

# Orange County Sanitation District

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October 1, 2014

George Peyton, Manager  
Remora Operating CA, LLC  
301 Congress Ave., Suite 315  
Austin, TX 78701

SUBJECT: Issuance of Class I Industrial Wastewater Discharge Permit  
Re: Permit No. 58-1-192

Enclosed is Industrial Wastewater Discharge Permit No. 58-1-192 issued by the Orange County Sanitation District (OCSD) for Remora Operating CA, LLC (Remora) located at 219 1<sup>st</sup> Street in Huntington Beach. Remora is required to comply with the permit limits and conditions set forth in this permit at all times.

Please see part 4 of the permit for annual calibration requirement and monthly flow data reporting for the effluent flow meter.

Remora is also required to develop and implement an accidental discharge/slug control plan (Slug Control Plan) in accordance with the requirements of this permit and OCSD's *Wastewater Discharge Regulations* (Ordinance). The appropriate Slug Control forms must be submitted to OCSD by **January 1, 2015**. Please see the attached Slug Control Plan requirements for your guidance.

If there are any discrepancies with the information described in this permit, please notify OCSD in writing. Remora is also required to notify OCSD in writing of any changes relating to company information, manufacturing processes, pretreatment system, wastes/wastewater quantity, sampling point location, piping, or any other relevant information.

If you have any questions, please contact Jane Tran at (714) 593-7441 or email: [jtran@ocsd.com](mailto:jtran@ocsd.com).



Jane Tran, P.E.  
Engineer, Environmental Compliance Division

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Enclosure

c: ETS



# INDUSTRIAL WASTEWATER DISCHARGE CLASS I PERMIT

Permit No: 58-1-192

## FOR DISCHARGE OF WASTEWATER ISSUED BY ORANGE COUNTY SANITATION DISTRICT

In accordance with the provisions of the Wastewater Discharge Regulations of Orange County Sanitation District, herein referred to as "District",

**REMORA OPERATING CA, LLC.  
219 FIRST ST.  
HUNTINGTON BEACH, CA 92648**

hereinafter referred to as "Permittee", is hereby authorized to discharge industrial wastewater from the above identified facility into the District's sewer system in accordance with the conditions set forth in this permit. Such conditions are as specified in the following parts of this permit:

- Part 1 - Effluent Limits and Flow Basis
- Part 2 - Monitoring, Notification, and Reporting Requirements
- Part 3 - Standard Conditions
- Part 4 - Special Conditions

Compliance with this permit does not relieve the Permittee of its obligation to comply with the District's current Wastewater Discharge Regulations, any applicable pretreatment regulations, standards or requirements under local, State, and Federal laws, including any such regulations, standards, requirements or laws that may become effective during the term of this permit. Non-compliance with any term or condition of this permit constitutes a violation of the current Wastewater Discharge Regulations.

This permit shall become effective on October 01, 2014 and shall expire on September 30, 2016.

James E. Colston  
Environmental Compliance Manager



Issued on

October 1, 2014

ORANGE COUNTY SANITATION DISTRICT, CALIFORNIA

10844 Ellis Avenue  
Fountain Valley, CA 92728-8127  
(714) 962-2411

**PART 1 - EFFLUENT LIMITS AND FLOW BASIS**

During the period from October 01, 2014 to September 30, 2016, Permittee is authorized to discharge industrial wastewater into the sewer system tributary to the District's sewerage facilities. The effluent discharge shall not exceed either the following concentration limits in mg/L or the mass emission rate limits in lbs/day. If your mass emission rate is based on flow, then your flow base is presumed to be 12000 gallons per day (gpd) of wastewater flow at the sampling point.

Company Name: REMORA OPERATING CA, LLC.			Permit No.: 58-1-192	
Sewer Address:  219 FIRST ST. HUNTINGTON BEACH, CA 92648	Flow Base: 12000 gpd		Effective Date:	10/01/2014
	WWAR Percent Loss:	0	Expiration Date:	09/30/2016
WWAR Fixed Loss:	0.000 MGY			
Primary Category: CSDOC	Subcategory: 40 CFR # 403		Subpart:	

**DISCHARGE LIMITS**

CONSTITUENT	Instantaneous Limit mg/L	Daily Max mg/L	4-Day Avg mg/L	Monthly Avg mg/L	Daily Max lbs/day	Monthly Avg lbs/day
Arsenic	2.000	2.000	■	■	0.200	■
BOD	■	■	■	■	15000	■
CN(A)	1.000	1.000	■	■	0.100	■
CN(T)	5.000	5.000	■	■	0.500	■
Cadmium	1.000	1.000	■	■	0.100	■
Chromium	2.000	2.000	■	■	0.200	■
Copper	3.000	3.000	■	■	0.300	■
Dissolved Sulfides	0.500	0.500	■	■	■	■
Lead	2.000	2.000	■	■	0.200	■
Mercury	0.030	0.030	■	■	0.003	■
Nickel	10.000	10.000	■	■	1.001	■
Oil & Grease Min.	100.000	100.000	■	■	■	■
PCB	0.010	0.010	■	■	■	■
Pesticides	0.010	0.010	■	■	■	■
Silver	5.000	5.000	■	■	0.500	■
Total Sulfides	5.000	5.000	■	■	■	■
Total Toxic Organics	0.580	0.580	■	■	■	■
Zinc	10.000	10.000	■	■	1.001	■
pH	6-12	6-12	■	■	■	■

SAMPLING POINT LOCATION: The above effluent limits apply at the sampling point located in the discharge line from the last clarifier. The sample point is a sample tap and represents all industrial wastewater discharge from the facility.

Cyanide limits apply at the sampling point after cyanide treatment, but prior to dilution with other streams. If there is no cyanide treatment, the sample must be taken at the end of the cyanide process before dilution with other process streams. In the absence of cyanide process, the limits apply at the sampling point location described above (end of pipe).



**PART 2 - SELF-MONITORING, NOTIFICATION AND REPORTING REQUIREMENTS**

**I. SELF-MONITORING REQUIREMENTS**

Permittee shall conduct monitoring of its own wastewater effluent for the purpose of determining the status of compliance/non-compliance and user charges. Based on the results, Permittee shall make the necessary adjustments/corrections to bring the wastewater discharge into immediate compliance with its permitted limits. The specific requirements are as follows:

**A. Monitoring/Sampling Requirements**

From the effective date of the permit and until the permit is terminated or revised, Permittee shall monitor its wastewater discharge for the following parameters at the indicated frequency<sup>1</sup>:

Parameters	Measurement Frequency	Sample Type <sup>2</sup>	Procedure
Metals: None			
Cyanides: None			
Organics <sup>4</sup> : None			
Others: Oil & Grease Min.	Semi-Annual	Grab	four(4) grab samples which may be combined by the laboratory personnel prior to analysis
Flow (gal/day) <sup>3</sup> pH <sup>3</sup>			

<sup>1</sup>NOTE: To the extent that special conditions in Part 4 of this permit require more extensive self monitoring, the special conditions shall apply.

<sup>2</sup>Sample type is either composite or grab as defined in current Wastewater Discharge Regulations under Section 102.

<sup>3</sup>Flow and pH should be measured concurrently with composite sampling.

<sup>4</sup>See Attachment A Section 3c for a list of Total Toxic Organic constituents, if applicable.

**B. Representative Sampling and Laboratory Analyses**

Samples and measurements taken as required herein shall be representative of the volume and nature of the regulated industrial discharge during hours of production. All samples shall be taken at the sampling point location as designated in this permit. All equipment used for sampling and analysis must be routinely calibrated, inspected, and maintained to ensure its accuracy. All sampling and laboratory analyses shall be conducted in accordance with Attachment A.

**C. Frequency, Sampling Schedule and Due Dates for Submission of Reports**

Sampling of wastewater effluent and reporting of results shall be done in accordance with the schedule shown below. Sampling may be performed any day within the specified date range as designated in this permit. If sampling cannot be conducted within the specified date for any valid reason, the District must be notified in advance and in writing, of the reason(s) for the inability to sample and the new proposed sampling date.

