

California Regional Water Quality Control Board
Santa Ana Region

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MCAS EL TORO
SSIC # 5090.3

08/09/85

ORDER NO. 85-111

NPDES No. CA 0106593

Waste Discharge Requirements
for
United States Marine Corps
El Toro Air Station
Orange County

The California Regional Water Quality Control Board, Santa Ana Region (hereinafter Board), finds that:

1. On May 3, 1985, the United States Marine Corps (hereinafter discharger) submitted completed application No. CA 0106593 for the issuance of a renewed permit to discharge under the National Pollutant Discharge Elimination System. The discharge of storm-water runoff from this facility is currently regulated by waste discharge requirements contained in Order No. 80-86, which expired June 1, 1985.
2. The discharger currently operates the Marine Corps Air Station, El Toro, in an unincorporated area of central Orange County. This 5000-acre facility is the major center for marine aviation on the west coast. The facility is located north of the intersection of the Santa Ana Freeway (Interstate 5) and the San Diego Freeway (Interstate 405).
3. The discharger operates and maintains approximately 175 aircraft at this facility. The aircraft-support functions and the vehicle and facility maintenance operations require the storage and use of large volumes of fuels (jet, gasoline, diesel), solvents, oils, pesticides, and other hazardous chemicals. These operations generate large volumes of hazardous wastes which are handled and stockpiled by the discharger prior to disposal.
4. Storm-induced runoff from runway aprons and other station areas is currently discharged at Discharge Serial Nos. 001 and 002. This runoff originates from all runways and nearly all vehicle and aircraft maintenance, washrack, and fueling areas within the facility. Storm-induced runoff from these areas has a high potential for contamination by unauthorized waste discharges, hazardous spills, or the accumulation of hazardous materials and wastes. A description of these discharge points is as follows:

Discharge Serial No. 001: Latitude 33°39'30.6"N, Longitude 117°44'0.8"W, to Agua Chino Wash, which is tributary to San Diego Creek.

Discharge Serial No. 002: Latitude 33°40'2.1"N, Longitude 117°44'36.7"W, to Bee Canyon Wash, which is tributary to San Diego Creek.

5. Discharge Serial Nos. 001 and 002 include diversion structures which direct low or dry-weather flows to the sanitary sewer. Any storm-induced, high flow will overflow the diversion weir and create a discharge to the surface channel. The aircraft and vehicle washracks also include diversion structures which direct all wash water (detergent and degreasers) to the sanitary sewer during washing operations.
6. Dry-weather flows and storm-induced runoff are currently discharged from the northwest section of the facility to Rifle Range Road Ditch. These discharges are currently unregulated. These discharges originate mainly from administrative, housing, and recreational areas. Although these discharges cause fewer water quality concerns, they include runoff from some vehicle maintenance, car wash, and fuel storage areas. Also, dry-weather discharges (mainly landscape-irrigation runoff) from these areas occur regularly. A description of these discharge points is as follows:

Discharge Serial No. 003: Latitude 33°40'22"N, Longitude 117°44'37"W, to Rifle Range Road Ditch, a lined tributary of San Diego Creek.
Discharge Serial No. 004: Latitude 33°41'06"N, Longitude 117°44'36"W, at the corner of Trabuco Road and Rifle Range Road Ditch to Rifle Range Road Ditch, a tributary of San Diego Creek.
7. The Board adopted a Water Quality Control Plan on May 13, 1983. The Plan contains beneficial uses and water quality objectives for waters in the Santa Ana Region.
8. The requirements contained in this order are necessary to implement the Water Quality Control Plan.
9. Discharge Serial Nos. 001, 002, 003, and 004 overlie the Irvine Forebay Ground Water Subbasin, the beneficial uses of which include:
 - a. Municipal and domestic supply,
 - b. Agricultural supply,
 - c. Industrial process supply, and
 - d. Industrial service supply.
10. Discharges from the facility are tributary to San Diego Creek, the beneficial uses of which include:
 - a. Ground water recharge,
 - b. Non-contact water recreation,
 - c. Warm freshwater habitat, and
 - d. Wildlife habitat.
11. The issuance of these waste discharge requirements is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 21000 et seq.) in accordance with the California Water Code, Section 13389.

12. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
13. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that the discharger, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder and the provisions of the Federal Water Pollution Control Act and regulations and guidelines adopted thereunder, shall comply with the following:

A. Discharge Specifications

1. The discharge of wastes at Discharge Serial Nos. 001, 002, and 004 shall not increase the constituent concentrations found in the respective channels entering the air station in excess of the following limits, nor shall the discharge of wastes at Discharge Serial No. 003 contain constituent concentrations in excess of the following limits:

<u>Constituent</u>	<u>Maximum Daily Concentration Limit</u>	
Total Dissolved Solids	250	mg/l
Suspended Solids	45	"
Oil and Grease	15	"
Phenolic Compounds	0.04	"
Total Petroleum Hydrocarbons	2.0	"
Methylene Blue Activated Substances (MBAS)	0.5	"

2. The pH of the discharge shall be at all times within the range of 6.5 and 8.5 pH units.
3. There shall be no visible oil and grease in any discharge.
4. The discharge of any substances in concentrations toxic to human, animal, plant, or aquatic life is prohibited.
5. The discharge of any radiological, chemical, or biological warfare agent or high level radioactive waste is prohibited.
6. The discharge of wastes at Discharge Serial Nos. 001 and 002 during dry-weather periods without prior authorization from the Executive Officer of this Board is prohibited.
7. The discharge of wastes other than landscape irrigation runoff at Discharge Serial Nos. 003 and 004 during dry-weather periods without prior authorization from the Executive Officer of this Board is prohibited.

B. Receiving Water Limitations

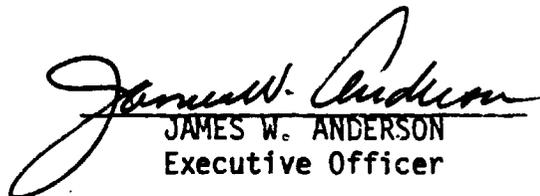
1. The discharge of waste shall not alter the color of the receiving waters.
2. The discharge of waste shall not cause foam in the receiving waters.
3. The discharge of waste shall not cause the receiving waters to have an objectionable odor.
4. The discharge of waste shall not cause the presence of radionuclides in concentrations that exceed the maximum permissible concentrations for radionuclides in water as set forth in Chapter 5, Title 17, of the California Administrative Code.
5. Neither the treatment nor the disposal of wastes shall cause a nuisance or pollution, as defined in the California Water Code.
6. The discharge of waste shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Regional Board or the State Water Resources Control Board as required by the Federal Water Pollution Control Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Federal Water Pollution Control Act, or amendments thereto, the Board will revise and modify this order in accordance with such more stringent standards.

C. Provisions

1. The discharger shall comply with Monitoring and Reporting Program No. 85-111 as ordered by the Executive Officer.
2. The discharger shall comply with the attached "Standard Provisions and Reporting Requirements", with the exception of the following items: A.4., 6, 11, and 18; C.1., 7, 8, and 9; D.2. and 6; E.1. through 5, and 7.
3. The discharger shall file with the Board by November 15, 1985, a technical report in accordance with General Reporting Requirements C.3. The report shall also contain an implementation plan to assure that all hazardous materials/waste storage areas are provided with adequate secondary containment.
4. Compliance with Discharge Specification A.1. for Discharge Serial Nos. 001, 002, and 004 shall be based on the difference between the respective influent and discharge constituent concentrations. If a discharge has no corresponding influent flow, then compliance shall be based only on the constituent concentrations found in the discharge.

5. Compliance with Discharge Specification A.1. for Discharge Serial No. 003 shall be based only on the constituent concentrations found in the discharges.
6. This order expires on August 1, 1990, and the discharger must file a report of waste discharge in accordance with Title 23, California Administrative Code, not later than 180 days in advance of such date as application for issuance of new waste discharge requirements.
7. This order shall serve as a National Pollutant Discharge Elimination System permit pursuant to Section 402 of the Federal Water Pollution Control Act, or amendments thereto, and shall become effective 10 days after date of its adoption provided the Regional Administrator of the Environmental Protection Agency has no objection. If the Regional Administrator objects to its issuance, the permit shall not become effective until such objection is withdrawn.

