Control Board, Colorado River Basin Region, finds that:

1. Southern California Gas Company (hereinafter also referred to as the discharger), 810 South Flower Street, Los Angeles, California 90017 submitted a report of waste discharge dated December 27, 1990.
2. The discharger owns and operates the South Needles Compressor Station, located 11 miles south of Needles on Highway 95. The purpose of the station is to compress natural gas for transmission to the Los Angeles area.
3. The discharger proposes to discharge an annual average of 28,000 gallons-per-day (gpd) of industrial wastewater from the compressor station into three new evaporation basins. These basins will be located in the SW $\frac{1}{4}$ of NW $\frac{1}{4}$ and NW $\frac{1}{4}$ of SW $\frac{1}{4}$ of Section 17, T7N, R23E, SBB&M, as indicated on the attached site map.
4. The three basins will be located and constructed in accordance with Class II surface impoundment standards in Chapter 15, Title 23 of the California Code of Regulations. Briefly, the basins will provide a total evaporative surface area of 207,552 square feet at the freeboard line and an evaporative capacity of 9.5 million gallons of wastewater per year under historic climatic conditions. The primary liner in the basins will be a 40-mil layer of Seaman's XR-40, which is a resin coated polyester material (chosen for its thermal and chemical resistance properties). The secondary liner will be 40-mil PVC. Separating the two liners in each basin will be a drainage netting which leads to a sump and leak collection system. Underlying the secondary liner will be a geotextile cushion against the native soil. The impoundments have been designed to eliminate penetration of the primary and secondary liners by leak collection pipes. The wastewater delivery pipeline will be valved such that wastewater can be delivered to any of the three basins.
5. Industrial wastewater discharge are from two major sources:
 - a. Sodium zeolite water softeners discharge about 7,000 gpd of sodium chloride and rinse water solution having a total dissolved solids content (TDS) of 8,000-10,000 ppm and a pH of about 7.9.

b. Cooling towers discharge about 17,000 gpd of blowdowns, having a TDS of 8,000 - 10,000 ppm and a pH of about 7.9. The cooling water is treated with sulfuric acid for pH control and a polyacrylate as scale inhibitor.

The minor wastestream is effluent from the reverse osmosis system which will also be routed to the evaporation basins. Stormwater runoff will be collected and routed to the southeast corner of the compressor station where it enters the natural land drainage downgradient from the station.

6. On-site sanitary wastewater is separately disposed of through septic tanks and a leach lines system.
7. The proposed discharge has been subject to waste discharge requirements adopted in Board Order No. 83-110 under which said industrial wastewater has been discharged to unlined earthen basins located in portions of Sections 17 and 18, T7N, R23E, SBB&M. Board Order No. 83-110 would be rescinded upon completion of construction of the proposed new evaporation basins and commencement of this discharge to these new basins. There will be no significant change on the volume of discharge.
8. The purpose of this Board Order is to bring the said discharge into compliance with the requirements for designated wastes discharge in Chapter 15, Title 23 of the California Code of Regulations.
9. In accordance with the requirements for ground water quality monitoring in Article 5, Chapter 15, Title 23 of the California Code of Regulations, the discharger has proposed a system of eight monitoring wells (two upgradient and six downgradient wells), as indicated in Attachment No. 2 of this Board Order.
10. The discharger reports that vadose zone monitoring at the site is infeasible because of the nature of underlying soil, the very dry climate, and the unsuitable site terrain.
11. The Water Quality Control Plan for the Colorado River Basin Region of California designates the beneficial uses of ground and surface waters in this Region.
12. The beneficial uses of ground waters in the Piute Hydrologic Unit are:
 - a. Municipal supply (MUN)
 - b. Industrial supply (IND)
 - c. Agricultural supply (AGR)

However ground water in the immediate vicinity of the discharge is not beneficially used due to its scarcity.

13. Process water is pumped to the station from a well located about 10 miles away in Needles.
14. The Board has notified the discharger and all known interested agencies and persons of its intent to update waste discharge requirements for this discharge.

15. The Board in a public meeting heard and considered all comments pertaining to this discharge.
16. In accordance with Section 15301, Chapter 3, Title 14 of the California Code of Regulations, the issuance of these waste discharge requirements, which govern the operation of an existing facility involving negligible or no expansion of use beyond that previously existing, is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 21000 et seq.).

