

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

ORDER NO. 93-031

WASTE DISCHARGE REQUIREMENTS
FOR
U.S. MARINE CORPS BASE
CAMP WILSON WASTEWATER TREATMENT PLANT
Northeast of Twentynine Palms - San Bernardino County

*Superseded
by S.D. 4*

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

1. A Report of Waste Discharge was submitted for the U.S. Marine Corps Base - Camp Wilson (hereinafter referred to as the discharger) by the Natural Resources and Environmental Affairs (NREA) Directorate, Marine Corps Air Ground Combat Center (MCAGCC), Box 788110, Twentynine Palms, CA 92278-8110 and was considered complete on January 14, 1993. The discharger currently owns and operates the facility at Camp Wilson.
2. The discharger is discharging a maximum of 80,000 gallons-per-day of domestic sewage into two oxidation basins, which overflow into another basin for final disposal by evaporation and infiltration. The basins are located in the NW $\frac{1}{4}$ of Section 33, T3N, R8E, SBB&M. This camp's sewage disposal system is designed for a maximum flow of 120,000 gallons-per-day. The camp is approximately nine (9) miles northwest of the main camp and is situated within the boundaries of the base.
3. This discharge has been subject to waste discharge requirements adopted in Board Order No. 88-015.
4. There are no domestic wells within 500 feet of the wastewater discharge facilities described in Finding No. 2, above.
5. The Water Quality Control Plan for the Colorado River Basin Region of California was adopted May 15, 1991 and designates the beneficial uses of ground and surface waters in this Region.
6. The beneficial uses of ground waters in the Dale Hydrologic Unit are:
 - a. Municipal supply (MUN)
 - b. Industrial supply (IND)
 - c. Agricultural supply (AGR)
7. Studies recently done within Section 33, T3N, R8E, SBB&M indicate the ground water depth is approximately thirty (30) feet.
8. Federal regulations for storm water discharges were issued by the U.S. Environmental Protection Agency on November 16, 1990 (40 Code of Federal Regulations (CFR) Parts 122, 123, and 124). In conformance with these regulations, the State Water Resources Control Board adopted a general

SUPERSEDED BY
BOARD ORDER NO. R7-2002-0002

03-13-02

permit for storm water discharges associated with industrial activities. Water Quality Order No. 91-13-DWQ (as amended by Water Quality Order 92-12-DWQ), NPDES No. CAS000001, on September 17, 1992. Industrial facilities, including sewage treatment plants, are required to obtain NPDES permits for their storm water discharges.

9. The Board has notified the discharger and all known interested agencies and persons of its intent to update waste discharge requirements for this discharge.
10. The Board in a public meeting heard and considered all comments pertaining to this discharge.
11. 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 Board Order No. 88-015 is rescinded and in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, 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. Representative samples of wastewater effluent discharged to evaporation and infiltration basins from treatment facilities shall not contain constituents in excess of the following limits:

<u>Constituent</u>	<u>Unit</u>	30-Day ¹ Arithmetic Mean <u>Discharge Rate</u>	7-Day ² Arithmetic Mean <u>Discharge Rate</u>
20°C BOD ₅	mg/L ³	45	65
Suspended Solids	mg/L	95	--

¹ 30-Day Mean - The arithmetic mean of pollutant parameter values of samples collected in a period of 30 consecutive days.

² 7-Day Mean - The arithmetic mean of pollutant parameter values of samples collected in a period of 7 consecutive days.

³ mg/L - milligrams per Liter

<u>Constituent</u>	<u>Unit</u>	<u>30-Day¹ Arithmetic Mean Discharge Rate</u>	<u>7-Day² Arithmetic Mean Discharge Rate</u>
Settleable Matter	ml/L ⁴	0.3	0.5

3. Sewage sludge shall not be discharged to any natural or artificial channel, or waterway.
4. There shall be no surface flow of wastewater away from the designated disposal areas.
5. A minimum depth of freeboard of two (2) feet shall be maintained at all times in basins.
6. Objectionable odors originating at this facility shall not be perceivable beyond the limits of the wastewater treatment and disposal area.
7. The 30-day average daily dry weather discharge flow shall not exceed 0.12 MGD.
8. As a means of discerning compliance with Discharge Specification No. 6 for discharge to percolation ponds, the dissolved oxygen content in the upper zone (1 foot) of wastewater ponds shall not be less than 1.0 mg/L.
9. By pass or overflow of untreated or partially treated waste is prohibited unless approved by the Regional Board's Executive Officer.
10. Ponds shall be managed to prevent breeding of mosquitos. In particular,
 - a. An erosion control program should assure that small coves and irregularities are not created around the perimeter of the water surface.
 - b. Weeds shall be minimized through control of water depth, harvesting, or herbicides.
 - c. Dead algae, vegetation, and debris shall not accumulate on the water surface.
11. Ponds shall have sufficient capacity to accommodate allowable wastewater flow and design seasonal precipitation and ancillary inflow and infiltration during the non-irrigation season. Design seasonal precipitation shall be based on total annual precipitation using a return period of 100 years, distributed monthly in accordance with historical rainfall patterns. Freeboard shall never be less than two feet (measured vertically).
12. No wastewater other than domestic sewage shall be discharge to this facility.

