

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER No. 96-055

REISSUANCE OF WASTE DISCHARGE REQUIREMENTS FOR:
TIDEWATER SAND AND GRAVEL, INC., MARTINEZ SAND RECLAMATION
FACILITY, CONTRA COSTA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter the Board) finds that:

1. On October 18, 1985 this Board adopted Order No. 85-111 prescribing waste discharge requirements for dredging and placement of 1.3 million cubic yards of dredged material at various disposal sites in Contra Costa and Solano Counties, for the dischargers cited in the Order. The requirements covered the Stockton to San Francisco Bay Shipping Channel dredging between New York Slough and Avon, and the disposal sites identified in Order No. 85-111 at Stark Property, Simmons Island, S-20G Site, and S-24 Site (Crowley Site).
2. By letter dated October 6, 1988 Tidewater Sand & Gravel, Inc. (hereinafter Discharger) requested that Order No. 85-111 be amended to include the Discharger in the title of the permit so as to allow the Discharger to place dredged material on the Crowley Site for sand reclamation purposes, pursuant to conditions of Order No. 85-111. The Discharger proposed to hydraulically dredge up to 250,000 cubic yards (CY) of sand per year from nearby areas, and to transfer dredged material by barge to a mooring barge for hydraulic transfer to the Crowley Site land disposal area. On November 20, 1991 this Board adopted Order No. 91-161 amending Order 85-111 to include Tidewater Sand and Gravel Company in the Waste Discharge Requirements.
3. On March 15, 1995, this Board adopted Order No. 95-059 rescinding a group of Orders, including 85-111 and 91-161. An oversight led to the mistaken rescission of Order No. 91-161, which should have been amended to include only the Discharger in the title (excluding six other dischargers). This Order rectifies the mistake and gives the Discharger permission to continue operating its sand reclamation facility. Since ongoing self-monitoring reports submitted during the intervening months have shown no discharge violations and the facility has been operating in a consistently acceptable manner, this Board is confident that no harm to water quality has occurred.
4. The Discharger has since acquired the site and will continue to hydraulically dredge up to 250,000 CY of material annually from nearby sites under a permit (Section 10) issued by the U.S. Army Corps of Engineers and under General Waste Discharge Requirements, Order No. 95-177, for barge effluent from sand dredging operations within San Francisco Bay.

IT IS HEREBY ORDERED that Tidewater Sand and Gravel, Inc., in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. Discharge Prohibitions

1. The direct discharge of wastes (including dredged sediments) to surface waters or surface water drainage courses is prohibited.
2. The discharge of wastewater to the adjacent marsh shall not cause bottom sediment deposits.
3. The erosion of sand into the adjacent marsh and waters of the State is prohibited.
4. The dredge and disposal shall not cause a nuisance as defined in Section 13050(m) of the California Water Code.

