



City of Morro Bay

955 Shasta Ave

Morro Bay, CA 93442

Phone: 805-772-6261 Fax: 805-772-6268

August 26, 2013

Mr. Ken Harris
Executive Officer
California Regional Water Quality Control Board
895 Aerovista Place, Suite 101
San Luis Obispo, CA 93401

Subject: Notice of submittal of application for the renewal of National Pollution Discharge Elimination System Permit No. CA0047881

Dear Mr. Harris,

The City of Morro Bay-Cayucos Wastewater Treatment Plant operates under the National Pollution Discharge Elimination System Permit (NPDES) No. CA0047881, Waste Discharge Requirements (WDR) Order No R3-2008-0065, due to expire on February 28, 2014. Staff at the City of Morro Bay has prepared the necessary forms for renewal of NPDES Permit No. CA0047881. The completed forms included in the application are:

- 1) Application/Report Of Waste Discharge General Information Form For Waste Discharge Requirements Or NPDES Permit.
- 2) Application Form 1- General Information Consolidated Permits Program
- 3) NPDES Form 2A Application Overview.

WDR No. R3-2008-0065 included a modified ocean discharge permit for total suspended solids (TSS) and biochemical oxygen demand (BOD). Per the City and Districts discussion with Regional Water Quality Control Board (RWQCB) staff, the City and District are applying for a full secondary discharge permit with interim effluent limits.

In December 2008, the City and District executed a Settlement Agreement with the RWQCB to upgrade the existing WWTP to eliminate the need for a 301(h) waiver-modified permit. According to the terms of the Settlement Agreement, the WWTP was to be upgraded so that all effluent is treated to at least secondary levels, phasing out the need for a modified discharge permit by March 2014. The Settlement Agreement contains a conversion schedule that outlines the upgrade process and includes certain milestones for achieving critical phases of the proposed upgrade project. On January 10, 2013, the CCC denied a Coastal Development Permit for the proposed upgrade project at the existing WWTP location.

ADMINISTRATION
595 Harbor Street

CITY ATTORNEY
595 Harbor Street

FINANCE DEPARTMENT
595 Harbor Street

FIRE DEPARTMENT
715 Harbor Street

HARBOR DEPARTMENT
1275 Embarcadero Road

POLICE DEPARTMENT
870 Morro Bay Boulevard

PUBLIC SERVICES
955 Shasta Avenue

RECREATION & PARKS
1001 Kennedy Way

The City and District have separately begun project planning based on each of their respective community values, for the planning, design, and construction of a new Water Reclamation Facility (WRF) or WWTP at an alternative location. This charts a path of site selection and other important community decisions that are needed to see the WRF project move forward successfully with input from both communities. The City's and District's goal is to bring these preliminary planning decisions together by the end of 2013. A more detailed discussion of the draft implementation schedule is included in the application packet (Section B.5 of Form 2A). Following approval of the preliminary planning decisions regarding location, level of reclamation and other details have been made by the City and District, the parties anticipate negotiating a new timeline under the Settlement Agreement with the RWQCB to outline the process for siting, planning, financing, designing, and constructing a new WRF.

The City and District request that the RWQCB revise the current effluent monitoring program to be consistent with other ocean dischargers of similar size with a full secondary permit. This would include a reduction in monitoring frequency, among other changes. These changes were recommended for the current permit in a letter from the City and District to the RWQCB dated July 9, 2010. That letter provided the quantitative and qualitative justification for monitoring changes based on statistical analyses that demonstrated there is no reasonable potential for exceedance of the permit limits. Monitoring data collected since 2010 further strengthen that conclusion. The original letter and associated analyses have been vetted by State Board staff member Steve Saiz. Lastly, because the new permit will not be a 301(h)-modified permit, federal requirements for the more-intensive monitoring that is conducted under the current permit do not apply.

The original and one copy of the application packet, are attached hereto and delivered this date.

If you have any questions or comments, please contact Bruce Keogh, at (805) 772-6272.