I, James W. Anderson, 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, Santa Ana Region, on August 9, 1985.


JAMES W. ANDERSON
Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGION

August 9, 1985

STANDARD PROVISIONS AND REPORTING REQUIREMENTS

A. General Provisions

1. The requirements prescribed herein do not authorize the commission of any act causing injury to the property of another, nor protect the discharger from his liabilities under federal, state, or local laws, nor guarantee the discharger a capacity right in the receiving waters.
2. The discharger shall permit the Regional Board and the Environmental Protection Agency:
 - a. Entry upon premises in which an effluent source is located or in which any required records are kept;
 - b. Access to copy any records required to be kept under terms and conditions of this order;
 - c. Inspection of monitoring equipment or records; and
 - d. Sampling of any discharge.
3. All discharges authorized by this order shall be consistent with the terms and conditions of this order. The discharge of any pollutant more frequently than or at a level in excess of that identified and authorized by this order shall constitute a violation of the terms and conditions of this order.
4. The discharger's wastewater treatment plant shall be supervised and operated by persons possessing certificates of appropriate grade pursuant to Chapter 3, Subchapter 14, Title 23, California Administrative Code.
5. The discharger shall, at all times, properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the discharger to achieve compliance with the permit limits. Proper operation and maintenance includes effective performance, adequate funding, adequate staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures.

The discharger shall keep in a state of readiness all systems necessary, at any time, to achieve compliance with the waste discharge requirements. All systems, both those in service and reserve, shall be inspected and maintained on a regular basis. All reserve units shall be regularly tested by placing into service. Records shall be kept of the tests and made available to the regulatory agencies.
6. Collected screenings, sludges, and other solids removed by treatment processes shall be disposed of in the manner approved by the Executive Officer of the Regional Board.
7. After notice and opportunity for a hearing, this order may be terminated or modified for cause, including, but not limited to:

- a. Violation of any term or condition contained in this order;
 - b. Obtaining this order by misrepresentation, or failure to disclose fully all relevant facts;
 - c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
8. If a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Federal Water Pollution Control Act, or amendments thereto, for a toxic pollutant which is present in the discharge authorized herein and such standard or prohibition is more stringent than any limitation upon such pollutant in this order, the Board will revise or modify this order in accordance with such toxic effluent standard or prohibition and so notify the discharger.
 9. If more stringent applicable water quality standards are approved pursuant to Section 303 of the Federal Water Pollution Control Act, or amendments thereto, the board will revise and modify this order in accordance with such more stringent standards.
 10. The provisions of this order are severable, and if any provision of this order, or the application of any provision of this order, or the application of any provisions of this order to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this order shall not be affected thereby.
 11. Safeguard to electric power failure:
 - a. The discharger shall maintain in good working order a sufficient alternate power source for operating the wastewater treatment and disposal facilities. All equipment shall be located to minimize failure due to moisture, liquid spray, flooding, and other physical phenomena. The alternate power source shall be designed to permit inspection and maintenance and shall have provision for periodic testing.
 - b. If such alternate power source is not in existence, the discharger shall halt, reduce, or otherwise control all discharges upon the reduction, loss, or failure of the primary source of power.

12. Any diversion from or bypass of facilities necessary to maintain compliance with the terms and conditions of this order is prohibited, except (a) where unavoidable to prevent loss of life or severe property damage, or (b) where excessive storm drainage or runoff would damage any facilities necessary for compliance with the effluent limitations and prohibitions of this order. The discharger shall promptly notify the Board and the Regional Administrator of EPA within 24 hours of each such diversion or bypass.
13. Except for data determined to be confidential under Section 308 of the Federal Water Pollution Control Act, all reports prepared in accordance with terms of this order shall be available for public inspection at the offices of the Regional Water Quality Control Board and the Regional Administrator of EPA. As required by the Federal Water Pollution Control Act, effluent data shall not be considered confidential. Knowingly making any false statements on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Act and Section 13387 of the California Water Code.
14. The discharger shall take all reasonable steps to minimize any adverse impact to receiving waters resulting from noncompliance with any effluent limitations specified in this order, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.
15. In the event of any change in control or ownership of land or waste discharge facility presently owned or controlled by the discharger, the discharger shall notify the succeeding owner or operator of the existence of this order by letter, a copy of which shall be forwarded to this Board.
16. The discharger shall ensure compliance with any existing or future pretreatment standard promulgated by EPA under Section 307 of the Federal Water Pollution Control Act or amendments thereto for any discharge to the municipal system.
17. The discharge of any radiological, chemical, or biological warfare agent or high level radiological waste is prohibited.
18. The discharger shall require each industrial user to submit periodic notice (over intervals not to exceed nine months) of progress toward compliance with applicable toxic and pretreatment standards developed pursuant to the Federal Water Pollution Control Act or amendments thereto. The discharger shall forward a copy of such notice to the Board and the Regional Administrator.