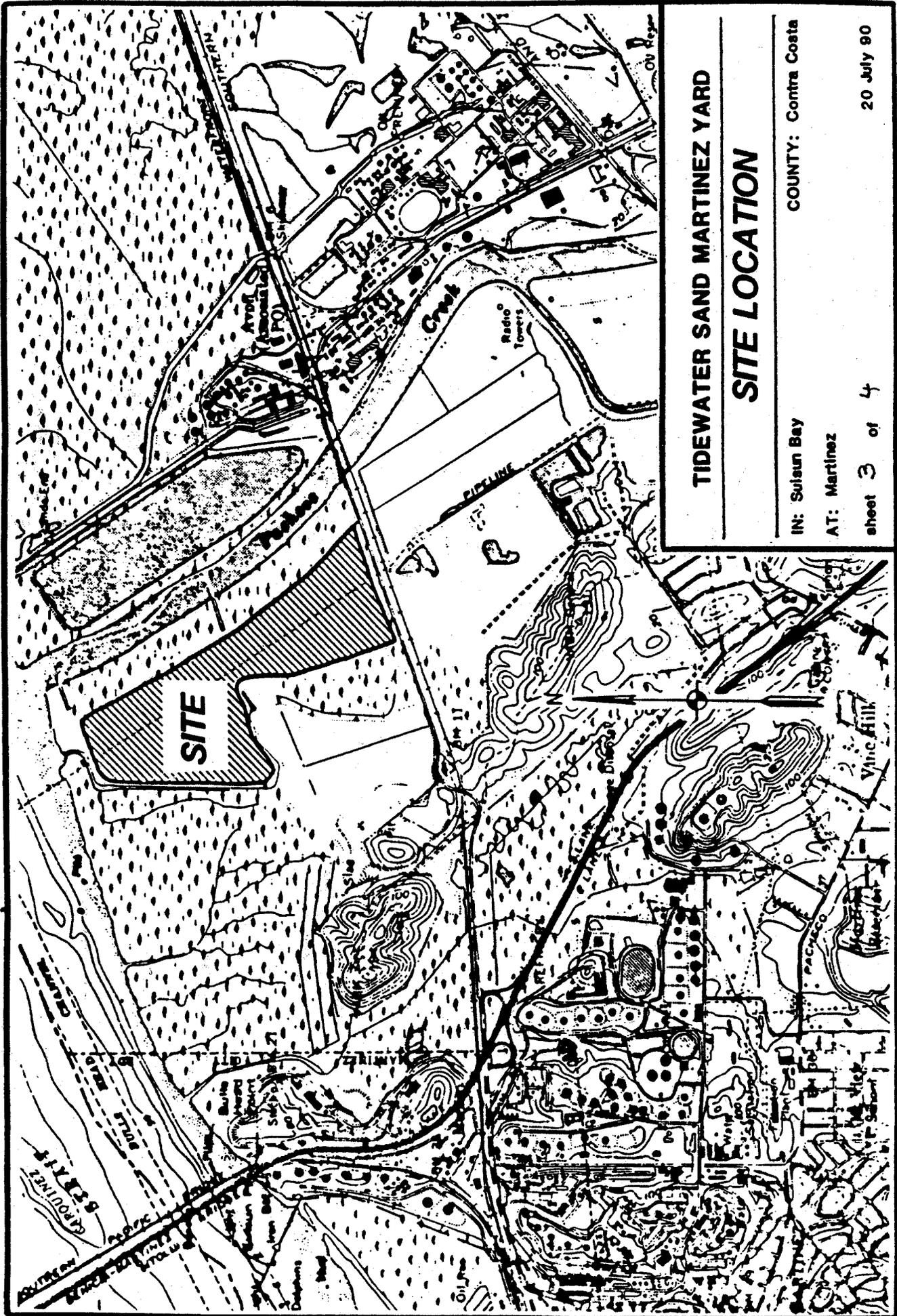
B. Effluent Limitations

1. Representative samples of the waste discharge shall not contain constituents in excess of (below for dissolved oxygen) the following limits:
 - (i) pH: 6.5 - 8.5
 - (ii) Settleable matter: 1.0 ml/hr
 - (iii) Dissolved oxygen: 5.0 mg/l (minimum)

C. Receiving Water Limitations

1. The discharge of waste shall not cause the following conditions to exist in waters of the state at any place:
 - a. Floating, suspended or deposited macroscopic particulate matter or foam;
 - b. Bottom deposits or aquatic growths;
 - c. Alteration of turbidity or apparent color beyond present natural background levels;
 - d. Visible floating, suspended, or deposited oil or other products of petroleum origin;
 - e. Toxic or other deleterious substances to be present in concentrations or quantities which may cause deleterious effects on aquatic biota, wildlife or waterfowl, or which render any of these unfit for human