Sincerely,



Rob Livick
Public Services Director/ City Engineer

cc
Mr. Bruce Keogh
Wastewater Division Manager

Mr. Rick Koon
Cayucos Sanitary District
P.O. Box 333
Cayucos, CA 93430

Ms. Jane Diamond
Director, Water Division
U.S.EPA, Region 9
75 Hawthorne Street
San Francisco, CA 94105

Dr. Doug Coats
Marine Research Specialists
3140 Telegraph Road., Suite A
Ventura, CA 93003

FORM 1 GENERAL		U.S. ENVIRONMENTAL PROTECTION AGENCY GENERAL INFORMATION Consolidated Permits Program <i>(Read the "General Instructions" before starting.)</i>	I. EPA I.D. NUMBER CA0047881
LABEL ITEMS		PLEASE PLACE LABEL IN THIS SPACE	GENERAL INSTRUCTIONS If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.
I. EPA I.D. NUMBER			
III. FACILITY NAME			
V. FACILITY MAILING ADDRESS			
VI. FACILITY LOCATION			

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of **bold-faced terms**.

SPECIFIC QUESTIONS	Mark "X"			SPECIFIC QUESTIONS	Mark "X"		
	YES	NO	FORM ATTACHED		YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)	X		X	B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		X		D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)		X		F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY

c	1	SKIP	City of Morro Bay / Cayucos Sanitary District Wastewater Treatment Plant
15	16 - 28	30	69

IV. FACILITY CONTACT

A. NAME & TITLE (last, first, & title)		B. PHONE (area code & no.)	
c	2	Livick, Rob Public Services Director/ City Engineer	(805) 772-6261
15	16	45	46 48 49 51 52- 55

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX			
c	3	955 Shasta Avenue	
15	16	45	
B. CITY OR TOWN		C. STATE	D. ZIP CODE
c	4	Morro Bay	CA 93442
15	16	40 41 42	47 51

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER			
c	5	160 Atascadero Road	
15	16	45	
B. COUNTY NAME			
San Luis Obispo			
46	70		
C. CITY OR TOWN		D. STATE	E. ZIP CODE
c	6	Morro Bay	CA 93442
15	16	40 41 42	47 51 52 -54

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)													
A. FIRST					B. SECOND								
C	7	4	9	5	2	(specify) Sewerage System	C	7	4	5	9	3	(specify) Refuse System
15	16	17	18	19		15	16	17	18	19			
C. THIRD					D. FOURTH								
C	7					(specify)	C	7					(specify)
15	16	17	18	19		15	16	17	18	19			

VIII. OPERATOR INFORMATION												
A. NAME										B. Is the name listed in Item VIII-A also the owner? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
C	8	City of Morro Bay									55	56
15	16											

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box: if "Other," specify.)										D. PHONE (area code & no.)	
F = FEDERAL S = STATE P = PRIVATE					M = PUBLIC (other than federal or state) O = OTHER (specify)					A	
					M					(specify) (805) 772-6261	
					56					15 16 18 19 21 22 26	

E. STREET OR P.O. BOX									
955 Shasta									
26									

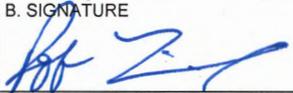
F. CITY OR TOWN										G. STATE		H. ZIP CODE		IX. INDIAN LAND	
B Morro Bay										CA		93442		Is the facility located on Indian lands? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
15 16										40 41		42 47 51		52	

X. EXISTING ENVIRONMENTAL PERMITS									
A. NPDES (Discharges to Surface Water)					D. PSD (Air Emissions from Proposed Sources)				
C	T	I	CA0047881		C	T	I		
9	N				9	P			
15	16	17	18	30	15	16	17	18	30
B. UIC (Underground Injection of Fluids)					E. OTHER (specify)				
C	T	I			C	T	I	(specify)	
9	U				9				
15	16	17	18	30	15	16	17	18	30
C. RCRA (Hazardous Wastes)					E. OTHER (specify)				
C	T	I			C	T	I	(specify)	
9	R				9				
15	16	17	18	30	15	16	17	18	30

XI. MAP
Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)
The City of Morro Bay and Cayucos Sanitary District (Dischargers), jointly own wastewater and disposal facilities operated by the City of Morro Bay. Each entity operates the collection system within its respective service area. The wastewater treatment plant is located on property jointly owned by the City of Morro Bay and Cayucos Sanitary District (T29S, R10E, Section 25, MDB&M). The treatment facilities provide treatment by a split-stream process of physical and biological treatment. All wastewater flows through primary sedimentation basins. A portion is then diverted through secondary treatment facilities including trickling filter, solids-contact, and secondary clarification. Secondary treated wastewater is then blended with primary-treated wastewater and disinfected by chlorination/ dechlorination prior to discharge to the Pacific Ocean. Biosolids are anaerobically digested and dried, composted, and then used as a soil conditioner. Treated municipal wastewater is discharged to the Pacific Ocean through a 4400 foot (1340m) outfall/diffuser system. The outfall terminates in the Pacific Ocean (35 23'11"N Latitude, 120 52'29" W Longitude) in approximately 50 feet (15M) of water, 2700 ft (827m) from shore. The current annual discharge rate is 1.10 million gallons per day. The map requested in item XI of this form is included as Item B.2 of Form 2A.