B. Provisions for Monitoring

1. Water quality analyses shall be performed in accordance with the most recent edition of "Environmental Protection Agency Regulations on Test Procedures for the Analysis of Pollutants" promulgated by EPA (40 CFR 136). In addition, the Board and/or EPA, at their discretion, may specify test methods which are more sensitive than those specified in 40 CFR 136.

2. Chemical, bacteriological, and bioassay analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health Services or EPA.
3. The laboratory which performs the sample analyses must be identified in all monitoring reports submitted to the Regional Board Executive Officer and the Regional Administrator (EPA).
4. The discharger shall have, and implement, an acceptable written quality assurance (QA) plan for laboratory analyses. An annual report shall be submitted by January 30 of each year which summarizes the QA activities for the previous year. Duplicate chemical analyses must be conducted on a minimum of ten percent (10%) of the samples, or at least one sample per month, whichever is greater. A similar frequency shall be maintained for analyzing spiked samples.

When requested by the Board or EPA, the discharger will participate in the NPDES discharge monitoring report QA performance study. The permittee must have a success rate equal to or greater than 80%.

5. Sample containers, preservation, and hold times shall conform with those in Table III, pg. 75050-75052 of the December 18, 1979, Federal Register.
6. Influent samples shall be taken at each point of inflow to the wastewater treatment plant, upstream of any in-plant return flows, and shall be representative of the influent to the treatment plant.
7. Effluent samples shall be taken downstream of the last addition of waste to the treatment or discharge works where a representative sample may be obtained prior to mixing with the receiving waters.
8. All monitoring instruments and devices used by the discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy.
9. The flow measurement system shall be calibrated at least once per year or more frequently, to ensure continued accuracy.

C. General Reporting Requirements

1. The discharger shall submit to the Board on or before each compliance report date, a report detailing his compliance or noncompliance with the specific schedule date and task.

If noncompliance is being reported, the reasons for such noncompliance shall be stated plus an estimate of the date when the discharger will be in compliance. The discharger shall notify the Board by letter when he has returned to compliance with the time schedule.

2. In the event the discharger does not comply or will be unable to comply with any prohibition, daily maximum effluent limitation, or receiving water limitation of this order for any reason, the discharger shall notify the Executive Officer by telephone (714) 684-9330 as soon as he or his agents have knowledge of such non-compliance, and shall confirm this notification in writing within five (5) days. The written notification shall state the nature, time, and cause of noncompliance and shall describe the measures being taken to prevent recurrences.
3. The discharger shall file with the Board within ninety (90) days after the effective date of this order a technical report on his preventive (failsafe) and contingency (cleanup) plans for controlling accidental discharges and for minimizing the effect of such events. The technical report should:
 - a. Identify the possible sources of accidental loss, untreated waste bypass, and contaminated drainage. Loading and storage areas, power outage, waste treatment outage, and failure of process equipment, tanks, and pipes should be considered.
 - b. Evaluate the effectiveness of present facilities and procedures and state when they became operational.

Describe facilities and procedures needed for effective preventive and contingency plans.
 - c. Predict the effectiveness of the proposed facilities and procedures and provide an implementation schedule containing interim and final dates when they will be constructed, implemented, or operational. (Reference: Sections 13267(b) and 13268, California Water Code.)

The Board, after review of the technical report, may establish conditions which it deems necessary to control accidental discharges and to minimize the effects of such events. Such conditions may be incorporated as part of this order, upon notice to the discharger.