**1. Quarterly and Semi-Annual Frequency Deadlines**

<b>METALS</b>	<b>Sampling Date</b>	<b>Report Submission Due Date</b>
None		
<b>BOD, TSS</b>	<b>Sampling Date</b>	<b>Report Submission Due Date</b>
None		
<b>CYANIDES</b>	<b>Sampling Date</b>	<b>Report Submission Due Date</b>
None		
<b>ORGANICS</b>	<b>Sampling Date</b>	<b>Report Submission Due Date</b>
None		
<b>OIL &amp; GREASE</b>	<b>Sampling Date</b>	<b>Report Submission Due Date</b>
First Half (Jul 2014 - Dec 2014)	December 1 - December 16	December 31, 2014
Second Half (Jan 2015 - Jun 2015)	June 1 - June 16	June 30, 2015
First Half (Jul 2015 - Dec 2015)	December 1 - December 16	December 31, 2015
Second Half (Jan 2016 - Jun 2016)	June 1 - June 16	June 30, 2016

**2. Monthly, Weekly, and Daily Frequency Deadlines**

- a. Samples must be collected in accordance with the requirements specified in Part 2 Section A, as applicable.
- b. Depending on the self-monitoring frequency, sampling must be conducted in the following manner, as applicable:
  - (i) **Monthly Self-Monitoring**  
A sample of the wastewater effluent shall be collected and analyzed a minimum of one (1) sampling day per month. The sampling day shall be rotated to the successively different plant operational day during each month of monitoring.
  - (ii) **Weekly Self-Monitoring**  
A sample of the wastewater effluent shall be collected and analyzed a minimum of four (4) sampling days per month (once a week). The sampling day shall be rotated to the successively different plant operational day during each week of monitoring.
  - (iii) **Daily Self-Monitoring**  
A sample of the wastewater effluent shall be collected and analyzed each day of discharge each month.
- c. Reporting of monthly, weekly, and daily self-monitoring results must be done on a monthly basis. Self-monitoring reports must be submitted by the twentieth (20th) day of the month following sampling.

#### **D. Requirements for Reporting Results**

##### **1. Self-Monitoring Reports**

Permittee shall submit a Self-Monitoring Report (SMR) on the date(s) specified above. Monitoring results shall be summarized and reported on a District SMR form. The District will not accept formats other than what is shown in the SMR form; therefore, forms provided by the District or replicates must be used for reporting of results. Failure to receive the SMR forms does not relieve Permittee from the obligation to perform the self-monitoring and submit the report on the required date. The SMR form shall be completely filled-out, with copies of all laboratory results attached. The report shall indicate the concentration of all pollutants in the effluent for which sampling and analyses were performed, including water meter readings required for flow measurement.

If sampling performed by the permittee indicates a violation, the permittee shall notify the Source Control Division within 24 hours of becoming aware of the violation. The reporting may be accomplished by a telephone call, fax transmission, e-mail, or a personal visit to Source Control. The violation reporting shall contain the date and time of the wastewater sample, the discharge flow for the sample, a possible explanation for the violation(s), and the date scheduled for the resample.

##### **2. Signatory Requirements**

Prior to submittal of the SMR to the District, the results shall be verified and signed under penalty of perjury, by an authorized company official as defined in 40 CFR 403.

#### **E. Additional Monitoring Requirements in Response to Non-compliance**

##### **1. Resampling**

Upon submission of the SMR to the District by the required due date, the District will process the results for mass emission rate calculations, review the concentration results, and notify Permittee of the results. If the results indicate that a violation of the applicable concentration and/or mass discharge limits has occurred, a Notice of Violation will be issued and Permittee must repeat the sampling and pollutant analyses of the required parameters, and submit the results of the repeat analysis to the district within 30 days after becoming aware of the violation.

##### **2. Reporting**

- a. The monitoring results shall be submitted as specified in E.1.
- b. The requirements for reporting results, as described in D.1 and D.2, shall be followed for the additional monitoring requirements in response to non-compliance.

#### **F. Requirements for Reporting Results of Voluntary Self-Monitoring**

1. Any voluntary self-monitoring sample of the effluent obtained during a 24-hour period from the representative sampling point location identified in Part 1 of this permit, that is collected and analyzed in accordance with the guidelines shown in Attachment A, constitutes a valid sample. Results of the analysis for all valid samples shall be reported to the District, regardless of the outcome.
2. Self-monitoring results for all valid samples must be submitted using an official numbered Voluntary Self-Monitoring Report (VSMR) Form and received by the District within 30 days from the day the sampling event was concluded. Permittee shall obtain the official VSMR Form from the District, with a unique tracking/identification number for each day of self-monitoring.
3. The District will not consider VSMR Forms received after 30 days from the day the sampling event was concluded. Exceptions to the 30-day submittal policy due to extenuating circumstances or special situations shall be authorized by the District's General Manager or his/her designee.
4. Upon submission of the completed VSMR Form to the District by the required 30-day due date, the District will evaluate the sample results to determine compliance. If the results indicate that a violation of the applicable discharge limits has occurred, a notice of violation may be issued requiring Permittee to implement corrective measures.

## **II. NOTIFICATION REQUIREMENTS**

### **A. Permittee shall comply with the notification requirements set forth in the current Wastewater Discharge Regulations:**

#### **1. Notification of Spill and Slug Loading**

- a. In the event Permittee is unable to comply with any permit condition due to a breakdown of equipment, accidents, or human error, or Permittee has reasonable opportunity to know that his discharge will exceed the discharge provisions of the user's permit, Permittee shall immediately notify the District by telephone. If the material discharged to the sewer has the potential to cause or result in a fire or explosion hazard, Permittee shall immediately notify the local fire department and the District.
- b. Confirmation of this notification shall be made in writing no later than five (5) working days from the date of the incident. The written notification shall state the date of the incident, the reasons for the discharge or spill, what steps were taken to immediately correct the problem, and what steps are being taken to prevent the problem from recurring.
- c. Such notification shall not relieve the user of any expense, loss, damage or other liability which may be incurred as a result of damage or loss to the District or any other damage or loss to person or property; nor shall such notification relieve the user of any fees or other liability which may be imposed by a District's Ordinance or other applicable law.

#### **2. Notification of Bypass**

- a. Bypass of industrial wastewater to the sewer system is prohibited. The District may take enforcement action against the user, unless:
  - (i) Bypass was unavoidable because it was done to prevent loss of life, personal injury, or severe property damage;
  - (ii) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, elective slow-down or shut-down of production units or maintenance during periods of production downtime. This condition is not satisfied if adequate backup equipment could have been feasibly installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance; and,
  - (iii) Permittee submitted notices as required under 2.b.
- b. If Permittee knows in advance of the need for a bypass, it shall submit a written request to allow the bypass to the District, if possible, at least ten (10) days before the date of the bypass.
- c. The District may approve an anticipated bypass at its sole discretion after considering its adverse effects, and the District determines that the conditions listed in 2.a.(i-iii) are met.
- d. Permittee shall provide telephone notification to the District of an unanticipated bypass that exceeds its permitted discharge limits within four hours from the time Permittee becomes aware of the bypass. A written report shall also be provided within five (5) days of the time Permittee becomes aware or could reasonably have been aware of the bypass. The report shall contain a description of the bypass and its cause; the duration of the bypass, including exact dates and times, and, if the bypass has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass. Failure to submit oral notice or written report may be grounds for permit revocation.

### **B. Notification regarding Planned Changes**

Permittee shall notify the District 90 days in advance prior to any facility expansion, production increase, or process modifications which may result in new or substantially increased discharges or a change in the nature of the discharge. Permittee shall notify the District in writing of the proposed expansion and shall submit any information requested by the District for evaluation of the affect of such expansion on the Permittee's discharge to the sewer system.

**III. OTHER REPORTING REQUIREMENTS**

**A. Slug Discharge Control Plan**

Permittee shall develop, maintain and implement in accordance with 40 CFR 403.8(f)(2)(v) a Slug Control Plan to respond to spills, emergency bypass and any accidental discharges that may result in a violation of any permit limits or conditions, or may significantly exceed the normal flow to the sewer system or pollutant loading. The plan shall contain detailed procedures to be followed by permittee in responding to a slug discharge at the Permittee's facility. The procedures shall include provisions to eliminate endangerment of human health and safety by containment and clean up of the slug discharge, and prevent any violation of Permittee's discharge limits and the District's Wastewater Discharge Regulations (Ordinances). The Plan shall also provide procedures and facilitate immediate notification of the District of a slug discharge event.

Permittee shall review and update the Slug Control Plan every two years.

The Slug Discharge Control Plan, at a minimum, must contain the following:

1. Description of the permittee's sewer discharge practices including non-routine batch discharges.
2. Description of stored chemicals including type and characteristic, volume, and chemical hazard classification.
3. Procedures to prevent slug discharges to the sewer system.
4. Description of equipment for responding to slug discharges.
5. Procedures for inspection and maintenance of the chemical storage areas to assure proper daily handling.
6. A copy of an operation log sheet recording the maintenance performed, volume of spill, and corrective measures taken.
7. Procedures for proper training of key personnel for handling slug discharges.
8. Emergency telephone numbers for promptly reporting slug discharges to the appropriate governmental agencies.

**B. Waste Minimization Requirements**

Upon request by the District, Permittee shall provide waste minimization plans to conserve water, investigate product substitution, provide inventory control, implement employee education, and other steps as necessary to minimize waste produced.

**C. Water and Tax Bill Submittal**

Permittee shall submit to the District, copies of Water and Tax Bills within 30 days of receipt of such bills.