XIII. CERTIFICATION (see instructions)
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print) Rob Livick Public Services Director/City Eng.		B. SIGNATURE 		C. DATE SIGNED	
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COMMENTS FOR OFFICIAL USE ONLY										
C										
15	16								55	



**APPLICATION/REPORT OF WASTE DISCHARGE
GENERAL INFORMATION FORM FOR
WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT**



I. FACILITY INFORMATION

A. Facility:

Name: The City of Morro Bay - Cayucos Sanitary District Wastewater Treatment Plant			
Address: 160 Atascadero Road			
City: Morro Bay	County: San Luis Obispo	State: CA	Zip Code: 93442
Contact Person: Rob Livick, Public Works Director/ City Engineer		Telephone Number: 805 772 6261	

B. Facility Owner:

Name: City of Morro Bay - Cayucos Sanitary District			Owner Type (Check One)	
Address: 955 Shasta			1. <input type="checkbox"/> Individual	2. <input type="checkbox"/> Corporation
City: Morro Bay	State: CA	Zip Code: 93442	3. <input checked="" type="checkbox"/> Governmental Agency	4. <input type="checkbox"/> Partnership Agency
Contact Person: Rob Livick, Public Services Director/ City Engineer			5. <input type="checkbox"/> Other: _____	
		Telephone Number: 805 772 6261	Federal Tax ID:	

C. Facility Operator (The agency or business, not the person):

Name: City of Morro Bay			Operator Type (Check One)	
Address: 955 Shasta			1. <input type="checkbox"/> Individual	2. <input type="checkbox"/> Corporation
City: Morro Bay	State: CA	Zip Code: 93442	3. <input checked="" type="checkbox"/> Governmental Agency	4. <input type="checkbox"/> Partnership Agency
Contact Person: Rob Livick, Public Services Director/ City Engineer			5. <input type="checkbox"/> Other: _____	
		Telephone Number: 805 772 6261		

D. Owner of the Land:

Name: City of Morro Bay - Cayucos Sanitary District			Owner Type (Check One)	
Address: 955 Shasta			1. <input type="checkbox"/> Individual	2. <input type="checkbox"/> Corporation
City: Morro Bay	State: CA	Zip Code: 93442	3. <input checked="" type="checkbox"/> Governmental Agency	4. <input type="checkbox"/> Partnership Agency
Contact Person: Rob Livick, Public Works Director/ City Engineer			5. <input type="checkbox"/> Other: _____	
		Telephone Number: 805 772 6261		

E. Address Where Legal Notice May Be Served:

Address: 955 Shasta			
City: Morro Bay	State: CA	Zip Code: 93442	
Contact Person: Rob Livick, Public Services Director/ City Engineer		Telephone Number: 805 772 6261	

F. Billing Address:

Address: 955 Shasta			
City: Morro Bay	State: CA	Zip Code: 93442	
Contact Person: Rob Livick, Public Services Director/ City Engineer		Telephone Number: 805 772 6261	



**APPLICATION/REPORT OF WASTE DISCHARGE
GENERAL INFORMATION FORM FOR
WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT**



II. TYPE OF DISCHARGE

Check Type of Discharge(s) Described in this Application (A or B):

- A. WASTE DISCHARGE TO LAND B. WASTE DISCHARGE TO SURFACE WATER

Check all that apply:

- | | | |
|--|--|---|
| <input checked="" type="checkbox"/> Domestic/Municipal Wastewater Treatment and Disposal | <input type="checkbox"/> Animal Waste Solids | <input type="checkbox"/> Animal or Aquacultural Wastewater |
| <input type="checkbox"/> Cooling Water | <input type="checkbox"/> Land Treatment Unit | <input type="checkbox"/> Biosolids/Residual |
| <input type="checkbox"/> Mining | <input type="checkbox"/> Dredge Material Disposal | <input type="checkbox"/> Hazardous Waste (see instructions) |
| <input type="checkbox"/> Waste Pile | <input type="checkbox"/> Surface Impoundment | <input type="checkbox"/> Landfill (see instructions) |
| <input type="checkbox"/> Wastewater Reclamation | <input type="checkbox"/> Industrial Process Wastewater | <input type="checkbox"/> Storm Water |
| <input type="checkbox"/> Other, please describe: _____ | | |

III. LOCATION OF THE FACILITY

Describe the physical location of the facility.