4. Discharge monitoring data shall be submitted to the extent possible on preprinted Discharge Monitoring Report forms to be supplied by the Board and EPA. Other specific reporting formats which may include magnetic tape, punched cards or direct computer entry may be prescribed at a later date. Unless otherwise specified, discharge flows shall be reported in terms of the 30-day average and the daily maximum discharge flows.

The results of all monitoring required by this order shall be reported to the Board, and shall be submitted in such a format as to allow direct comparison with the limitations and requirements of this order.

5. The discharger shall file with the Board a report of waste discharge at least 120 days before making any material change or proposed change in the character, location, or volume of the discharge.
6. The results of any analysis of samples taken more frequently than required at the locations specified in the Monitoring and Reporting Program shall be reported to the Board.
7. The discharger shall file a written report with the Board within ninety (90) days after the average dry-weather waste flow for any month equals or exceeds 75 percent of the design capacity of his waste treatment and/or disposal facilities. The discharger's senior administrative officer shall sign a letter which transmits that report and certifies that the policy-making body is adequately informed about it. The report shall include:
 - a. Average daily flow for the month, the date on which the instantaneous peak flow occurred, the rate of that peak flow, and the total flow for the day.
 - b. The discharger's best estimate of when the average daily dry-weather flow rate will equal or exceed the design capacity of his facilities.
 - c. The discharger's intended schedule for studies, design, and other steps needed to provide additional capacity for his waste treatment and/or disposal facilities before the waste flow rate equals the capacity of present units. (Reference: Sections 13260, 13267(b), and 13268, California Water Code.)
8. The discharger shall notify the Board not later than 180 days in advance of implementation of any plans to alter production capacity of the product line of the manufacturing, producing, or processing facility by more than 10 percent. Such notification shall include estimates of proposed production rate, the type of process, and projected effects on effluent quality. Notification shall include submittal of a new report of waste discharge and appropriate filing fee.

9. The discharger shall notify the Board of (a) new introduction into such works of pollutants from a source which would be a new source, as defined in Section 306 of the Federal Water Pollution Control Act, or amendments thereto, if such source were discharging pollutants to the waters of the United States; (b) new introductions of pollutants into such works from a source which would be subject to Section 301 of the Federal Water Pollution Control Act, or amendments thereto, if it were discharging such pollutants to the waters of the United States; (c) a substantial change in the volume or character of pollutants being introduced into such works by a source introducing pollutants into such works at the time the waste discharge requirements were adopted. Notice shall include a description of the quantity and quality of pollutants and the impact of such change on the quantity and quality of effluent from such publicly owned treatment works. A substantial change in volume is considered an increase of 10 percent in the mean dry-weather flow rate. The discharger shall forward a copy of such notice directly to the Regional Administrator.

D. Reporting Requirements for Monitoring

1. For every item of monitoring data where the requirements are not met, the discharger shall submit a statement of the actions undertaken or proposed which will bring the discharge into full compliance with requirements at the earliest time, and shall submit such information, in writing, within two weeks of becoming aware of noncompliance.
2. By January 30 of each year, the discharger shall submit an annual report to the Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. In addition, the discharger shall discuss the compliance record and the corrective actions taken or planned which may be needed to bring the discharge into full compliance with the waste discharge requirements.
3. The discharger shall maintain records of all sampling and analytical results, including strip charts; the date, exact place, and time of sampling; the analyst's name; analytical techniques used; and results of all analyses. Such records shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Board.
4. The discharger shall file with the Board technical reports on self-monitoring work performed according to the detailed specifications contained in any Monitoring and Reporting Program or as directed by the Executive Officer.

5. All reports shall be signed by:
 - a. In the case of corporations, by a principal executive officer at least of the level of vice president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates;
 - b. In the case of a partnership, by a general partner;
 - c. In the case of a sole proprietorship, by the proprietor;
 - d. In the case of a municipal, state, or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.
6. The discharger shall submit to the Board, by January 30 of each year, an annual summary of the quantities of all chemicals listed by both trade and chemical names which are used for cooling and/or boiler water treatment and which are discharged.
7. The discharger shall mail a copy of each monitoring report on the appropriate form to be supplied by the Board and any other reports required by this order to:
 - a. California Regional Water Quality Control Board
 Santa Ana Region
 6809 Indiana Avenue, Suite 200
 Riverside, CA 92506-4298
 - b. A copy of such monitoring report for those discharges designated as a major discharge shall be mailed to:

 Regional Administrator
 Environmental Protection Agency
 Region 9, Attention: C-A-CMR (W-3-1)
 215 Fremont Street
 San Francisco, CA 94105

E. Definitions

1. The daily mass emission rate is obtained from the following calculation for any calendar day:

$$\text{Daily mass emission rate (lbs/day)} = \frac{8.34}{N} \sum_{i=1}^N Q_i C_i$$

$$\text{Daily mass emission rate (kg/day)} = \frac{3.78}{N} \sum_{i=1}^N Q_i C_i$$

in which N is the number of samples analyzed in any calendar day. Q_i and C_i are the flow rate (MGD) and the constituent concentration (mg/l) respectively, which are associated with each of the N grab samples which may be taken in any calendar day.

If a composite sample is taken, C_i is the concentration measured in the composite sample and Q_i is the average flow rate occurring during the period over which samples are composited.

The daily concentration of all constituents shall be determined from the flow-weighted average of the same constituents in the combined waste streams as follows:

$$\text{Daily concentration} = \frac{1}{Q_t} \sum_{i=1}^N Q_i C_i$$

in which N is the number of component waste streams. Q_i and C_i are the flow rate (MGD) and the constituent concentration (mg/l), respectively, which are associated with each of the N waste streams. Q_t is the total flow rate of the combined waste streams.

2. The "30-day, or 7-day, average" mass emission rate is the total mass emission rates by weight during a 30, or 7, consecutive calendar day period, respectively, divided by the number of days in the period that the facility was discharging. Where less than daily sampling is required by this permit, the 30-day, or 7-day, average discharge shall be determined by the summation of all the measured mass emission rates by weight divided by the number of days during the 30, or 7, consecutive calendar day period when the measurements were made.

For other than 7-day or 30-day periods, compliance shall be based upon the average of all measurements made during the specified period.

3. The "daily maximum" discharge means the total discharge by weight during any calendar day.
4. The "30-day, or 7-day, average" concentration, other than for fecal or total coliform bacteria, is the arithmetic mean of measurements made during a 30, or 7, consecutive calendar day period, respectively. The "30-day, or 7-day, average" concentration for fecal or total coliform bacteria is the geometric mean of measurements made during a 30, or 7, consecutive calendar day period, respectively. The geometric mean is the n th root of the product of n numbers.
5. The "maximum daily" concentration is defined as the measurement made on any single grab sample or composite sample.
6. A "grab" sample is defined as any individual sample collected in less than 15 minutes.
7. A composite sample is defined as a combination of no fewer than eight individual samples obtained over the specified sampling period. The volume of each individual sample shall be proportional to the discharge flow rate at the time of sampling. The compositing period shall equal the specific sampling period, or 24 hours, if no period is specified.

8. An "industry" is defined as any facility identified in the Standard Industrial Classification Manual, 1972, Office of Management and Budget, as amended and supplemented, under the following divisions:
 - a. Division A - Agriculture, Forestry, and Fishing;
 - b. Division B - Mining;
 - c. Division D - Manufacturing;
 - d. Division I - Services.

A facility in the divisions listed may be excluded if it is determined by the Board that it introduces primarily domestic wastes or wastes from sanitary conveniences.

9. "Prohibited wastes" are any of the following wastes which shall not be introduced into the treatment works:
 - a. Wastes which create a fire or explosion hazard in the treatment works;
 - b. Wastes which will cause corrosive structural damage to treatment works, but, in no case, wastes with a pH lower than 5.0 unless the works are designed to accommodate such wastes;
 - c. Solid or viscous wastes in amounts which would cause obstruction to the flow in sewers or other interference with the proper operation of the treatment works; or
 - d. Wastes at a flow rate and/or pollutant discharge rate which is excessive over relatively short time periods so that there is a treatment process upset and subsequent loss of treatment efficiency.