**D. Changes in Company Information**

Permittee shall immediately inform the District of any changes or inaccuracies in the following company information which is currently on file:

<b>COMPANY NAME:</b> REMORA OPERATING CA, LLC.	<b>PHONE:</b> (512) 579-3590 <b>FAX:</b> (650) 618-1853	<b>LOCAL SEWERING AGENCY:</b> CITY OF HUNTINGTON BEACH
<b>MAILING ADDRESS:</b> 301 CONGRESS AVE., SUITE 315 AUSTIN, TX 78701	<b>RESPONSIBLE OFFICER:</b> GRANT LIVESAY MANAGER	<b>NO. OF EMPLOYEES:</b> 0
		<b>WORK DAYS/YEAR:</b> 365
<b>SERVICE ADDRESS:</b> 219 FIRST ST. HUNTINGTON BEACH, CA 92648	<b>DESIGNATED SIGNATORY:</b> GEORGE PEYTON MANAGER	<b>N.A.I.C.S. NUMBER:</b> 211111

**E. Falsifying Information**

Knowingly making any false statement on any report or other document required by this permit or knowingly rendering any monitoring device or method inaccurate is a crime and may result in the imposition of criminal sanctions and/or civil penalties.



## **PART 3 - STANDARD CONDITIONS**

### **I. PROHIBITIONS, LIMITS AND REQUIREMENTS**

Permittee is required to comply with the prohibitions and limits on discharges set forth in Article 2 of the current Wastewater Discharge Regulations:

- A. Prohibited Discharges
- B. Prohibition on Dilution
- C. Prohibition on Surface Runoff and Groundwater
- D. Prohibition on Unpolluted Water
- E. Prohibition on the Use of Grinders
- F. Prohibition on Point of Discharge
- G. Prohibition on Medical Waste
- H. Prohibition on Disposal of Spent Solutions and Sludges

### **II. CIVIL PENALTIES**

All users of the District's system and facilities are subject to enforcement actions administratively or judicially by the District, U.S. EPA, State of California Regional Water Quality Control Board, or the County of Orange District Attorney.

Any person who violates any provision of the current Wastewater Discharge Regulations; or any permit condition, prohibition or effluent limitation; or any suspension or revocation order shall be liable civilly for a sum not to exceed \$25,000.000 per violation, for each day in which such violation occurs.

#### **A. Administrative Civil Penalties**

Administrative Civil Penalties may be assessed as follows:

- 1.) In an amount which shall not exceed two thousand dollars (\$2,000.00) for each day for failing or refusing to furnish technical or monitoring reports;
- 2.) In an amount which shall not exceed three thousand dollars (\$3,000.00) for each day for failing or refusing to timely comply with any compliance schedules established by the District;
- 3.) In an amount which shall not exceed five thousand dollars (\$5,000.00) per violation for each day of discharge in violation of any waste discharge limit, permit condition, or requirement issued, reissued, or adopted by the District;
- 4.) In any amount which does not exceed ten dollars (\$10.00) per gallon for discharges in violation of any suspension, revocation, cease and desist order or other orders, or prohibition issued, or adopted by the District

### **III. CRIMINAL PENALTIES**

Any person who violates any provision of the Ordinance is guilty of a misdemeanor which upon conviction is punishable by a fine not to exceed \$1,000.00 or imprisonment for not more than thirty (30) days, or both. Each violation and each day in which a violation occurs may constitute a new and separate violation.

### **IV. SEVERABILITY**

The provisions of this permit are severable. If any provision of those permit limits and/or requirements, or the application thereof, to the Permittee is held invalid, the remainder of the permit limits and/or requirements shall remain in full force and effect.

### **V. OTHER CONDITIONS**

- A. Permittee is required to comply with all regulations and discharge limits in the current Wastewater Discharge Regulations and any attachments to this permit.
- B. Except as expressly authorized by the District, upon the sale or transfer of ownership of the business for which this permit is issued, this permit shall be void. The permittee shall notify the District in writing prior to the transfer of ownership and shall give a copy of the existing permit to the new owner or operator.

- C. Issued Permits are for a specific user, for a specific operation at a specific location, create no vested rights, and are non-transferable unless conditions as stated in the Ordinance are met. If transfer is allowed, a copy of the existing permit must be given to the new owner or operator. Industrial Wastewater Discharge permits, their concentration limits or their mass emission rates shall not be transferred for an operation at a different location.
- D. Permittee shall maintain plant records relating to wastewater discharge and waste manifests for a minimum of three years.

**PART 4 - SPECIAL CONDITIONS FOR PERMIT NO. 58-1-192**

- Permittee shall obtain MONTHLY readings of the industrial wastewater volume discharged to the sewer for the purpose of determining accurate billing of user charges and submit a report to the District on the 20th of the following month using the report form that will be provided to Permittee each month. Failure to receive a form from the District does not exempt Permittee from obtaining and submitting flow data for that period.
- Permittee shall comply with the effluent meter calibration reporting as specified in **Attachment 161**.
- If Permittee uses an in-pipe meter, the following schedule must be used for calibration and reporting of the data.

<b>Type of Calibration</b>	<b>Report Due Date</b>
Hydraulic	<u>10/01/2015</u>
Hydraulic	<u>8/01/2016</u>

(the report must be submitted with the permit renewal application)

**ATTACHMENTS**  
**PERMIT NO. 58-1-192**  
**REMORA OPERATING CA, LLC.**

**ATTACHMENT A  
PERMIT NO. 58-1-192  
REMORA OPERATING CA, LLC.**

**SELF-MONITORING REQUIREMENTS**

**1. Sampling and Analysis of Heavy Metals**

a. **Composite Sampling.** Permittee shall collect and analyze a 24-hour composite sample of the wastewater effluent for heavy metals at a frequency specified in Part 2 of the permit. All effluent sampling must be conducted using an automatic sampling device which is capable of collecting samples at 15-minute intervals during all hours of discharge in a 24-hour day. Flow-proportional samples are acceptable with a minimum of 96 samples collected per 24 hours of discharge. For batch dischargers, a grab sample is acceptable for a well-mixed batch; otherwise, a composite sample during the period of discharge must be obtained.

b. **Discharge Flow.** Water meter readings shall be obtained during the start and end of composite sampling to determine the volume of water discharged during the 24 hour sampling period. Meter readings are necessary to determine the total flow needed for calculation of the daily mass emission rate for the actual wastewater discharged. Additionally, the start and stop times must be recorded. The units in which the water meter readings are expressed must be properly ascertained.

Permittee shall measure and record daily total flow using flow measurement devices and methods that ensure an accurate measurement of the volume of monitored discharge. The use of effluent meters provides an accurate measurement of the volume discharged; however, in the absence of effluent meters, the OCSD accepts the use of incoming water meters or process meter totalizers with appropriate standard deductions such as domestic, process, and landscape losses. These deductions will be applied by the OCSD, upon processing of the self-monitoring report, to determine the volume of wastewater discharged to the sewer system. The devices shall be installed, calibrated, and maintained to ensure that the accuracy of the measurement is consistent with the accepted capability of that device.

c. **Laboratory Analyses.** All wastewater samples shall be collected and analyzed in accordance with the appropriate procedures contained in 40 CFR 136. Where 40 CFR 136 does not include sampling or analytical techniques for the pollutants in question, analyses shall be performed using the most current edition of "Standard Methods for the Examination of Water and Wastewater". Wastewater analyses shall be performed by a laboratory utilizing the approved method for performing the analyses on the required constituents. Upon the OCSD request, Permittee shall obtain from their laboratory and furnish to the OCSD, information regarding test methods and equipment used, including quality assurance/quality control (QA/QC) information. Other information deemed necessary by the OCSD to determine the adequacy, accuracy, and precision of the results may also be required.

**2. Sampling and Analysis for Cyanides**

a. **Sampling.** Permittee shall collect and analyze a sample of its wastewater effluent for cyanides at a frequency specified in Part 2 of the Permit. All sampling for cyanide must be conducted by taking grab samples of the wastewater after cyanide treatment, but prior to dilution with other streams. If there is no cyanide treatment, the samples must be taken at the end of the cyanide process before dilution with other process streams. A minimum of four grab samples shall be taken independently during hours of operation within a 24-hour period. The grab samples may be composited by the laboratory personnel prior to analysis. Proper sampling and preservation techniques in accordance with EPA requirements must be used to ensure representative sample results.

b. **Laboratory Analyses.** All wastewater samples shall be collected and analyzed for cyanides in accordance with the appropriate procedures contained in 40 CFR 136 using EPA Methods. Wastewater analyses shall be performed by a laboratory utilizing the approved method for performing the analyses on the required constituents. Upon the OCSD request, Permittee shall obtain from their laboratory and furnish to the OCSD, information regarding test methods and equipment used, including QA/QC information. Other information deemed necessary by the OCSD to determine the adequacy, accuracy, and precision of the results may also be required.