1. Assessor's Parcel Number(s)
Facility: 066-001-034
Discharge Point: Estero Bay, Pacific C

2. Latitude
Facility: 35 22'46N
Discharge Point: 35 23'11"N

3. Longitude
Facility: 120 51'38"
Discharge Point: 120 52'59"W

IV. REASON FOR FILING

- | | |
|---|--|
| <input type="checkbox"/> New Discharge or Facility | <input type="checkbox"/> Changes in Ownership/Operator (see instructions) |
| <input type="checkbox"/> Change in Design or Operation | <input checked="" type="checkbox"/> Waste Discharge Requirements Update or NPDES Permit Reissuance |
| <input type="checkbox"/> Change in Quantity/Type of Discharge <input type="checkbox"/> Other: _____ | |

V. CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

Name of Lead Agency: City of Morro Bay

Has a public agency determined that the proposed project is exempt from CEQA? Yes No

If Yes, state the basis for the exemption and the name of the agency supplying the exemption on the line below.
Basis for Exemption/Agency: Renewal of permit is "Not a Project and Statutorily Exempt from CEQA"

Has a "Notice of Determination" been filed under CEQA? Yes No

If Yes, enclose a copy of the CEQA document, Environmental Impact Report, or Negative Declaration. If no, identify the expected type of CEQA document and expected date of completion.

Expected CEQA Documents:

<input type="checkbox"/> EIR	<input type="checkbox"/> Negative Declaration	Expected CEQA Completion Date: <u>N/A</u>
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CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY



State of California Regional Water Quality Control Board

APPLICATION/REPORT OF WASTE DISCHARGE GENERAL INFORMATION FORM FOR WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT



VI. OTHER REQUIRED INFORMATION

Please provide a COMPLETE characterization of your discharge. A complete characterization includes, but is not limited to, design and actual flows, a list of constituents and the discharge concentration of each constituent, a list of other appropriate waste discharge characteristics, a description and schematic drawing of all treatment processes, a description of any Best Management Practices (BMPs) used, and a description of disposal methods. Also include a site map showing the location of the facility and, if you are submitting this application for an NPDES permit, identify the surface water to which you propose to discharge. Please try to limit your maps to a scale of 1:24,000 (7.5' USGS Quadrangle) or a street map, if more appropriate.

VII. OTHER

Attach additional sheets to explain any responses which need clarification. List attachments with titles and dates below:

Blank lines for listing attachments with titles and dates.

You will be notified by a representative of the RWQCB within 30 days of receipt of your application. The notice will state if your application is complete or if there is additional information you must submit to complete your Application/Report of Waste Discharge, pursuant to Division 7, Section 13260 of the California Water Code.

VIII. CERTIFICATION

"I certify under penalty of law that this document, including all attachments and supplemental information, were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."
Print Name: Rob Livick Title: Public Services Director/City Engineer
Signature: [Handwritten Signature] Date: 8-26-2013

FOR OFFICE USE ONLY

Table with 4 columns: Date Form 200 Received, Letter to Discharger, Fee Amount Received, Check #.

CITY OF MORRO BAY

NOTICE OF EXEMPTION

TO: [X] San Luis Obispo Co. Clerk
County Government Center
San Luis Obispo CA 93401

FROM: City of Morro Bay
Public Services Department
590 Morro Bay Blvd
Morro Bay, CA 93442

[X] Office of Planning & Research
1400 Tenth Street
Sacramento, CA 95814

Project: Application for renewal of NPDES Permit

Project Location - Specific: Wastewater Treatment Plant, 160 Atascadero Road, Morro Bay 93442

Project Location - City: Morro Bay County: San Luis Obispo

Description of Project: Application to Regional Water Quality Control Board for an extension or renewal of the City's existing discharge permit (NPDES Permit #CA0047881) issued pursuant to Section 404 of the Federal Clean Water Act.