California Regional Water Quality Control Board
Santa Ana Region

Monitoring and Reporting Program No. 85-111
NPDES No. CA 0106593
for
United States Marine Corps
El Toro Air Station
Orange County

Influent Monitoring

Appropriate upstream sampling locations shall be established for Agua Chinon Wash, Bee Canyon Wash, and Rifle Range Road Ditch at their respective points of inflow to the air station where representative samples of those influents can be obtained. The following shall constitute the influent monitoring program:

<u>Constituents</u>	<u>Units</u>	<u>Minimum Frequency of Analysis at Inflow Locations A and B¹</u>	<u>Minimum Frequency of Analysis at Inflow Location C¹</u>
Total Dissolved Solids	mg/l	Daily	Monthly
Suspended Solids	"	"	"
Oil and Grease	"	"	"
Phenolic Compounds	"	"	"
Total Petroleum Hydrocarbons	"	"	"
Methylene Blue Activated Substances (MBAS)	"	"	"
Flow	gpd	"	"
pH	pH units	"	"
Electrical Conductivity	micromhos/cm	"	"

Daily and monthly influent samples shall be collected from inflow locations A, B, and C only during periods of discharge at their corresponding discharge locations.

Effluent Monitoring

Appropriate sampling locations shall be established for each point of discharge and shall be located where representative samples of the discharge can be obtained.

At least once per day, each discharge point shall be inspected to determine if any discharges are occurring.

The following shall constitute the effluent monitoring program:

¹A = Agua Chinon Wash
B = Bee Canyon Wash
C = Rifle Range Road Ditch

Constituents	Units	Minimum Frequency of Analysis at Discharge Serial Nos.		
		001 & 002	003	004
Total Dissolved Solids	mg/l	Daily	Weekly	Monthly
Suspended Solids	"	"	"	"
Oil and Grease	"	"	"	"
Phenolic Compounds	"	"	"	"
Total Petroleum Hydro- carbons	"	"	"	"
Methylene Blue Activated Substances (MBAS)	"	"	"	"
Flow	gpd	"	"	"
pH	pH units	"	"	"
Electrical Conductivity	micromhos/cm	"	"	"
EPA Priority Pollutants (list attached)	µg/l	Quarterly	Semi-Annually	Semi-Annually
Toxicity Bioassay ¹	percent survival	Annually		

During the first 60 minutes of any discharge at Discharge Serial Nos. 001 and 002, a grab sample of each discharge and each respective channel influent (if any) shall be collected. Thereafter, both discharge and influent samples shall be collected at 24-hour intervals until the discharges cease.

During the first 60 minutes of any discharge at Discharge Serial No. 003, a grab sample of the discharge shall be collected. Thereafter, discharge samples shall be collected weekly until the discharge ceases.

During the first 60 minutes of any discharge at Discharge Serial No. 004, a grab sample of the discharge and the influent (if any) shall be collected. Thereafter, discharge and influent samples shall be collected monthly until the discharge ceases.

Quarterly samples of the discharges (001 and 002) shall be collected from the first storm-induced flow occurring after January 1, April 1, July 1, and October 1.

The semi-annual samples of the discharges (003 and 004) shall be collected from the first storm-induced flow occurring after April 1 and October 1.

Annual samples for discharges 001 and 002 shall be collected from the first storm-induced flow occurring after October 1.

Whenever any discharge is occurring, the flow shall be estimated and recorded in a permanent log. The discharger shall include an explanation for any dry-weather discharge.

¹Toxicity shall be determined in accordance with the State Water Resources Control Board's "Guidelines for Performing Acute Toxicity Fish Bioassay in Municipal and Industrial Waste Waters" using the fathead minnow, Pimphales promelas at 20^o-23^o for 96 hours.

Reporting

Monitoring reports shall be submitted by the 10th day of each month and shall include:

1. A copy of the results of all chemical analyses,
2. Estimated daily flows,
3. Duration of all discharges,
4. An explanation for any dry-weather discharge, and
5. A copy of all manifests for any hazardous waste transported from the air station.

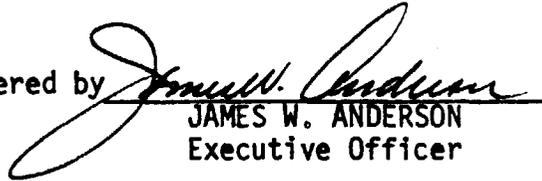
If no discharge occurs during the monitoring period, a report to that effect shall be submitted in lieu of a monitoring report.