### 3. Sampling and Analysis for Total Toxic Organics (TTOs)

- a. **Sampling.** Permittee shall collect and analyze samples of the wastewater effluent at the sample point for TTOs at a frequency specified in **Part 2** of the permit. All effluent sampling for volatile organic compounds must be conducted by taking grab samples of the wastewater effluent. A minimum of four grab samples shall be taken independently during hours of operation within a 24 hour period. Each sample shall be analyzed independently for toxic organic constituents present in the facility. The average concentration from the four grab sample results with concentrations greater than 10 µg/L shall be used to determine compliance with TTOs mass emission and/or concentration limits.
- b. **Laboratory Analyses.** All wastewater samples shall be collected and analyzed in accordance with the appropriate procedures contained in 40 CFR 136 using EPA Methods (i.e., for Purgeable Halocarbons and Aromatics, use Methods 601 and 602, or 624). Wastewater analyses shall be performed by a laboratory utilizing the approved method for performing the analyses on the required constituents. Upon the OCSD request, Permittee shall obtain from their laboratory and furnish to the OCSD, information regarding test methods and equipment used, including QA/QC information. Other information deemed necessary by the OCSD to determine the adequacy, accuracy, and precision of the results may also be required.

### 4. Sampling and Analysis of BOD and TSS

- a. **Composite Sampling.** Permittee shall collect and analyze a 24-hour composite sample of the wastewater effluent at the sample point for BOD and TSS at a frequency specified in **Part 2** of the permit. All effluent sampling must be conducted using an automatic sampling device which is capable of collecting samples at 15-minute intervals during all hours of discharge in a 24-hour day. Flow-proportional samples are acceptable with a minimum of 96 samples collected per 24 hours of discharge. For batch dischargers, a grab sample is acceptable for a well-mixed batch; otherwise, a composite sample during the period of discharge must be obtained.
- b. **Discharge Flow.** Water meter readings shall be obtained during the start and end of composite sampling to determine the volume of water discharged during the 24 hour sampling period. Meter readings are necessary to determine the total flow needed for calculation of the daily mass emission rate for the actual wastewater discharged. Additionally, the start and stop times must be recorded. The units in which the water meter readings are expressed must be properly ascertained.

Permittee shall measure and record daily total flow using flow measurement devices and methods that ensure an accurate measurement of the volume of monitored discharge. The use of effluent meters provides an accurate measurement of the volume discharged; however, in the absence of effluent meters, the OCSD accepts the use of incoming water meters or process meter totalizers with appropriate standard deductions such as domestic, process, and landscape losses. These deductions will be applied by the OCSD, upon processing of the self-monitoring report, to determine the volume of wastewater discharged to the sewer system. The devices shall be installed, calibrated, and maintained to ensure that the accuracy of the measurement is consistent with the accepted capability of that device.

- c. **Laboratory Analyses.** All wastewater samples shall be collected and analyzed in accordance with the appropriate procedures contained in 40 CFR 136 using EPA Methods. Wastewater analyses shall be performed by a laboratory utilizing the approved method for performing the analyses on the required constituents. Upon the OCSD request, Permittee shall obtain from their laboratory and furnish to the OCSD, information regarding test methods and equipment used, including QA/QC information. Other information deemed necessary by the OCSD to determine the adequacy, accuracy, and precision of the results may also be required.

### 5. Sampling and Analysis for Oil and Grease (O&G)

- a. **Sampling.** Permittee shall collect and analyze samples of the wastewater effluent at the sample point location for O&G at a frequency specified in **Part 2** of the permit. A minimum of four grab samples shall be taken independently during hours of operation within a 24-hour period. The grab samples may be composited by the laboratory personnel prior to analysis. Proper sampling and preservation techniques, in accordance with EPA requirements, must be used to ensure representative results.
- b. **Laboratory Analyses.** All wastewater samples shall be collected and analyzed in accordance with the appropriate procedures contained in 40 CFR 136 using EPA Methods. Wastewater analyses shall be performed by a laboratory utilizing the approved method for performing the analyses on the required constituents. Upon the OCSD request, Permittee shall obtain from their laboratory and furnish to the OCSD, information regarding test methods and equipment used, including QA/QC information. Other information deemed necessary by the OCSD to determine the adequacy, accuracy, and precision of the results may also be required.

# ORANGE COUNTY SANITATION DISTRICT

## ATTACHMENT 161

### EFFLUENT FLOW METER CALIBRATION REQUIREMENTS

#### I. GENERAL

Permittee shall provide an effluent flow measuring device that is suitable for the application and that accurately measures and records the entire volume of industrial wastewater discharged to the sewer system with a minimum accuracy of  $\pm 5\%$  at all times.

#### FLOW MEASURING DEVICE

The most common flow measuring device is an open-channel flow meter, which is acceptable to the District. Other types of flow measuring devices, such as in-line (in-pipe) flow meters may be acceptable if Permittee demonstrates that the installation of an open-channel flow meter is not feasible and that the in-line flow meter functions with the same level of accuracy. The flow measuring device must be equipped with:

- A momentary contact-closure pulse-signal generating device that can be used to activate an automatic sampling device at uniform increments of discharge volume. The contact closure must be set at a rate to provide at least 50 aliquots during a 24-hour period.
- A flow metering system to accurately measure the expected range of the flow (minimum, average, and maximum) with an accuracy of a minimum of  $\pm 5\%$ .
- A recorder and a totalizer that continuously record the volume, time, and date of flow discharged to the District's sewer system. **The District will not accept a flow meter that has a resettable totalizer.**

#### CALIBRATION REQUIREMENTS

To ensure proper operation and continued accuracy of the flow measuring device, Permittee is required to conduct calibration and performance maintenance of the device. Permittee is required to meet, as a minimum, the following requirements for calibration and maintenance:

**Calibration shall be conducted under the direct supervision of an engineer registered in the State of California, and in accordance with procedures prepared by the registered engineer. The engineer conducting the calibration shall certify the calibration report submitted to the District.**

#### A. Hydraulic Calibration

Hydraulic calibration must check and calibrate the entire flow meter system and its components. The calibration of the full system shall include calibration of all associated instruments and appurtenances. Hydraulic calibration requires that the system be checked by:

1. Comparing a known flow induced into the system independent of the installed flow metering device at the facility.
2. Performing the calibration with instrumentation and method with a minimum accuracy of  $\pm 2\%$  or better.
3. Testing and calibrating the flow metering device at minimum, maximum, and average daily flows discharged to the sewer system.

4. Using appropriate manufacturer's certified calibration curves or data for the flow meter device used at the facility.
5. Conducting in-line flow meter calibration using a calibration simulator system provided or approved by the manufacturer to simulate flow conditions and output to instrumentation.

#### **B. Instrument Calibration**

Instrument calibration must set the accuracy of the measuring and recording instrumentation by:

1. Testing at minimum, average, and maximum flows that represent actual daily flow conditions.
2. Conducting the calibration using appropriate procedures approved by a California Registered Professional Engineer.

#### **C. Calibration Frequency and Reporting Schedule**

1. Open-channel flow meters must be hydraulically calibrated at least once every two years or as determined by the District.
2. Open-channel flow meters must be instrument-calibrated yearly or as determined by the District.
3. In-pipe meters must be hydraulically calibrated at least once a year or as determined by the District.
4. All calibrations must be performed within 30 days prior to report submittal.
5. All new flow meters are required to be hydraulically calibrated after initial installation.
6. The calibration report, including all appropriate information and data, must be submitted to the District in accordance with the requirements and schedule set forth by the District.

#### **EFFLUENT FLOW METER MAINTENANCE**

The District requires permittees that operate effluent flow meters to have a program of regular maintenance to ensure proper operation of the meters and a continued minimum accuracy of  $\pm 5\%$  which, as a minimum, includes:

- All parts of the flow metering device that require cleaning should be cleaned on a monthly basis.
- Accurate records of any cleaning or maintenance of the meter must be kept and made available upon the District's request.

#### **V. CALIBRATION REPORT**

Permittee shall provide to the District all the calibration test and maintenance information accompanied by a certification of test results signed by the California Registered Professional Engineer performing the calibration and affixed with the engineer's current Registered Engineer stamp. The report shall also be certified by Permittee's responsible officer or designated signatory.

**Failure to provide the certification and all the information required accurately and completely will be a violation of permit conditions and may result in enforcement actions, including penalties for failure to report.**

## **EFFLUENT FLOW METER CALIBRATION REPORT INSTRUCTIONS**

**Company Information:** The company name, sewer address, and mailing address as listed in the permit.

### **1. Effluent Flow Meter Location:**

- Select the appropriate meter location based on the schematics shown on the Effluent Flow Meter Location Form on Page 3.