IT IS HEREBY ORDERED, that the discharger shall comply with the following:

A. Discharge Specifications

1. The treatment or disposal of wastes at this facility shall not cause pollution or nuisance as defined in Sections 13050(1) and 13050(m) of Division 7 of the California Water Code.
2. The discharge of industrial wastewater shall be confined to the three evaporation basins located and constructed as described in Findings No. 3 and 4 of this Board Order.
3. A minimum depth of freeboard of two (2) feet shall be maintained at all times in the basins.
4. The rate/volume of industrial waste discharge shall not exceed the design capacity of the three basins.
5. Adequate measures shall be taken to assure that flood or surface drainage waters do not erode or otherwise render portions of the discharge facilities inoperable.
6. Residual solids removed from the evaporation basins shall only be disposed of in accordance with the approval of the Executive Officer.
7. Without the prior written approval of the Executive Officer, the discharger shall not use any treatment chemicals or additives other than those listed in Finding No. 5 of this Board Order.

B. Prohibition

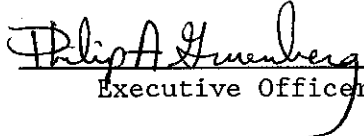
1. The use of hazardous chemicals including chromates in the cooling tower water treatment process is prohibited.

C. Provisions

1. The discharger shall ensure that all site operating personnel are familiar with the content of this Board Order.
2. The discharger shall comply with "Monitoring and Reporting Program No. 91-020", and future revisions thereto as specified by the Executive Officer.

3. Prior to any change in ownership or management of this operation, the discharger shall transmit a copy of this Board Order to the succeeding owner/operator, and forward a copy of the transmittal letter to the Regional Board.
4. This Board Order does not authorize violation of any federal, state or local laws or regulations.
5. The discharger shall comply with Chapter 15, Title 23 of the California Code of Regulations, as applicable to Class II surface impoundments including:
 - a. Class II Waste Management Units for Designated Wastes: Article 3, Section 2532;
 - b. Construction Standards: Article 4, Sections 2540, 2541, 2542, 2543, 2546, 2567, and 2548;
 - c. Water Quality Monitoring for Classified Waste Management Units: Article 5, Sections 2550 through 2558;
 - d. Surface Impoundment Closure Requirements: Article 8, Section 2582.

I, Philip A. Gruenberg, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, Colorado River Basin Region, on March 13, 1991.



Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM NO. 91-020
FOR
SOUTHERN CALIFORNIA GAS COMPANY
SOUTH NEEDLES COMPRESSOR STATION
South of Needles - San Bernardino County

Location of Discharge: SW $\frac{1}{4}$ of NW $\frac{1}{4}$ and NW $\frac{1}{4}$ of SW $\frac{1}{4}$ of Section 17, T7N, R23E, SBB&M

MONITORING

A. Evaporation Basins Monitoring

1. The wastewater discharged to the three basins shall be monitored for analyses of constituents/parameters indicated below:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
a. Total Dissolved Solids (TDS)	mg/l	Grab	Semi-annually
b. Specific Conductance	micromhos/cm	Grab	Semi-annually
c. pH	-	Grab	Semi-annually
d. Chromium (Total)	mg/l	Grab	Semi-annually
e. Calcium	mg/l	Grab	Semi-annually
f. Magnesium	mg/l	Grab	Semi-annually
g. Potassium	mg/l	Grab	Semi-annually
h. Sodium	mg/l	Grab	Semi-annually
i. Boron	mg/l	Grab	Semi-annually
j. Fluoride	mg/l	Grab	Semi-annually
k. Sulfates	mg/l	Grab	Semi-annually
l. Chlorides	mg/l	Grab	Semi-annually
m. Nitrates	mg/l	Grab	Semi-annually
n. Volume of Wastewater discharged to the three basins	gallons/day		Daily with average monthly flow calculated & reported semi-annually

2. Leachate Collection and Removal System Monitoring

Leachate collection sumps for the evaporation basins shall be monitored weekly to check whether or not the liner system is leaking. In case of a leak being detected in the liner system, the discharger shall report the same immediately to the Regional Board. Otherwise, the "no leak detected" information shall be submitted on a semi-annual basis.

B. Ground Water Monitoring

The discharger shall obtain representative samples of ground water from the proposed two upgradient and six downgradient ground water monitoring wells for analyses of constituents indicated below:

<u>Constituent</u>	<u>Unit</u>	<u>Sampling Frequency</u>
a. Total Dissolved Solids (TDS)	mg/l	Semi-annually
b. Specific Conductance	micromhos/cm	Semi-annually
c. pH	-	Semi-annually
d. Chromium (Total)	mg/l	Semi-annually
e. Calcium	mg/l	Semi-annually
f. Magnesium	mg/l	Semi-annually
g. Potassium	mg/l	Semi-annually
h. Sodium	mg/l	Semi-annually
i. Boron	mg/l	Semi-annually
j. Fluoride	mg/l	Semi-annually
k. Sulfates	mg/l	Semi-annually
l. Chlorides	mg/l	Semi-annually
m. Nitrates	mg/l	Semi-annually

The collection, preservation and holding times of all samples shall be in accordance with the U.S. Environmental Protection Agency (EPA) recommended methods for all the aforementioned constituents.