Name of Public Agency Approving the Project: EPA and the Central Coast Regional Water Quality Control Board

Name of Person or Agency Carrying Out Project: City of Morro Bay

Exempt Status: (Check One)

Reasons why project is exempt: The review and approval of Waste Discharge Permits by the State Water Resources Control Board or Regional Water Quality Control Boards is exempt from the CEQA requirement to prepare Negative Declarations and Environmental Impact Reports (EIRs), pursuant to State CEQA Guidelines Section 15263. (reference 13389)

[] Ministerial (Sec. 21080(b)(1); 15268); [] Categorical Exemption: Type and Section Number:

[] Declared Emergency (Sec. 21080(b)(3); 15269(a))

[] Declared Emergency (Sec. 21080(b)(3); 15269(a)) [X] Statutory Exemption Code No. Section 15263.

Lead Agency: City of Morro Bay

Contact Person: Kathleen Wold, Planning Manager Telephone: (805) 772-6211

Has a Notice of Exemption been filed by the public agency approving the project? [] Yes [X] No

Certification:

I hereby certify that the public agency has made the above finding and that the project is categorically exempt from CEQA.

[Handwritten signature]

Signature

Title: Planning Manager

Date: July 26, 2013

SECTION VI – OTHER REQUIRED INFORMATION

Per Section VI Other Required Information of the Application/Report of Waste Discharge the following information is provided to provide a complete characterization of the discharge for the Morro Bay-Cayucos Wastewater Treatment Plant. Additional information on the MBCSD facility is available through CIWQS, and includes monthly, quarterly, semi-annual, and annual reporting data as required by the NPDES discharge permit issued to the City of Morro Bay and Cayucos Sanitary District in January 2009 (RWQCB-USEPA 2009). Additional information on the results of effluent testing is also included in NPDES Form 2a which is included with this application packet.

Communities Served and Design and Actual Flow Rates

The Morro Bay/Cayucos Wastewater Treatment Plant (WWTP) is publicly owned and operated by the City of Morro Bay and the Cayucos Sanitary District (MBCSD). The WWTP is located in the City of Morro Bay, within San Luis Obispo County. The plant serves the Morro Bay and Cayucos communities, which, according to the 2010 census, have a combined population of approximately 12,835 (10,243 in Morro Bay and 2,592 in Cayucos). The WWTP discharged, on average, 1.10 million gallons per day (MGD) during 2012. The plant was designed to accommodate an average dry-weather flow of 2.06 MGD, a peak seasonal dry-weather flow (PSDF) of 2.36 MGD, and a peak wet-weather flow (PWWF) of 6.64 MGD.

Description of the Treatment Process and Outfall

The design data for the WWTP operating characteristics are listed in attachment 1. All wastewater is treated through a primary treatment process, which includes screening, grit removal, and primary sedimentation, as shown in the attached process flow schematic, attachment 2. Typically, a portion of the flow is diverted for an additional secondary-treatment process using biofilters, a solids-contact chamber, and a secondary clarifier. The secondary process consists of parallel single-stage, high-rate, trickling filters whose combined outflow goes to a solids contact channel and then to a secondary sedimentation tank. When flows exceed 1 MGD, secondary-treated effluent can be subsequently blended with primary-treated effluent, before the entire blend is chlorinated for disinfection and then dechlorinated. The disinfected and dechlorinated effluent is discharged into Estero Bay through a 4,400-ft (1,341-m) outfall terminating in a multi-port diffuser system. Waste biosolids are anaerobically digested, dried, composted and used as soil conditioner and fertilizer. A schematic of the biosolids process is included on page 4.

The location of the Morro Bay-Cayucos WWTP and outfall within Estero Bay is shown on the attached topographic map, attachment 3. The discharge is released into unstressed, open-ocean waters at 35°23'11"N latitude and 120°52'29"W longitude. Treated effluent flows through a 27-in (0.69-m) diameter outfall that extends approximately 4,400 ft (1,341 m) in a northwesterly direction. The outfall terminates in a multi-port diffuser approximately 2,700 ft (827 m) from shore. The 170-ft (51.8 m) long diffuser lies at a water depth of 50 ft (15.2 m), measured relative to the mean lower low-water (MLLW) datum. Twenty-eight of the 34 available diffuser ports are currently open. The remaining 6 ports can be made operational if the sustained discharge exceeds 6.60 MGD.