### **2. Effluent Meter Description:**

- Check the appropriate box(es) to identify the type of flow meter.

### **3. Flow Measuring System Details:**

- Provide the effluent flow meter specification, including the size and brand of devices and range, instrument span and range, contact closure frequency, etc. and any additional information pertinent to the calibration.
- 4. Provide the average and the back flows used by the calibration engineer to determine the calibration flows. The flows must be the **current** maximum and average flows of the facility. The flow meter system must be tested at a minimum of three (3) different known flow rates, such as the actual, minimum, maximum, and average flow rates discharged.

### **5. Calibration Results:**

- Complete the hydraulic and instrumentation calibration results table.
- Submit to the District a copy of all data collected, any calculations performed, and any other information pertinent to the calibration.

### **6. Method of Calibration:**

- Provide a complete and detailed description of the method of calibration, including a description of any special pieces of equipment used.
- In case of an in-pipe flow meter, provide a description of the calibrator/simulator used. If the calibration is performed at the manufacturer's facility, Permittee must provide the name of the facility, address, contact person for the manufacturer, and telephone number.
- Manufacturer's certified calibration curves or data, or recent laboratory curves or data, must be submitted for any manufactured flow metering device used to check the calibration of the flow monitoring system.
- **Comparison of the effluent flow monitoring system with incoming water meter readings is not acceptable as a valid calibration check.**

### **7. Corrective Measures:**

- All effluent flow monitoring systems must indicate, record, and totalize within  $\pm 5\%$  of the actual discharge flow rate. If the system does not perform within these limits, appropriate corrective action must be taken. Prior to any major system modifications, a description and plans, if necessary, of the proposed modifications shall be submitted to the District for approval. Any minor adjustments or parts replaced should be described in the report to the District.



## EFFLUENT FLOW METER CALIBRATION REPORT

Company Name: \_\_\_\_\_ Permit No.: \_\_\_\_\_

Discharge Address: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

### 1. Meter Location [Use Meter Location Form (page 3) to identify location]

a  b  c  d  Other: (Attach sketch)

### 2. Effluent Meter Description

#### Open Channel

#### A. Flume:

- Parshall Flume
- Palmer-Bowlus Flume
- Trapezoidal
- Other, Specify: \_\_\_\_\_

#### B. Weir.

- V-notch
- Rectangular
- Trapezoidal
- Other, Specify: \_\_\_\_\_

#### C. Other

Description: \_\_\_\_\_

#### In-line

- Magnetic
- Propeller
- Ultrasonic
- Other, Specify: \_\_\_\_\_

### 3. Flow Metering System Details

#### Primary Element

Size: \_\_\_\_\_

Manufacturer: \_\_\_\_\_

#### Secondary Element

Manufacturer: \_\_\_\_\_

Recorder's 100% span = \_\_\_\_\_ GPM

Totalizer Units: = \_\_\_\_\_ Gallons per Count

Sampling Signal Contact Closure Frequency: 1 closure per \_\_\_\_\_ gallons discharged.

### 4. Current Facility Wastewater Discharge Rate to Sewer Determined by Calibration Engineer

Average \_\_\_\_\_ GPM

Peak \_\_\_\_\_ GPM





## EFFLUENT FLOW METER CALIBRATION REPORT

### 5. Calibration Results

Type of Calibration:    Hydraulic                       Instrument

Calibration System		Existing Meter				Error	
Flow Rate GPM	Total Discharge Gallons	Primary Element's Head	Flow Rate GPM		Total Discharge Gallons	Recorder	Totalizer
			Indicator	Recorder			

A copy of all data collected and of any calculations performed must be attached to this form.

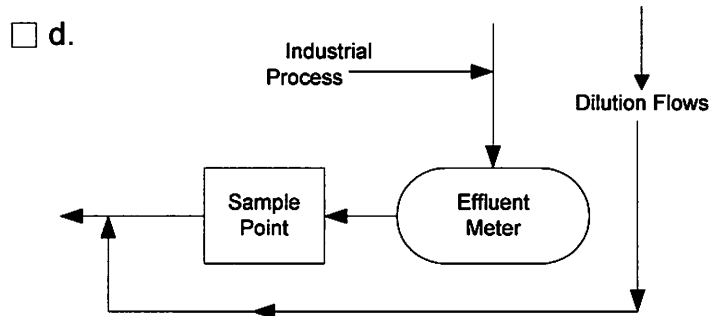
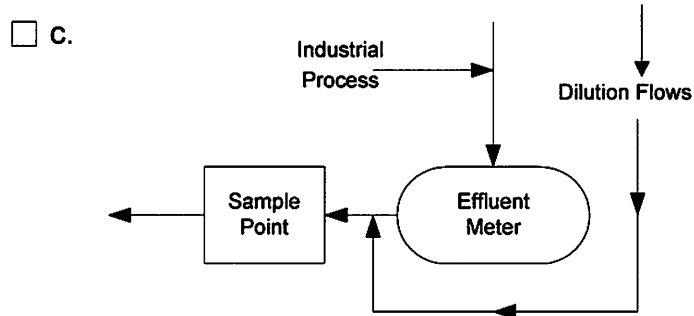
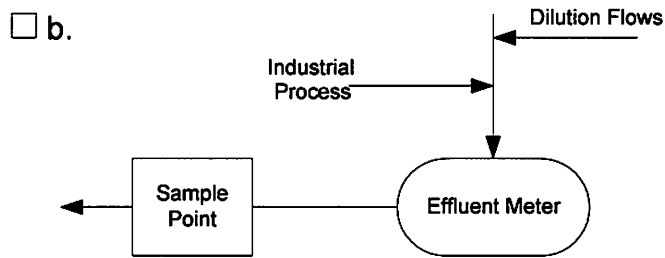
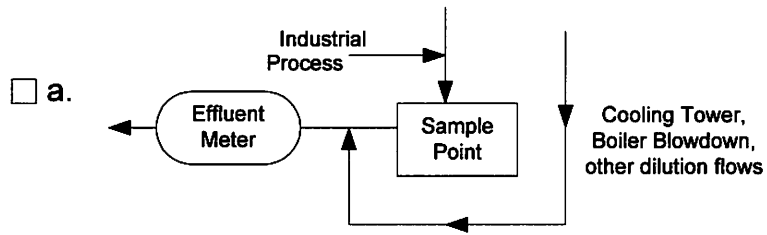
### 6. Method of Calibration *(attach additional sheets if necessary)*

Hydraulic: (For in line flow meters describe calibration/simulator system)

Instrument:

### 7. Corrective Measures (describe condition of flow meter prior to calibration and state if any adjustments were made):

# EFFLUENT FLOW METER LOCATION FORM



Other

Please provide a schematic of the location of the effluent flow meter



## EFFLUENT FLOW METER MAINTENANCE RECORDS

Company: \_\_\_\_\_ Permit No.: \_\_\_\_\_

Discharge Address: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Name of Responsible Person: \_\_\_\_\_ Telephone No. \_\_\_\_\_

Recorder's 100% Span: \_\_\_\_\_ GPM Totalizer: \_\_\_\_\_ Gallons per Count

Type of Flow Meter: \_\_\_\_\_

Recorder Chart Change Frequency:     Daily         Weekly         Monthly

REGULAR CLEANING MAINTENANCE				
Primary Element Cleaned	Level Meas. Equipment Cleaned	Other (describe)	Date	By



**CERTIFICATION OF CALIBRATION CHECK**

(Certification of Test Results by a California Registered Professional Engineer)

I hereby certify that I am knowledgeable in the field of wastewater flow measurement and that I have supervised the calibration of the flow monitoring system as described on the previous page, and also have reviewed and approved all details of the method of calibration. I consider the calibration method and procedures used to be technically sound, and assume professional responsibility for the validity and accuracy of the results reported.

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Full Name – Please Print or Type)

\_\_\_\_\_  
(Calif. Professional  
Engineering Cert. No.)

\_\_\_\_\_  
(Engineering Discipline)

\_\_\_\_\_  
(Date)

**CERTIFICATION OF TEST RESULTS BY  
AN ADMINISTRATIVE OFFICIAL OF THE COMPANY**

\_\_\_\_\_  
(Company Name)

\_\_\_\_\_  
(Permit No.)

I hereby certify that the flow monitoring system certified as properly calibrated above is so arranged and operated, so as to accurately measure and record the industrial wastewater flow to the sewer system.