3. The Discharger shall file with the Regional Board monthly self-monitoring reports performed according to the attached Self-Monitoring Program issued by the Executive Officer or any subsequent revision.
4. The Discharger shall install any additional leachate monitoring devices required to fulfill the terms of any Self-Monitoring Program issued to the Discharger in order that the Board may evaluate compliance with the conditions of this order.
5. The discharge of any hazardous, designated or non-hazardous waste as defined in Title 23, Division 3, Chapter 15 of the California Administrative Code, to the disposal site is prohibited.
6. The Discharger shall remove and relocate any wastes which are discharged at this site in violation of these requirements.
7. The Discharger shall file with this Board a report of any material change or proposed change in the character, location, or quantity of this waste discharge. For the purpose of these requirements, this includes any proposed change in the boundaries of the disposal areas or the ownership of the site.
8. The Discharger shall maintain a copy of this Order at the site so as to be available at all times to site operating personnel.
9. The property owner and site operator is considered to have full responsibility for correcting any and all problems which arise in the event of a failure resulting in an unauthorized release of waste or wastewater.
10. The Discharger shall maintain all devices or design features installed in accordance with this Order such that they function without interruption for the life of the operation.
11. The Discharger shall permit the Regional Board or its authorized representative, upon presentation of identification:
 - a. Entry onto the premises on which wastes are located or in which records are kept.
 - b. Access to copy any records required to be kept under the terms and conditions of this Order.
 - c. Inspection of any treatment equipment, monitoring equipment or monitoring method required by this Order.
 - d. Sampling of any discharge or surface water covered by this Order.



TIDEWATER SAND MARTINEZ YARD

SITE LOCATION

IN: Suisun Bay

COUNTY: Contra Costa

AT: Martinez

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20 July 90

CALIFORNIA REGIONAL WATER QUALITY CONTROL PLAN
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM

FOR:

TIDEWATER SAND AND GRAVEL, INC.,
MARTINEZ SAND RECLAMATION FACILITY,
CONTRA COSTA COUNTY

Part A

A. BASIS AND PURPOSE

Reporting responsibilities of waste discharges are specified in Sections 13225(a), 13267(b), 13268, 13383, 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16.

The principle purposes of a monitoring program, also referred to as a self-monitoring program, are: 1) to document compliance with Waste Discharge Requirements and prohibitions established by this Regional Board, 2) to facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge, 3) to develop or assist in the development of effluent or other limitations, discharge prohibitions, national standards of performance, pretreatment and toxicity standards, and other standards, and 4) prepare water and waste water quality inventories.

B. SAMPLING AND ANALYTICAL METHODS

Sample collection, storage and analyses shall be performed according to 40 CFR, S136, or other methods approved and specified by the Executive Officer of this Regional Board (See Part B).

Water and waste-water analyses shall be performed by a laboratory approved for these analyses by the State Department of Health Services (DOHS) or a laboratory waived by the Executive Officer from obtaining a certification for these analyses by the DOHS. The director of the laboratory whose name appears on the certification or his/her laboratory supervisor who is directly responsible for analytical work performed shall supervise all analytical work including appropriate quality assurance/quality control procedures in his or her laboratory and shall sign all reports of such work submitted to the Regional Board.

All monitoring instruments and equipment shall be properly calibrated and maintained to ensure accuracy of measurements.

- e. If any maximum daily limit is exceeded, the sampling frequency shall be increased to daily until two samples collected on consecutive days show compliance with the maximum daily limit.
- f. If the final or intermediate results of any single bioassay test indicate a threatened violation (i.e. the percentage of surviving test organisms is less than the required survival percentage), a new test will begin and the discharger shall investigate the cause of the mortalities and report the finding in the next self-monitoring report.
- g. Chlorine residual analyzers shall be calibrated against grab samples as frequently as necessary to maintain accurate control and reliable operation. If an effluent violation is detected, grab samples shall be collected at least every 30 minutes until compliance is achieved.
- h. When any type of bypass occurs, composite samples shall be collected on a daily basis for all constituents at all affected discharge points which have effluent limits for the duration of the bypass.

3. Receiving Waters

- a. Receiving water sampling shall be conducted coincident with composite sampling of effluent.
- b. Receiving water samples shall be collected at each station on each sampling day during the period within 1 hour following low slack water. Where sampling at lower slack water period is not practical, sampling shall be performed during higher slack water period. Samples shall be collected within the discharge plume and down current of the discharge point so as to be representative, unless otherwise stipulated.
- c. Samples shall be collected within one foot below the surface of the receiving water body, unless otherwise stipulated.