Monthly wastewater characterizations documented a number of different aspects of the treatment plant's performance in 2012, please see the Tables below. Removal rates quantified the plant's ability to reduce major organic constituents within the wastestream. Effluent concentrations characterized the overall quality of effluent discharged through the ocean outfall, while mass emissions quantified the cumulative load of wastewater constituents introduced into the marine environment.

Month	Flow (MGD)	Suspended Solids				Biochemical Oxygen Demand			
		Influent (mg/L)	Effluent (mg/L)	Removal (percent)	Emission (kg/day)	Influent (mg/L)	Effluent (mg/L)	Removal (percent)	Emission (kg/day)
January	1.111	287	26	91.5	109	277	57	78.3	235
February	1.051	341	25	93.3	99	273	58	79.0	217
March	1.096	471	23	94.9	95	334	47	85.9	191
April	1.184	308	27	90.4	121	251	45	76.7	225
May	1.077	386	31	90.8	122	328	64	78.5	247
June	1.337	408	28	93.7	136	348	60	82.9	318
July	1.516	393	26	92.7	149	312	52	84.3	283
August	1.108	392	28	93.6	116	354	48	86.5	207
September	0.939	411	23	94.1	79	350	40	88.4	133
October	0.897	436	32	92.4	108	384	46	87.8	161
November	0.896	353	28	93.2	95	338	42	87.7	145
December	0.955	329	27	89.6	98	302	42	85.9	158
Average	1.098	379	27	92.5	111	322	50	83.5	210
Monthly Limitation	≤2.36¹		≤70	≥75.0	≤546		≤120	≥30.0	≤936
Annual Total (MT)					41				77
Nominal Annual (MT/year)					≤199				≤342

Month	pH		Turbidity (NTU)	Settleable Solids (ml/L)	Median ² Total Coliform (MPN/100ml)	Oil and Grease		
	Influent	Effluent				Influent (mg/L)	Effluent (mg/L)	Emission (kg/day)
January	7.8	7.5	25	<0.1 ³	<2	140	≈3.6 ⁴	22
February	7.9	7.6	23	<0.1	<2	43	≈3.7	14
March	7.8	7.6	23	<0.1	<2	100	≈3.7	17
April	7.8	7.5	26	<0.1	<2	97	5.5	23
May	7.8	7.5	28	<0.1	<2	130	6.2	24
June	7.9	7.6	24	<0.1	<2	63	≈4.9	25
July	7.9	7.6	34	<0.1	<2	120	6.2	33
August	7.9	7.6	30	<0.1	<2	37	5.9	24
September	7.8	7.6	22	<0.1	<2	56	5.5	17
October	7.9	7.6	28	<0.1	<2	99	≈4.0	15
November	7.9	7.7	28	<0.1	<2	110	≈4.9	16
December	7.9	7.6	26	<0.1	<2	93	≈4.1	15
Average	7.9	7.6	26	<0.1	<2	91	5.0	21
Monthly Limitation		6-9	≤75	≤1.0	≤23		≤25.0	≤195

² Computed from samples collected in the 30 days prior to the last day of the month (MBCSD 1997a).

³ The “less-than” symbol (<) indicates that the substance was not detected at a concentration above the method detection limit (MDL), which is listed after the “<” symbol.

⁴ The monthly median O&G concentration is used to evaluate plant performance because it provides a more robust measure of central tendency when one or more individual concentrations are not reliably quantified (see Section IV.C.8.C of the COP). The “approximation” symbol (≈) indicates that the median concentration for the month was also too low to be reliably quantified; namely, it was below the PQL. Compliance with the monthly O&G limitation is evaluated in Discharge Monitoring Reports (DMRs) using an arithmetic-average where unquantifiable concentrations are treated as zero (see Item Numbers 15 and 23 in SWRCB 2006).

In addition to the effluent properties and bioassay results described above, there are 78 chemical properties that are regulated by the California Ocean Plan (COP) whose effluent concentrations are limited in the discharge permit. Effluent composite samples were analyzed in January and July 2012 for the presence of these chemical compounds, which include trace metals, chlorinated and nonchlorinated phenolic compounds, volatile organic compounds, organochlorine pesticides, PCBs, cyanide, base-neutral compounds, and radionuclides (see Table below). The COP regulates the discharge of these compounds for the protection of marine life and the protection of human health from exposure to both carcinogenic and noncarcinogenic substances.