⁴ ml/L - milliliters per Liter

13. Treatment and disposal basins shall be operated in such a way that there shall be no stranded or exposed sewage solids.
14. All treatment and disposal basins shall be operated in such a way that the basins maximize infiltration and minimize increases in salinity and are kept in an aerobic condition.

B. Provisions

1. The discharger shall obtain prior written approval from the Regional Board's Executive Officer specifying location and method of disposal, before disposing of treated or untreated sludge, or similar solid waste materials. In addition, the discharger shall provide the results of any sludge analyses as specified by the Regional Board's Executive Officer.
2. The discharger's wastewater treatment plant shall be supervised and operated by persons possessing certification of appropriate grade pursuant to Chapter 4, Division 4, Title 23 of the California Code of Regulations.
3. Adequate measures shall be taken to assure that flood or surface drainage waters do not erode or otherwise render portions of the wastewater treatment and discharge basins inoperable.
4. Prior to any modifications in this facility which would result in material change in the quality or quantity of wastewater treated or discharged, or any material change in the location of discharge, the discharger shall report all pertinent information in writing to the Regional Board; and obtain revised requirements before any modifications are implemented.
5. The discharger shall ensure that all site operating personnel are familiar with the content of this Board Order.
6. This Board Order does not authorize violation of any federal, state, or local laws or regulations.
7. Facilities shall be available to keep the plant in operation in the event of commercial power failure.
8. The discharger shall provide a plan as to the method, treatment, handling and disposal of sludge that is consistent with all state and federal laws and regulations. In addition, the discharger shall submit an annual report which gives the amount (in tons) and the method of all sludge disposal for the previous year.
9. The discharger shall comply with "Monitoring and Reporting Program No. 93-031", and future revisions thereto, as specified by the Regional Board's Executive Officer.
10. The discharger shall develop and implement a Storm Water Pollution Prevention Plan for this facility. The plan must be submitted to the Regional Board's Executive Officer for review and approval no later than 90 days after the adoption of this Board Order.
11. All storm water discharges from this facility must comply with the lawful requirements of municipalities, counties, drainage districts, and other

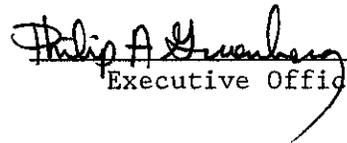
local agencies, regarding discharges of storm water to storm drain systems or other courses under their jurisdiction.

12. The discharger shall provide a report to the Regional Board when it determines that the treatment plant is operating a 80 percent of the design capacity as specified in Finding No. 2. The report should indicate what steps, if any, the discharger intends to take to provide for expected wastewater treatment capacities necessary.
13. This Board Order does not authorize violation of any federal, state, or local laws or regulations.
14. Facilities shall be available to keep the plant in operation in the event of commercial power failure.
15. The discharger shall allow the Regional Board, or an authorized representatives, upon presentation of credentials and other documents as may be required by law, to:
 - a. Enter upon the premises regulated by this Board Order, or the place where records must be kept under the conditions of this Board Order;
 - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Board Order;
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Board Order; and
 - d. Sample or monitor at reasonable times, for the purpose of assuring compliance with this Board Order or as otherwise authorized by the California Water Code, any substances or parameters at this location.
16. The discharger must comply with all of the conditions of this Board Order. Any noncompliance with this Board Order constitutes a violation of the Porter-Cologne Water Quality Control Act and is grounds for enforcement action.
17. The discharger shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) that are installed or used by the discharger to achieve compliance with this Board Order. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by a discharger only when necessary to achieve compliance with the conditions of this Board Order.
18. The discharger shall comply with the following:
 - a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
 - b. The discharger shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of

all reports required by this Board Order, and records of all data used to complete the application of this Board Order, for a period of at least 5 years from the date of the sample, measurement, report or application. This period may be extended by request from the Regional Board's Executive Officer at any time.