The discharger shall report any non-storm-induced discharge at Discharge Serial Nos. 001 or 002 to the Board within 24 hours of its occurrence.

All reports shall be arranged in a tabular format to clearly show compliance or noncompliance with each discharge limitation for each discharge point.

All reports shall be signed by a responsible officer or duly authorized agent of the discharger and shall be submitted under penalty of perjury.

Ordered by


JAMES W. ANDERSON
Executive Officer

August 9, 1985

PRIORITY POLLUTANTS

Metals

Antimony
Arsenic
Beryllium
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

Miscellaneous

Cyanide
Asbestos*

*Not required unless specifically requested.

Pesticides

Method 625
Aldrin
Chlordane
Dieldrin
4, 4' - DDT
4, 4' - DDE
4, 4' - DDD
Alpha Endosulfan
Beta Endosulfan
Endosulfan Sulfate
Endrin
Endrin Aldehyde
Heptachlor
Heptachlor Epoxide
Alpha BHC
Beta BHC
Gamma BHC
Delta BHC
Toxaphene
PCB 1016
PCB 1221
PCB 1232
PCB 1242
PCB 1248
PCB 1254
PCB 1260

Base/Neutral Extractibles

Method 625
Acenaphthene
Benzidine
1, 2, 4 - Trichlorobenzene
Hexachlorobenzene
Hexachloroethane
Bis (2-Chloroethyl) Ether
2 - Chloronaphthalene
1, 2 - Dichlorobenzene
1, 3 - Dichlorobenzene
1, 4 - Dichlorobenzene
3, 3' - Dichlorobenzidine
2, 4 - Dinitrotoluene
2, 6 - Dinitrotoluene
1, 2 - Diphenylhydrazine
Fluoranthene
4 - Chlorophenyl Phenyl Ether
4 - Bromophenyl Phenyl Ether
Bis (2 - Chloroisopropyl) Ether
Bis (2 - Chloroethoxy) Methane
Hexachlorobutadiene
Hexachlorocyclopentadiene
Isophorone
Naphthalene
Nitrobenzene
N - Nitrosodimethylamine
N - Nitrosodi - N - Propylamine
N - Nitrosodiphenylamine
Bis (2 - Ethylhexyl) Phthalate
Butyl Benzyl Phthalate
Di - N - Butyl Phthalate
Di - N - Octyl Phthalate
Diethyl Phthalate
Dimethyl Phthalate
Benzo (A) Anthracene
Benzo (A) Pyrene
Benzo (B) Fluoranthene
Benzo (K) Fluoranthene
Chrysene
Acenaphthylene
Anthracene
1, 12 - Benzoperylene
Fluorene
Phenanthrene
1, 2, 5, 6 - Dibenzanthracene
Indeno (1, 2, 3 - CD) Pyrene
Pyrene
TCDD

Acid Extractibles

Method 625
2, 4, 6 - Trichlorophenol
P - Chloro - M - Cresol
2 - Chlorophenol
2, 4 - Dichlorophenol
2, 4 - Dimethylphenol
2 - Nitrophenol
4 - Nitrophenol
2, 4 - Dinitrophenol
4, 6 - Dinitro - O - Cresol
Pentachlorophenol
Phenol

Volatile Organics

Method 624
Acrolein
Acrylonitrile
Benzene
Carbon Tetrachloride
Chlorobenzene
1, 2 - Dichloroethane
1, 1, 1 - Trichloroethane
1, 1 - Dichloroethane
1, 1, 2 - Trichloroethane
1, 1, 2, 2 - Tetrachloroethane
Chloroethane
Chloroform
1, 1 - Dichloroethylene
1, 2 - Trans Dichloroethylene
1, 2 - Dichloropropane
1, 2 - Dichloropropylene
Ethylbenzene
Methylene Chloride
Methyl Chloride
Methyl Bromide
Bromoform
Bromodichloromethane
Trichlorofluoromethane
Dichlorodifluoromethane
Dibromochloromethane
Tetrachloroethylene
Toluene
Trichloroethylene
Vinyl Chloride
Bis (chloromethyl) Ether
2 - Chloroethyl Vinyl Ether