Chemical Compounds Detected within Effluent Samples

Compound	Concentration ($\mu\text{g/L}$)			Mass Emission (kg/yr)	
	Limit	January	July	Goal	Measured
Protection of Marine Aquatic Life					
Arsenic	670.	<0.61 ⁵	\approx 1.1 ⁶	17.	<1.29
Chromium VI	270.	<1.	\approx 1.8	93.	<2.11
Copper	140.	20.	15.	690.	26.8
Lead	270.	0.65⁷	1.3	465	1.5
Nickel	670.	\approx 3.5	\approx 3.2	142.	\approx 5.10
Selenium	2,010.	\approx 1.9	\approx 1.3	65.	\approx 2.45
Zinc	1,620.	59.	45.³	244.	79.5
Cyanide	130.	16.	49.	71.	48.6
Radionuclides (pCi/L) β	50.	— ⁸	16.0	—	—
Protection of Human Health (Non-Carcinogens)					
Chromium III	25,500,000.	<1.	\approx 1.8	—	<2.11
Toluene	11,400,000.	—	\approx 0.12	4.	\approx 0.18
Protection of Human Health (Carcinogens)					
Chloroform	17,400.	—	\approx 0.87 ⁹	5.	\approx 1.32
Halomethanes	17,400.	—	\approx 0.25	25.	\approx 0.38
Dioxin (pg/L)	0.52	—	0.052	1.48 mg	0.08 mg

The chemical assays found only six of the 78 chemical compounds present in quantifiable amounts within the 2012 effluent samples.¹⁰ The measured concentrations for all six compounds were significantly less than the permitted limits. Annual mass emissions of these compounds also met the goals in the discharge permit's reporting provisions. The compounds with quantifiable concentrations included three trace metals (copper, lead, and zinc), a radionuclide, cyanide, and low-level congeners of dioxin.

⁵ A "less-than" symbol (<) indicates that the substance was not detected at a concentration above the MDL, which is listed after the "<" symbol.

⁶ The "approximation" symbol (\approx) indicates that the detected concentration was too low to be reliably quantified, namely, it was below the Minimum Level (ML). Consequently, the number listed after the symbol represents an estimated concentration. Accurately quantified concentrations are indicated by bold typeface.

⁷ The reported concentration was below the practical quantification limit (PQL) and was flagged "as estimated" by the chemistry laboratory. However, in accordance with the guidance from the COP and the NPDES permit, the reported value is listed "as measured" herein, because the value exceeded the ML.

⁸ The "dash" symbol (—) indicates that analysis of the compound was not required as part of the monitoring program, or that a mass-emission goal was not specified in the discharge permit.

⁹ The reported concentration was above the PQL and accordingly, was not flagged "as estimated" by the chemistry laboratory. However, in accordance with the guidance from the COP, the reported value is listed here as an estimated concentration because the measured value was below the minimum limit (ML).

¹⁰ Quantifiable concentrations of the six compounds are listed in bold typeface in Table 2.5.

The analyses also detected eight additional compounds in the semiannual effluent samples, but at concentrations that were too low for reliable quantification. Specifically, the concentrations of these compounds were higher than the method detection limit (MDL)¹¹ but less than the minimum level (ML). Reporting of these detected-but-not-quantified concentrations is required under the current NPDES discharge permit; although, they are not compared to effluent limitations for compliance assessments.

For additional information on all of the constituent analyzed as a component of the Monitoring and Reporting Program list of the constituents and the discharge concentration of each constituent please see NPDES Form 2A Sections A.12 (page 6), B.6 (page 8), Part D (pages 10 – 14), and Part E (pages 15 – 17).

Biosolids

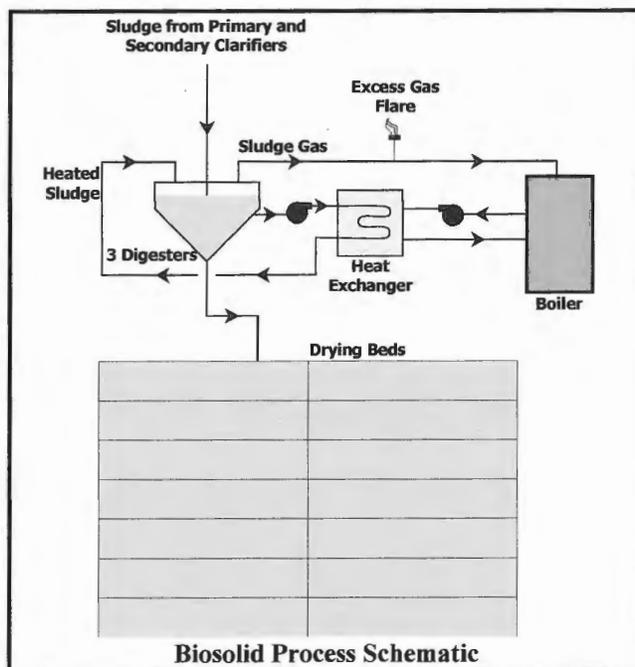
This section describes the treatment process for solids generated by the WWTP. The discussion also addresses the major compounds within the biosolids produced by the plant, because they determine the suitability of biosolids for future composting and land application.