19. The discharger shall furnish, under penalty of perjury, technical monitoring program reports, and such report shall be submitted in accordance with specifications prepared by the Regional Board's Executive Officer. Such specifications are subject to periodic revisions as may be warranted.

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 May 19, 1993.


Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM NO. 93-031
FOR
U.S. MARINE CORPS BASE
CAMP WILSON WASTEWATER TREATMENT PLANT
Northeast of Twentynine Palms - San Bernardino County

Location of Discharge: Portion of the NW $\frac{1}{4}$ of Section 33, T3N, R8E, SBB&M

MONITORING

1. Effluent discharged to basins shall be monitored for the following:

<u>Constituents</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Volatile Organic Compounds (EPA Methods 601 and 602)	$\mu\text{g/L}^1$	Grab	Annually
Flow	GPD ²	Weekly	Weekly ³
Total Dissolved Solids	mg/L ⁴	Grab	Quarterly
Nitrate	mg/L	Grab	Quarterly
Total Nitrogen	mg/L	Grab	Quarterly
BOD	mg/L	Grab	Monthly
Total Suspended Solids	mg/L	Grab	Monthly
Settleable Matter	ml/L ⁵	Grab	Monthly
Total Petroleum Hydrocarbon	mg/L	Grab	Quarterly

2. The discharger shall also submit the following information with the monthly monitoring report:

- a. The number of persons discharging to the system.
- b. Explain any problems in the sewerage system during the month.
- c. The total dissolved solids content of the domestic water supply.

¹ $\mu\text{g/L}$ - micrograms per Liter

² GPD - Gallons per Day

³ Reported for each week with average monthly flow calculated

⁴ mg/L - milligrams per Liter

⁵ ml/L - milliliters per Liter

REPORTING

Monthly monitoring reports shall be submitted to the Regional Board by the 15th day of the following month. Quarterly monitoring reports shall be submitted to the Regional Board by January 15, April 15, July 15, and October 15 of each year. Annual monitoring reports shall be submitted to the Regional Board by January 15 of each year.

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 waste management unit is operating in compliance with waste discharge requirements.

The collection, preservation and holding times of all samples shall be in accordance with EPA-approved methods. All analyses shall be conducted by a laboratory certified by the State Department of Health Services to performed the required analyses.

A sampling point shall be located where representatives samples of effluent can be obtained.

Records of monitoring information shall include:

- a. The date, exact place, and time of sampling or measurement;
- b. The individual(s) who performed the sampling or measurement;
- c. The date(s) analyses were performed;
- d. The individual(s) who performed the analyses;
- e. The analytical techniques or methods used; and
- f. The results of such analyses.

A duly authorized representatives of the person designated above may sign documents if the authorization is made in writing by the person described above.

Each report shall contain the following completed certification:

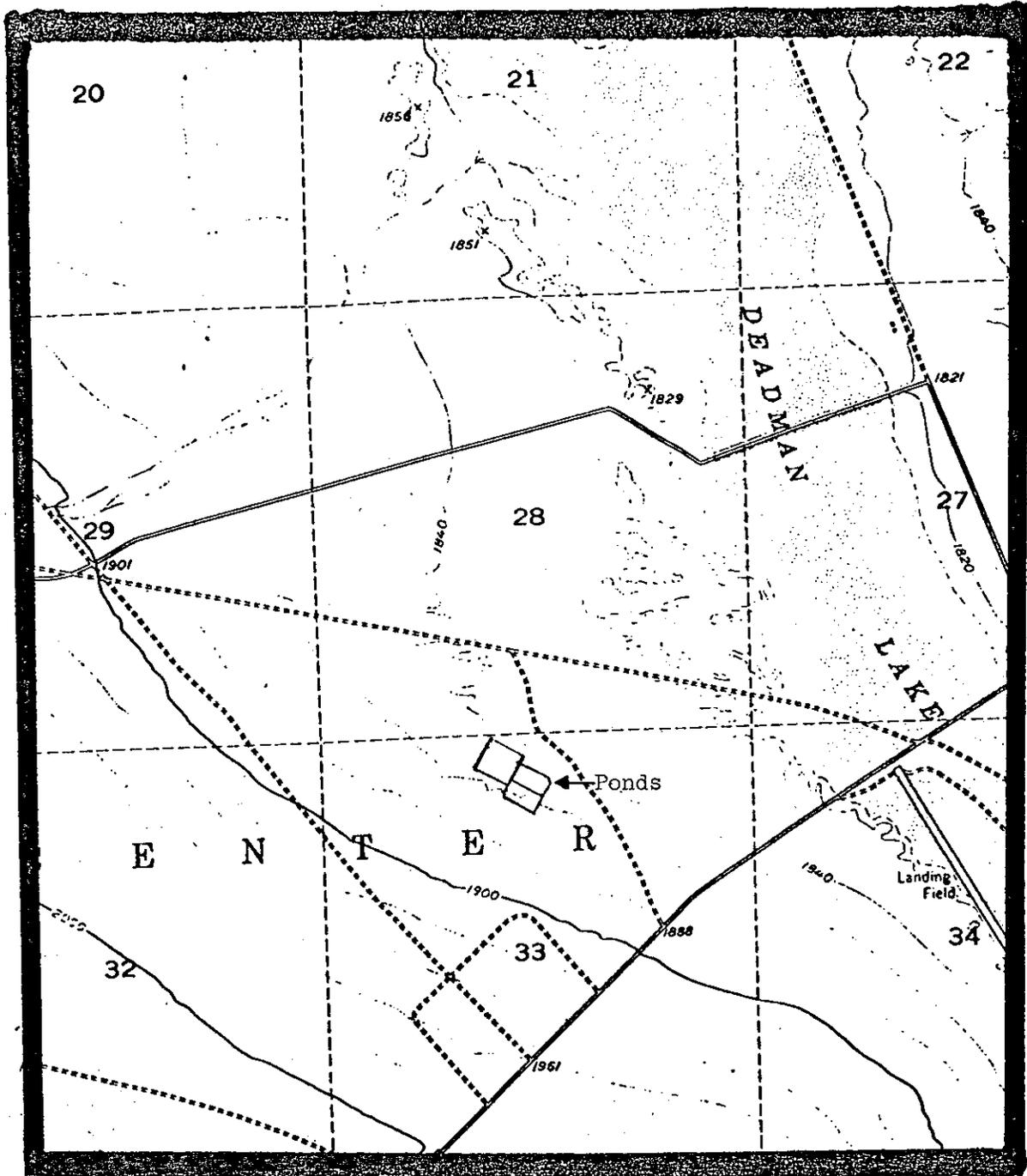
" I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachment and that, base on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate,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