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Full Name – Please Print or Type)

\_\_\_\_\_  
(Administrative Position in Company)

\_\_\_\_\_  
(Date)



**NOTIFICATION  
SLUG CONTROL PLAN  
NEW CLASS I (SIGNIFICANT INDUSTRIAL USER) PERMITS**

Date of Notification \_\_\_\_\_

Company Name: Remora Operating CA, LLC  
Permit No.: 58-1-192  
Issue Date: \_\_\_\_\_

---

Based on the conditions of your Wastewater Discharge Permit, and under the provisions of Section 403.B of the Orange County Sanitation District's (District) *Wastewater Discharge Regulations* (Ordinance) you are required to develop and implement an accidental discharge/slug control plan (Slug Control Plan). The attached provides information on slug discharges, the Slug Control Plan and what is required to fulfill the Orange County Sanitation District's (District) Slug Discharge Control program requirements.

Your facility Slug Control Plan submittal due date is: JAN 1, 2015

You are reminded that in accordance with Section 615 of the District's Ordinance, failure to meet the requirements and conditions of slug discharges and the Slug Discharge Plan, failure to provide information as requested by the District or failure to report slug discharges is subject to the civil and administrative penalties specified in the District's Ordinance.

If you have any questions, please call JANE TRAN at (714) 593-7441.



# ORANGE COUNTY SANITATION DISTRICT

## SLUG DISCHARGE CONTROL PROGRAM

### Slug Control Plan Requirements for New Class I (Significant Industrial User) Permits

In accordance with Section 40 CFR 403.8(f)(2)(v) of the General Pretreatment Standards, the Orange County Sanitation District (District) must evaluate each Significant Industrial User (SIU) to identify whether such a discharger needs a plan to control slug discharges. Under the provisions of Section 403.B of the District's *Wastewater Discharge Regulations* (Ordinance), the District may require any SIU to develop and implement an accidental discharge/slug control plan (Slug Control Plan). The following provides information on slug discharges, the Slug Control Plan and what is required to fulfill the District's Slug Discharge Control Program requirements.

#### WHAT IS A SLUG DISCHARGE?

A discharge to the sewer is considered to be a SLUG DISCHARGE if it is one of the following:

- non-routine (not part of the routine process or waste discharge procedures)
- episodic, one-time event (example: fire, earthquake, plant closure/modifications, or operational failures).
- a non-routine batch discharge of unusual volume or pollutant loading, which includes hazardous materials and those which violate a prohibition under 40 CFR 403.5(b), Special Prohibitions (for full text please see Attachment I).
- exceeds the prohibitions stated in Section 209 of the District's Ordinance.

#### WHY A SLUG CONTROL PLAN?

A Slug Control Plan is necessary to protect the sewers and District's wastewater treatment facilities from any **accidental or non-routine** discharges to the **sewer** during or after events, including, but not limited to, the following:

- accidental spills and leaks
- earthquakes
- fires
- facility modifications and/or closures
- operational failures
- equipment/plant start up

## **WHY A SLUG CONTROL PLAN?**

A Slug Control Plan is necessary to provide the facility and its employees with a plan and procedure to **prevent, contain and handle in a safe manner**, slug discharges to the sewer.

## **WHAT DOES A SLUG CONTROL PLAN CONTAIN?**

The Slug Control Plan is required to contain the following:

- procedure for notifying the District of slug discharges,
- slug discharge practices and procedures, including non-routine batch discharges,
- description of stored chemicals and materials,
- procedures to prevent adverse impact of slug discharges, including handling and transfer of materials, loading and unloading operations, inspection and maintenance of storage and process areas, control of site run-off to the sewer, worker training, procedures to contain spills and measures for emergency response.

## **DO YOU NEED A SLUG CONTROL PLAN?**

You must have a plan to prevent, control and contain slug discharges if you expect to have or may have one or more of the following conditions:

- during events such as those described above, you have a potential to discharge to the sewer,
- after the event you need or may need to dispose of the wastewater to the sewer,
- you store or handle within your facility and manufacturing process hazardous materials or any chemicals/materials which, if discharged directly or indirectly to the sewer, have the potential to cause any damage to or interference with the District's facilities or operation,
- you have the potential to discharge (during the events described above) a quantity of wastes or pollutants that exceed the discharge flow or pollutant load specified in your wastewater discharge permit.

## **MUST ALL SIUs DEVELOP A DISTRICT'S SLUG CONTROL PLAN?**

You DO NOT have to prepare a District's Slug Control Plan in two cases:

### **CASE 1**

If you can demonstrate to the District's satisfaction that during non-routine events such as fires, earthquakes, accidental spills, or facility closures, you DO NOT have the potential or need to discharge to the sewer, you are not required to have a District's Slug Control Plan.

### **CASE 2**

If your facility already has one or more hazardous substance emergency or spill response/contingency plans for federal, state or local administrative agencies, such as:

- Emergency Business Plan
- Emergency Response Plan
- Emergency Contingency Plan
- Risk Management and Prevention Plan
- Other equivalent federal or state plan

And if any one of the above plans contain:

- Procedure for notifying the District of slug discharges,
- Slug discharge practices and procedures, including non-routine batch discharges,
- Description of stored chemicals and materials,
- Procedures to prevent adverse impact of slug discharges, including handling and transfer of materials, loading and unloading operations, inspection and maintenance of storage and process areas, control of site run-off to the sewer, worker training, procedures to contain spills and measures for emergency response.

You can use one or more of the plans as a substitute to the District's Slug Control Plan.

## WHAT IS THE NEXT STEP?

Evaluate and determine if you have the potential or need to discharge to the sewer during or after non-routine events such as fires, earthquake, accidental spills and leaks, and plant closures. Based on your findings, you have the following options:

### **OPTION I**

If your evaluation determines that you do not have a potential or need to discharge to the sewer slug discharges during non-routine events;

1. COMPLETE AND SUBMIT FORM A, (BLUE FORM) **CERTIFICATION OF NO SLUG DISCHARGES**, TO CERTIFY THAT YOU DO NOT HAVE ANY CONDITIONS WHICH CAN CAUSE SLUG DISCHARGES TO THE SEWER.

**The statements in the certification are subject to the District's inspection and verification.**

2. COMPLETE FORM D AND SUBMIT A COPY WITH FORM A. POST FORM D THROUGHOUT YOUR FACILITIES AS INSTRUCTED IN FORM D.

**If, at any time in the future, modifications of your facility or process take place that will alter the conditions of Option I and Certificate, you are required to notify the District immediately and modify your Slug Control Plan submittals.**

### **OPTION II**

If you have the potential or need for slug discharges to the sewer and you have in place an Emergency Business Plan, or an Emergency Response Plan, or an Emergency Contingency Plan which provide the procedures and information required in the District's Slug Control Plan;

1. COMPLETE FORM B, (GREEN FORM) **CERTIFICATION OF EQUIVALENT SLUG CONTROL PLAN**, TO CERTIFY THAT YOUR FACILITY HAS ON FILE AND IS IMPLEMENTING AN EQUIVALENT PLAN TO PREVENT AND CONTAIN NON-ROUTINE DISCHARGES TO THE SEWER.

**The equivalent plans are subject to the District's review and verification and shall be made available to the District upon request.**

2. COMPLETE FORM D AND SUBMIT A COPY WITH FORM B. POST FORM D THROUGHOUT YOUR FACILITIES AS INSTRUCTED IN FORM D.

**OPTION III**

If your facility does not have an equivalent Slug Control Plan such as an Emergency Business Plan, Emergency Contingency Plan, Emergency Response Plan or other federal or state plan that contains the elements outlined in Form B;

1. YOU ARE REQUIRED TO PREPARE A DISTRICT'S SLUG CONTROL PLAN. You may satisfy the minimum requirements by completing the attached District's Slug Control Plan.

**DO NOT SEND THE PLAN TO THE DISTRICT. KEEP THE DISTRICT'S SLUG CONTROL PLAN ON FILE.  
THE SLUG CONTROL PLAN AND INFORMATION CONTAINED IN THE PLAN SHALL BE SUBJECT TO THE DISTRICT'S INSPECTION AND REVIEW.**

2. COMPLETE AND SUBMIT FORM C (YELLOW FORM), CERTIFICATION OF SLUG CONTROL PLAN ON FILE TO CERTIFY THAT YOU HAVE A DISTRICT'S SLUG CONTROL PLAN ON FILE AND ARE IMPLEMENTING IT.
3. COMPLETE FORM D AND SUBMIT A COPY WITH FORM C. DISPLAY FORM D THROUGHOUT YOUR FACILITIES AS INSTRUCTED IN FORM D.

**ARE THERE ANY EXEMPTIONS FROM CONTROLLING SLUG DISCHARGES?**

No. There are no exemptions from preventing, controlling and containing slug discharges to the sewer. Every facility must prevent and contain slug discharges to the sewer.