4. Bottom Sediment Samples and Sampling and Reporting Guidelines

- a. Bottom sediment sample means: (a) a separate grab sample taken at each sampling station for the determination of selected physical-chemical parameters, or (b) four grab samples collected from different locations in the immediate vicinity of a sampling

- 1) Air temperatures.
- 2) Wind - direction and estimated velocity.
- 3) Total precipitation during the previous five days and on the day of observation.

2. Wastewater Effluent

- a. Samples of effluent and receiving waters shall be collected at times coincident with influent sampling unless otherwise stipulated. The Regional Board or Executive Officer may approve an alternative sampling plan if it is demonstrated that expected operating conditions warrant a deviation from the standard sampling plan.
- b. Odor: presence or absence, characterization, source, distance of travel.
- c. If analytical results are received showing any instantaneous maximum limit is exceeded, a confirmation sample shall be taken within 24 hours and results known within 24 hours of the sampling.
- d. If any instantaneous maximum limit for a constituent is exceeded in the confirmation sample described in Section D.2.c., the discharge shall be terminated until the cause of the violation is found and corrected. For other violations, the discharger shall implement procedures that are acceptable to the Executive Officer on a case by case basis.

4. Periphery of Waste Treatment and/or Disposal Facilities

- a. Odor: presence or absence, characterization, source, and distance of travel.
- b. Weather condition: wind direction and estimated velocity.

E. RECORDS TO BE MAINTAINED

1. Written reports, strip charts, calibration and maintenance records, and other records shall be maintained by the discharger and accessible (at the waste treatment plant), and 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 Regional Board or Regional Administrator of the U.S. Environmental

- 4) cause of spilling,
- 5) SPCC Spill Prevention and Containment Plan in effect, if any,
- 6) estimated size of affected area,
- 7) nature of effects (e.g., fishkill, discoloration of receiving water, etc.),
- 8) corrective measures that have been taken or planned and a schedule of these activities, and
- 9) persons notified.

2. Reports of Plant Bypass, Treatment Unit Bypass and Permit Violation

In the event the discharger violates or threatens to violate the conditions of the waste discharge requirements and prohibitions or intends to experience a plant bypass or treatment unit bypass due to:

- 1) Maintenance work, power failures, or breakdown of equipment, or
- 2) Accidents caused by human error or negligence, or
- 3) Other causes, such as acts of nature;

the discharger shall notify the Regional Board office by telephone as soon as the incident is acknowledged and confirm this notification in writing within 7 working days of the telephone notification. The written report shall include time and date, duration and estimated volume of waste bypassed, method used in estimating volume and person notified of the incident. The report shall include pertinent information explaining reasons for the noncompliance and shall indicate what steps were taken to prevent the problem from recurring.

In addition, the waste discharger shall promptly accelerate the monitoring program to analyze the discharge at least once every day. Such daily analyses shall continue until such time as the effluent limits have been attained, until bypassing stops or until such time as the Executive Officer determines to be appropriate. The results of such monitoring shall be included in the regular Self-Monitoring Report.

3. The discharger shall file a written technical report to be received at least 30 days prior to advertising for bid (60 days prior to construction) on any construction project which would cause or aggravate the discharge of waste in violation of requirements; said reports shall describe the nature, cost, and scheduling of all action necessary to preclude such discharge. In no case will any discharge of wastes in violation of permit and order be permitted unless notification is made to Executive Officer and approval obtained from the Regional Board.

4. Self-Monitoring Reports

limits for receiving water and effluent constituents specified in the permit.

c. Map or Aerial Photograph

A map or aerial photograph shall accompany the report showing sampling and observation station locations.

d. Results of Analyses and Observations

Tabulations of the results from each required analysis specified in Part B by date, time, type of sample, detection limit and station, signed by the laboratory director.

- 1) If the permittee monitors any pollutant more frequently than required by this permit using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Self-Monitoring Report.
- 2) Calculations for all limitations that require averaging of measurement shall utilize an arithmetic mean unless otherwise specified in this permit.

e. Effluent Data Summary

Summary tabulations of the data to include for each constituent total number of analyses, maximum, minimum, and average values for each period. The report format will be the NPDES Discharge Monitoring Report, EPA Form 3320-1. Flow data shall be included. The original is to be submitted to:

Executive Officer
California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

f. Flow data

- 1) The tabulation pursuant to Section F-2.