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

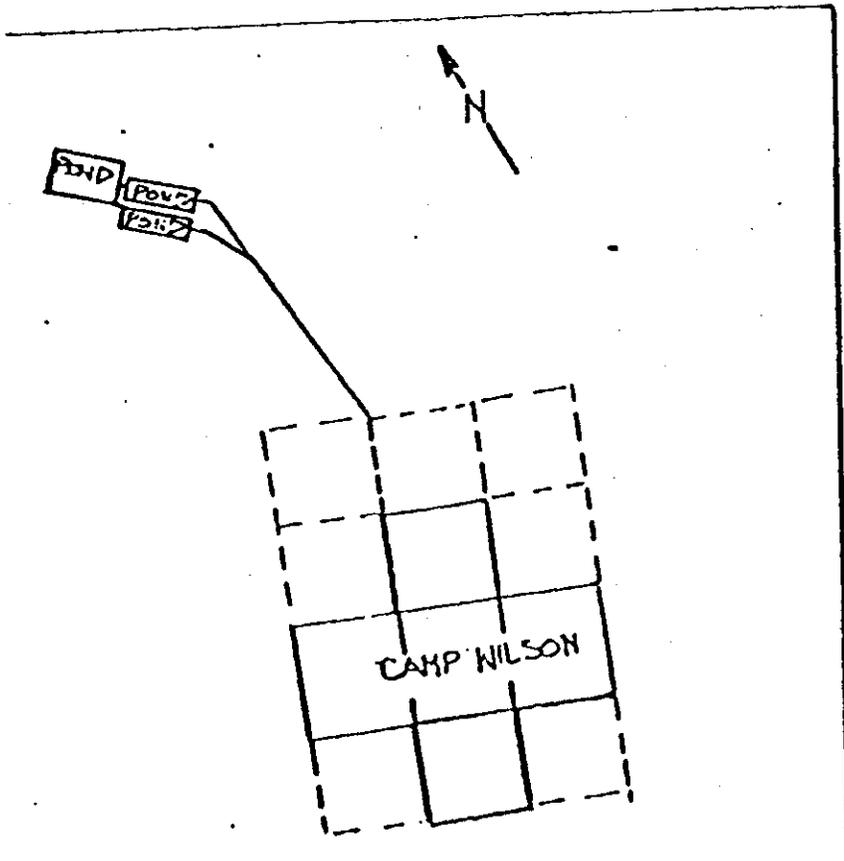
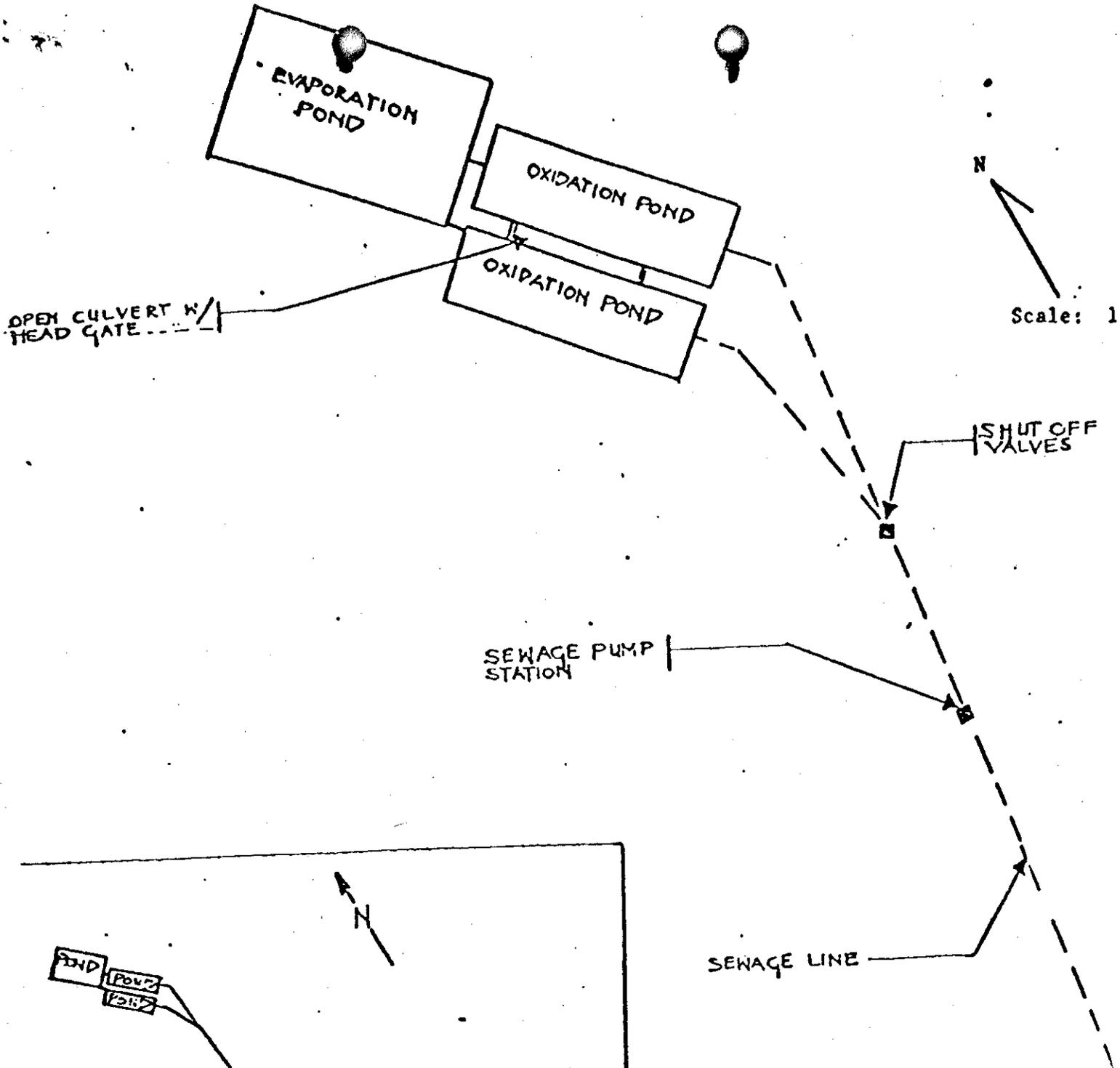
ORDERED BY: Philip A. Gwensberg
Executive Officer

May 19, 1993
Date



SITE MAP NO. 1

U.S. MARINE CORPS BASE
CAMP WILSON
NORTHEAST OF TWENTYNINE PALMS
San Bernardino County
Discharge Location: NW $\frac{1}{4}$ of Section 33, T3N, R8E, SBB&M
USGS Deadman Lake, 15 Min. Topographic Map



SITE MAP NO. 2

U.S. MARINE CORPS BASE
 CAMP WILSON WASTEWATER FACILITIES
 Northwest of Twentynine Palms
 San Bernardino County