Roya Sohanaki,  
Engineering Supervisor



# ATTACHMENT I

40 CFR 403.5(b) Text

**40 CFR 403.5(b) Text**

***(b) Specific prohibitions. In addition, the following pollutants shall not be introduced into a POTW:***

***(1) Pollutants which create a fire or explosion hazard in the POTW, including, but not limited to, wastestreams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21.***

***(2) Pollutants which will cause corrosive structural damage to the POTW, but in no case Discharges with pH lower than 5.0, unless the works is specifically designed to accommodate such Discharges;***

***(3) Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW resulting in Interference;***

***(4) Any pollutant, including oxygen demanding pollutants (BOD, etc.) released in a Discharge at a flow rate and/or pollutant concentration which will cause Interference with the POTW.***

***(5) Heat in amounts which will inhibit biological activity in the POTW resulting in Interference, but in no case heat in such quantities that the temperature at the POTW Treatment Plant exceeds 40° C (104° F) unless the Approval Authority, upon request of the POTW, approves alternate temperature limits.***

***(6) Petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through;***

***(7) Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quality that may cause acute worker health and safety problems;***

***(8) Any trucked or hauled pollutants, except at discharge points designated by the POTW.***

# SLUG CONTROL PLAN

## Orange County Sanitation District

The information below provides a summary of options, requirements, and submittal dates which will enable you to fulfill the requirements of the Slug Control Plan.

### SUMMARY OF REQUIREMENTS

#### OPTION I

#### FORMS A & D

##### FORM A

- ☛ Complete, sign and mail to the District.

##### FORM D

- ☛ Complete, sign and mail to the District.
- ☛ Post throughout facility.

#### OPTION II

#### FORMS B & D

##### FORM B

- ☛ Complete, sign and mail to the District.

##### EMERGENCY OR SPILL RESPONSE PLANS - (i.e., Emergency Business Plan, Emergency Response Plan or Emergency Contingency Plan)

- ☛ Keep on file. DO NOT mail to the District.

##### FORM D

- ☛ Complete, sign and mail to the District.
- ☛ Post throughout facility.

#### OPTION III

#### FORMS C & D

##### FORM C

- ☛ Complete, sign and mail to the District.

##### DISTRICT'S SLUG CONTROL PLAN

- ☛ Prepare and implement the District's Control Plan.
- ☛ Keep on file. DO NOT mail to the District.

##### FORM D

- ☛ Complete and mail copy to the District.
- ☛ Post throughout facility.

# SLUG CONTROL PLAN

County Sanitation Districts of Orange County

Do you have potential or need for slug discharges?

YES  
 NO

NO **OPTION I**  
**(Blue)**

Submit FORM A and FORM D

Do you have an equivalent SLUG CONTROL PLAN? (e.g., Emergency Business Plan, Emergency Response Plan, Emergency Contingency Plan?)

YES  
 NO

YES **OPTION II**  
**(Green)**

Submit FORM B and FORM D

Develop and Implement CSDOC SLUG CONTROL PLAN  
Keep Plan on File

Submit FORM C and FORM D

NO **OPTION III**  
**(Yellow)**

# ORANGE COUNTY SANITATION DISTRICT

## FORM A

### CERTIFICATION OF NO SLUG DISCHARGES

The certification shall be signed by the facility/organization principal Executive Officer, General Manager, or equivalent responsible corporate officer. All the statements in this certification are subject to the Orange County Sanitation District's verification and inspection.

FACILITY NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

\_\_\_\_\_

TELEPHONE NUMBER: \_\_\_\_\_

PERMIT NUMBER: \_\_\_\_\_

I certify, under penalty of perjury under the laws of the State of California, that the above noted facility and operations do not have the potential or need to discharge slug loads to the sewer during emergencies or other nonroutine events such as, but not limited to, fires, earthquakes, plant closure or modifications, accidental spills, or operational/maintenance failures. I certify that I am personally acquainted with all the measures of containment and control of slug discharges and that the containment and control structures and equipment, and operating and maintenance procedures implemented at this facility are sufficient to prevent any slug discharges to the sewer. I, or my representative, is available to demonstrate and provide verification of this certification statement on request by the Orange County Sanitation District and its representatives.

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)



# ORANGE COUNTY SANITATION DISTRICT

## FORM B

### CERTIFICATION OF EQUIVALENT SLUG CONTROL PLAN

The certification shall be signed by the facility/organization principal Executive Officer, General Manager, or equivalent responsible corporate officer. All the statements in this certification are subject to the Orange County Sanitation District's verification and inspection.

FACILITY NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

TELEPHONE NUMBER: \_\_\_\_\_

PERMIT NUMBER: \_\_\_\_\_

I certify, under penalty of perjury under the laws of the State of California, that the above noted facility has the following emergency or spill containment/response plans in place and implemented at the site (check appropriate boxes)

- Emergency Business Plan
- Emergency Response Plan
- Emergency Contingency Plan
- Risk Management Plan
- Other federal or state plan

Name of Plan \_\_\_\_\_

For \_\_\_\_\_

*(Name of federal, state or local agency)*

and that the plan(s) reported above is current and contains at a minimum, a procedure for notifying the Orange County Sanitation District of slug discharges, slug discharge control and prevention practices and procedures (including non-routine batch discharges), description of stored chemicals and materials, and procedures to prevent adverse impact of slug discharges, including handling and transfer of materials, loading and unloading operations, inspection and maintenance of storage and process areas, control of site run-off to the sewer, worker training, procedures to contain spills, and measures for emergency response.



I further certify under penalty of perjury under the laws of the State of California that the information, provided in the plan(s) identified above, is to the best of my knowledge true and that the provisions of the plan(s) are being implemented as described. The plan(s) are on file and shall be made available to the Orange County Sanitation District and its representative for review and inspection whenever requested by the Orange County Sanitation District and/or its representative.

I further certify, under penalty of perjury under the laws of the State of California, that the spill containment and control equipment installed at this facility and slug control procedure being implemented under the provisions of the plan(s) noted above are sufficient to provide adequate protection to minimize the chance that a slug discharge will occur and cause damage to the District's collection system, upset treatment plant operations, or harm to human health and the environment.

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)



# ORANGE COUNTY SANITATION DISTRICT

## FORM C

### CERTIFICATION OF SLUG CONTROL PLAN

The certification shall be signed by the facility/organization principal Executive Officer, General Manager, or equivalent responsible corporate officer. All the statements in this certification are subject to the Orange County Sanitation District's verification and inspection.

FACILITY NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

TELEPHONE NUMBER: \_\_\_\_\_

PERMIT NUMBER: \_\_\_\_\_

I certify, under penalty of perjury under the laws of the State of California, that the above noted facility has a current Slug Control Plan and that the information provided in the document is to the best of my knowledge true and that the Slug Discharge Plan is being implemented as described. The Slug Control Plan is on file and shall be made available to the Orange County Sanitation District and its representative for review and inspection whenever requested by the Orange County Sanitation District and/or its representative.

I further certify, under penalty of perjury under the laws of the State of California, that the spill containment and control equipment installed at this facility and slug control procedure being implemented are sufficient to provide adequate protection to minimize the chance that a slug discharge will occur and cause damage to the Orange County Sanitation District's collection system, upset treatment plant operations, or harm to human health and the environment.

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)



## **ORANGE COUNTY SANITATION DISTRICT**

### **FORM D**

#### **SLUG DISCHARGE NOTIFICATION PROCEDURE**

All facilities must have instructions for the appropriate employees to follow proper notification procedures. Listing of numbers and instructions must be posted for easy access by employees.

1. Fill out Form D, attached.
2. Send a copy to the Orange County Sanitation District and retain the original.
3. POST information for easy access by employees. The information should be readily visible and legible.

Designated employees must receive instructions and be trained in these procedures.



**POST INSTRUCTIONS  
AND  
INFORM ALL PERSONNEL OF PROCEDURES**

During an event or incident that causes or may cause slug discharges due to spills, leaks, or other noncustomary batch discharges, including discharges which may violate the District's Ordinance, or the conditions of the SIU's Wastewater Discharge Permit, or prohibitions under 40 CFR 403.5(b), the permittee is required, under the provisions of Section 40 CFR 403.8(f)(2)(v) and section 501.3 of the District's Ordinance, to take the following actions:

1. Immediately telephone the District's Control Center at (714) 962-2411 and provide the information listed below:
  - Date and time of incident
  - Duration of incident
  - Flow rate or volume of spill
  - Entry-point to the sewer
  - Preventive action taken
  - Cause of the spill
  - Constituents of concern
  
2. Provide follow up written notification within five days from the time of the event or incident to include all the above items.