5. **Annual Reporting**

By January 30 of each year, the discharger shall submit an annual report to the Regional Board covering the previous calendar year. The report shall contain:

- a. Authorization is made in writing by a principal executive officer or ranking elected official;
 - b. Authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as general partner in a partnership, sole proprietor in a sole proprietorship, the position of plan manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)
5. Average values for daily and monthly values is obtained by taking the sum of all daily values divided by the number of all daily values measured during the specified period.
6. Median of an ordered set of values is that value below and above which there is an equal number of values, or which is the arithmetic mean of the two middle values, if there is no one middle value.
- a. A 5-day median value for coliform bacteria is the third highest count of 5 daily counts obtained from 5 consecutive sampling days. A 7-day median value is the fourth highest of 7 daily counts obtained from 7 consecutive sampling days.
 - b. A 5-day moving median value for coliform bacteria is the median value calculated for each consecutive sampling day based upon the period from the sample day and the previous 4 sampling days.
 - c. A 7-day moving median is calculated for each consecutive sampling day based upon the period from the sample day and the previous 6 sampling days. Moving median values for the beginning of the month shall be calculated using the previous month's count (i.e. the last four counts for a 5-day moving median and the last seven counts for a 7-day moving median from the previous month).
7. A 6-month median means a moving median of daily values for any 180 day period in which daily values represent flow-weighted average concentrations within a daily or 24-hour period. For intermittent discharges, the daily value shall be considered to equal zero for days on which no discharge occurred.

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Part B

This portion of the Self Monitoring Program (SMP) contains sampling station locations and descriptions specific to the permitted discharge.

A. EFFLUENT - HYDRAULIC DREDGING OPERATION

<u>Station</u>	<u>Description</u>
E-1	The wastewater at the weir prior to discharge through the pipeline from the retention ponds to the adjacent marsh and the Suisun Bay.

<u>Analyses</u>	<u>Units</u>	<u>Type of Sample and Frequency</u>
Settleable matter	ml/hr	Grab sample during the first and last hour of operation, once per month when discharging.
pH		" " " " "
Dissolved Oxygen	mg/l	" " " " "

Observations

All standard observations as follows:

- a. Evidence of oil, grease or foam: presence or absence, source, and size of affected area.
- b. Discoloration/Turbidity: description of color, source, and size of affected area.
- c. Detectable odor.
- d. Depth of sample.
- e. Depth of water.

TABLE 1. Schedule for sampling, analysis, and observations.

Parameter	Stations E	Stations C	Stations L
Type of sample	Grab	Grab	Observations
Settleable Matter (ml/l-hr)	Monthly	pre/post Episode	
pH	Monthly	pre/post Episode	
Dissolved Oxygen (mg/l)	Monthly	pre/post Episode	
Standard Observations	Monthly	Monthly	Monthly

D. REPORTS TO BE FILED WITH THE REGIONAL BOARD

1. Violation of Requirements:

In the event the Discharger is unable to comply with the conditions of these waste discharge requirements and prohibitions due to:

- (a) maintenance work, power failure, or breakdown of waste treatment equipment, or
- (b) accidents caused by human error or negligence, or
- (c) other causes such as acts of nature,

the Discharger shall notify the Regional Board office by telephone as soon as the Discharger's agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written report shall include pertinent information explaining reasons for the non-compliance and shall indicate what steps were taken to prevent the problems from recurring.

2. Self-Monitoring Reports

Written reports shall be filed quarterly for each calendar month by the fifteenth day of the following month. The reports shall be comprised of the following:

a. Letter of Transmittal:

A letter transmitting self-monitoring reports shall accompany each report. The letter shall include a discussion or requirements violations found during the past month and actions taken or planned for correcting violations, such as operation modifications and/or facilities expansion. If the discharger has previously submitted a detailed time schedule for correcting requirement violations, a reference to the correspondence transmitting such schedule will be satisfactory. The letter shall contain a