REPORTING

Monitoring reports shall be submitted to the Regional Board by July 15 and January 15 of each year.

Forward monitoring reports to:

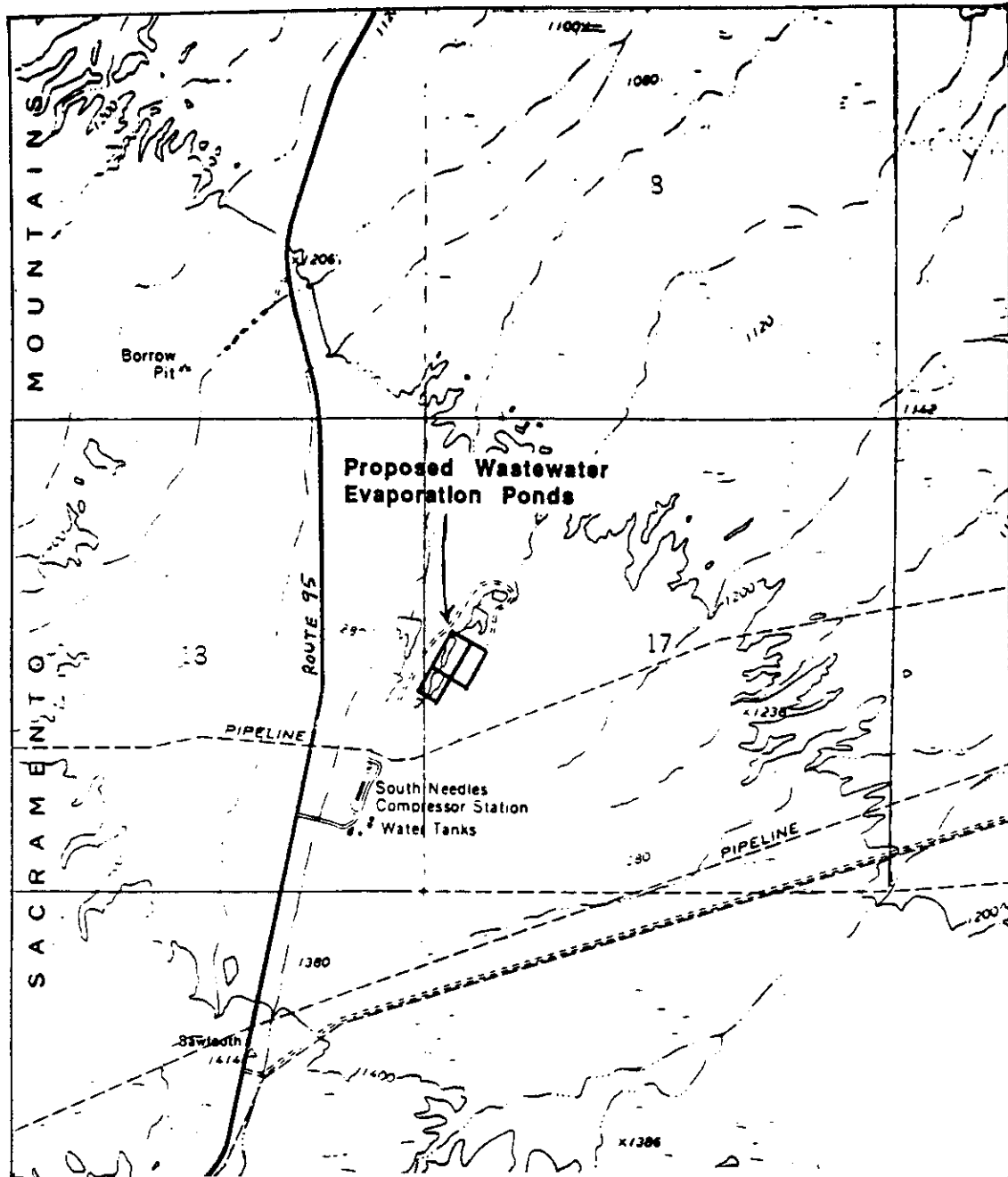
California Regional Water Quality Control Board
Colorado River Basin Region
73-271 Highway 111, Suite 21
Palm Desert, CA 92260

ORDERED BY:

Philip A. Greenberg
Executive Officer

March 13, 1991

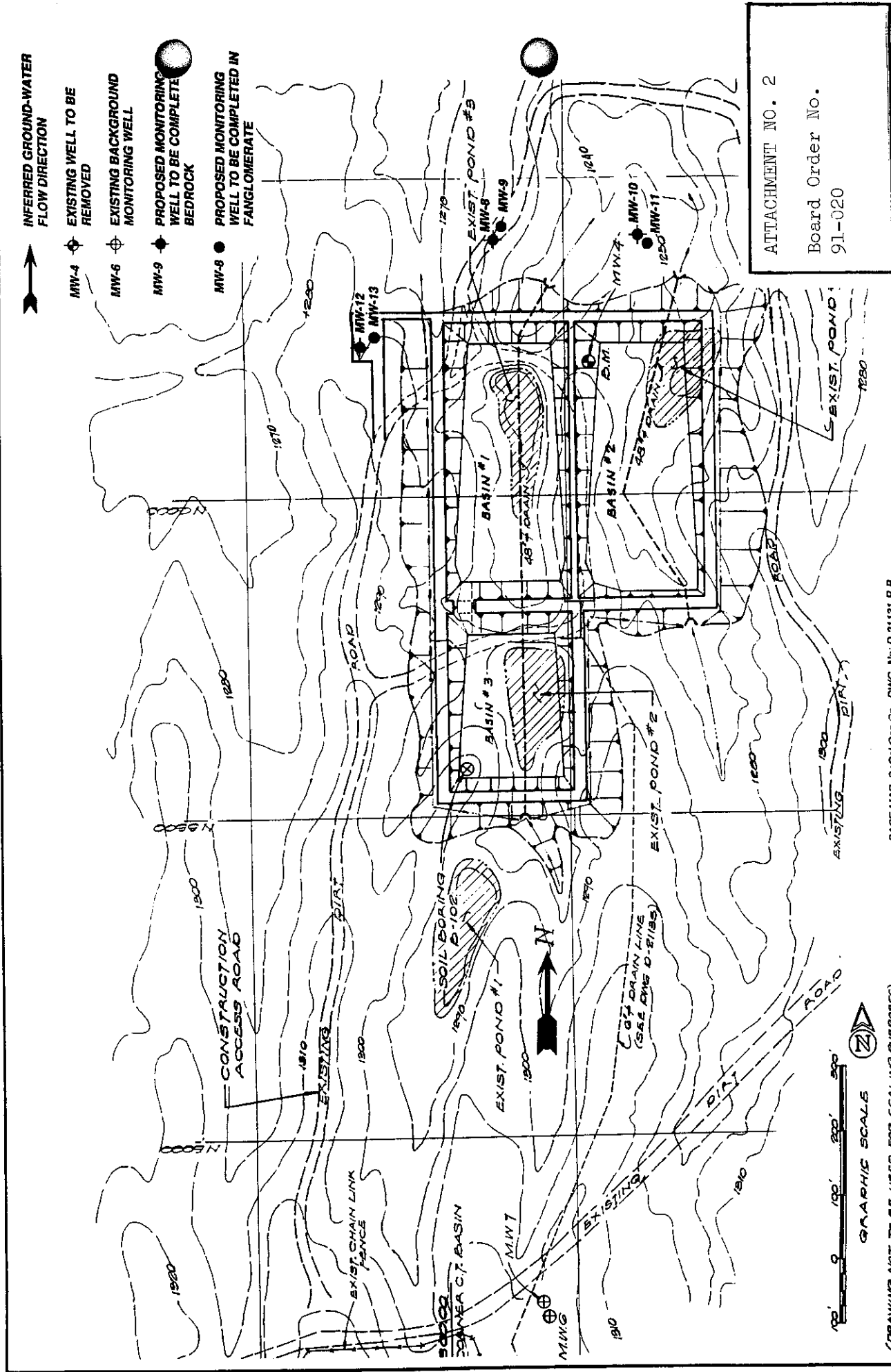
Date



SITE MAP

SOUTHERN CALIFORNIA GAS COMPANY
SOUTH NEEDLES COMPRESSOR STATION
South of Needles - San Bernardino County
Location of Discharge: SW $\frac{1}{4}$ of NW $\frac{1}{4}$ and NW $\frac{1}{4}$ of SW $\frac{1}{4}$ of Section 17, T7N, R23E SBB&M
USGS Whale Mtn, California-Arizona 7.5 min. Topographic Map

Proposed Monitoring Well Locations



ATTACHMENT NO. 2
 Board Order No.
 91-020