**ORANGE COUNTY SANITATION DISTRICT  
FORM D  
SLUG CONTROL PLAN**

Facility Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 \_\_\_\_\_

Wastewater Discharge Permit No: \_\_\_\_\_  
 Issued Date: \_\_\_\_\_  
 Expiration Date: \_\_\_\_\_

<b>Responsible Company Contact:</b>	_____
<b>Title:</b>	_____
<b>Work Phone Number:</b>	_____
<b>After Hours Phone Number:</b>	_____
<b>Emergency Company Contact:</b>	_____
<b>Title:</b>	_____
<b>Work Phone Number:</b>	_____
<b>After Hours Phone Number:</b>	_____
<b>Alternate Company Contact:</b>	_____
<b>Title:</b>	_____
<b>Work Phone Number:</b>	_____
<b>After Hours Phone Number:</b>	_____

**NOTIFICATION OF RESPONSE AGENCIES**

AGENCY	DEPARTMENT/NAME	24-HOUR EMERGENCY NUMBER
Orange County Sanitation District	Control Center	(714) 962-2411
Orange County Health Care Agency		
Orange County (or City) Fire Department		
Orange County Environmental Management Agency		
Regional Water Quality Control Board		
Southern California Air Quality Management District		
Others:		

*List locations where the above information is posted.*

1. \_\_\_\_\_
2. \_\_\_\_\_



# ORANGE COUNTY SANITATION DISTRICT

## SLUG CONTROL PLAN

### MINIMUM REQUIREMENTS

The following minimum requirements for a Slug Control Plan are in accordance with Section 40 CFR 403.8(f)(2)(v).

YOU MAY SATISFY THE MINIMUM REQUIREMENTS OF THE PLAN BY COMPLETING AND SUBMITTING THE ATTACHED SLUG CONTROL PLAN.

The Slug Control Plan is required to contain, as a minimum, the following elements:

- A. Identification and description of:
  - 1. Potential sources of wastestreams from accidental spills and line breakages or system-integrity failure during fires, earthquakes, facility closure, clean up, etc.
  - 2. Description and characterization of all chemicals and toxic materials that are being stored or handled at the facility.
  
- B. Provisions to prevent an adverse impact on the sewer system from accidental spills, fires, earthquakes, closure of facility or clean up activities. These provisions, as a minimum, must include the following:
  - 1. Structures and equipment to contain and handle accidental spills of chemicals and toxic materials;
  - 2. Equipment for emergency response;
  - 3. Routine inspection and maintenance of the following areas:
    - ▶ Chemical storage area,
    - ▶ Handling and transfer of chemicals and materials,
    - ▶ Loading and unloading of chemicals and materials operations,

- ▶ Structures or equipment containing chemicals or toxic materials.
- C. Worker training for emergency preparedness and response, handling of spills and leaks, proper and safe transfers and handling of chemicals or toxic materials to prevent spills and slug discharges;
- D. Procedures for emergency or nonroutine response in case of any accidental spills, fires, earthquakes, closure of facility, or any other incidents. The procedures, as a minimum, must contain the following:
1. Guidance to contain and handle spilled chemicals or toxic materials,
  2. Guidance for safety precautions and to prevent further exposure,
  3. Guidance for proper clean-up and disposal instructions, with preventive measures that avoid recurrence to the greatest possible extent.
  4. Listing of emergency telephone numbers to report spills, fires, closure of a facility, clean-up activities, and any nonroutine discharges to the sewer system or potential hazards to public health. As a minimum, a listing of governmental agencies with telephone numbers and their appropriate city should be included.

**YOU MAY SATISFY THE MINIMUM REQUIREMENTS OF THE PLAN  
BY COMPLETING AND SUBMITTING THE ATTACHED  
SLUG CONTROL PLAN**

MT:AR:cmc  
Revised 9/23/98 on

# SLUG CONTROL PLAN

<b>Facility Name:</b>
<b>Address:</b>
<b>Wastewater Discharge Permit No.</b> _____

**Complete Part A, B, C, & D Attached**

## PART A

### WASTE IDENTIFICATION AND CHARACTERIZATION

This part describes and identifies wastes and wastewater sources and disposal practices for routine and nonroutine conditions.

- **Routine conditions** describe normal, day-to-day operations, including batch discharges.
- **Nonroutine conditions** describe the emergency, accidental, or non-customary discharges.

***You may satisfy the requirements of this part by providing the information required in the following sections.***



**PART A (Continued)**

**1. STORED TOXIC MATERIALS AND CHEMICALS CHARACTERIZATION**

This part identifies and describes the toxic materials or chemicals which are used within routine and nonroutine processes and are being stored and handled on site. The identification of the chemicals must include the following:

- *Chemicals/Materials identification (the information may be obtained from analytical testing or MSDS forms).*
- *Location (use references to floor plan in Attachment A.2).*
- *Volume/weight (gallons, or pounds if dry material) or flow rate.*
- *Type of storage container (tank, drum, sump, etc.).*
- *Method of Disposal - Use code provided at the end of the table.*

CHEMICAL/ TOXIC MATERIAL	LOCATION	VOLUME/ WEIGHT FLOW RATE	TYPE OF STORAGE CONTAINER	METHOD OF DISPOSAL (USE CODE)

Method of Disposal: 1. Drained to Sewer 2. Recycled Offsite 3. Hauled Offsite  
4. Recycled Onsite

## **PART A (Continued)**

### **2. FACILITY FLOOR PLAN DIAGRAM**

Provide a floor diagram identifying location of equipment, storage facilities and other sources of chemicals and materials; floor drains, location of containment structures such as berms and dikes, and the location of trenches and sumps.

As a minimum requirement, the drawing shall be drawn to scale and shall show the following:

1. Map orientation or North arrow.
2. Name of company and address, drawing name and number, scale size, date drawn/revised, name of draftsman, name of person approving the drawings and approval signatures.
3. Legend for symbols used.
4. Layout of all tanks and equipment. Each process tank/equipment must be properly identified using the same reference used in Part 1A.
5. All floor drains, trenches and sinks, and where they are connected.
6. Spill prevention structures and/or equipment used to contain and prevent the discharge of spills and leaks or other slug discharges to the sewer.
7. Emergency equipment used to respond to an emergency condition during spills or slug discharge to the sewer.

***Attach Drawing(s)***

## PART B

### SLUG CONTROL PLAN PROVISIONS

This part identifies and describes the provisions implemented at the facility to prevent slug discharges to the sewer from accidental spills and leaks, fires, earthquakes, facility cleanup or closure, or any other event that may cause nonroutine slug discharges.

***You may satisfy the requirements of this part by providing the information required in the following sections.***

**PART B (Continued)**

**1. EMERGENCY RESPONSE EQUIPMENT**

Identify, describe, and show the location of available emergency equipment used to respond to an emergency condition during spills or slug discharges to the sewer. Show the location on the drawing in Attachment A.3 as necessary. Refer to the drawing location in the table.

<b>EQUIPMENT/ STRUCTURE</b>	<b>LOCATION (DRAWING REFERENCE)</b>	<b>DRAWING REFERENCE</b>	<b>FUNCTION</b>
<b>Communication Equipment</b>			
<b>Protective Clothing and Respirators</b>			
<b>First Aid Kits</b>			
<b>Decontamination Equipment</b>			
<b>Ventilation Equipment</b>			
<b>Emergency Containers</b>			
<b>Other</b>			

**PART B (Continued)**

**2. ROUTINE INSPECTION AND MAINTENANCE**

Identify and describe the inspection and maintenance schedule and procedure at the site to prevent spill and leaks or accidental discharges that result in slug discharges.

<b>AREA</b>	<b>SCHEDULE OF INSPECTION</b>	<b>DESCRIPTION</b>
<b>Chemical Storage Area</b>		
<b>Handling and Transfer of Materials Area and System</b>		
<b>Loading and Unloading of Chemicals Area</b>		
<b>Emergency Response Equipment</b>		
<b>Other (Describe)</b>		

**PART C**

**WORKER TRAINING**

Describe the worker training program for emergency preparedness and response; the handling of proper and safe transfer of chemicals to prevent spills and slug discharges.

<b>SUBJECT</b>	<b>SCHEDULE (FREQUENCY)</b>	
	<b>NEW EMPLOYEE</b>	<b>REFRESHER</b>

**PART D**

**PROCEDURES FOR EMERGENCY AND NONROUTINE RESPONSE**

This part describes in detail the procedures and guidelines the facility has developed and implemented to respond and report emergency and nonroutine incidents of spills, and other slug discharges due to fire, earthquakes, facility cleanup or closure, or any other incidents.

**1. PROVIDE PROCEDURE TO CONTAIN AND HANDLE SPILLED CHEMICALS OR TOXIC MATERIALS.**

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**PART D (Continued)**

**2.**

**SAFETY PRECAUTIONS**

Describe safety precautions which need to be taken based on the characteristics of spilled chemicals or materials, such as preventing contact between incompatible materials, steps to prevent further exposure, etc.

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**PART D (Continued)**

**3. CLEANUP, DISPOSAL, AND PREVENTIVE MEASURES**

Provide cleanup instructions and procedures, with preventive measures that avoid recurrence of the spill to the greatest possible extent. You may satisfy this requirement, by attaching here, the written procedures and instructions prepared for your facility.

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