Solids Treatment Process

Solids removed by the primary clarifiers were processed as shown in the adjoining schematic. Sludge was stabilized using two mixed-primary digesters heated to 97°F (36°C). Heated sludge was then transferred to a secondary digester with heat exchange from the primary digesters. Solids settled in the secondary digester and the supernate was returned to the wastewater treatment process. The primary digesters' capacities are 192,000 gallons and 170,544 gallons, and the secondary digester's capacity is 166,000 gallons, giving a total capacity of 528,000 gallons (2 megaL). For the calendar year 2012, the clarifiers pumped an average of 9,250 gallons of sludge per day to the primary digesters. Average detention times based were 57 days. Digester temperature and flow were recorded daily.

Stabilized sludge drawn from the secondary digester was transferred to one of 12 sludge-drying beds. Each of these 5,200 ft² (483 m²) beds had an under-drain and decanting system that recirculated runoff through the treatment process. Twelve to 14 inches (33 cm) of sludge were applied to the beds. Drying times typically range from two to four months depending on the weather conditions. Once dried, the biosolids are removed from the beds and stored in a concrete containment area. Biosolids are stored in this area until they are removed from the WWTP for composting and eventual use as a soil amendment. Biosolids storage times are generally less than one year.

For the calendar year 2012, the treatment plant sent a total of 109.2 dry metric tons of stored, dried biosolids to the 162-acre San Joaquin Composting Facility (SJCF) owned by McCarthy Family Farms, Inc. The SJCF is located in Kern County, California, and operates under Solid Waste Facility Permit No. 15-AA-0287 (Permit Resolution No. 1999-96 adopted by the California Integrated Waste Management Board). The SJCF uses windrow and aerated static pile composting to further reduce pathogens and limit



¹¹ The method detection limit is the lowest concentration that can be reported under ideal conditions, when the sample contains only the compound of interest in a concentration within an optimal calibration range and within a medium that does not interfere with the performance of the analytical instrument.

vector attraction. Prior to shipping biosolids to the SJCF, the MBCSD provides a Class-B biosolids certification statement based on chemical analyses performed on biosolids samples collected at the treatment plant.

In previous years, a significant portion of the biosolids generated by the WWTP process, rather than being shipped offsite, was composted on-site and made available to the local public for use as a high-quality soil amendment. This successful beneficial-reuse program, developed by WWTP personnel and operated over the past decade, utilized a windrow composting similar to that of the SJCF. The program produced exceptional-quality (EQ) compost that met the Federal and State Class-A standards for low metal concentrations, pathogen reduction, and vector-attraction reduction. Due to the planned upgrades to the WWTP facility, however, the on-site biosolids composting operation was discontinued in late 2010 with the final composting completed in April 2011.

Chemical Compounds

In compliance with the Monitoring and Reporting Program, chemical analyses were conducted on a composite of biosolids samples collected from the drying beds on 19 September 2012. Those beds contained biosolids that were ready for shipment from the WWTP at the time. The laboratory results are compared with regulatory limits in the table below.

The data in the table below shows that biosolids contaminant concentrations were significantly less than regulatory criteria that would designate them as hazardous or limit their use for land application or composting. The analyses tested for the presence of more than 150 potential contaminants and measured seven other properties and nutrients within the biosolids sample. Nevertheless, only a few compounds were detected, primarily naturally-occurring trace metals.

All trace-metal concentrations were below the total threshold limit concentrations (TTLC) that would designate the biosolids as hazardous. One metal, copper, had a bulk wet-weight concentration that exceeded 10-times the soluble threshold limit concentration (STLC). Accordingly, a waste extraction test (WET) assessed its water solubility. This elutriate test demonstrated that the copper within the biosolids sample had very low solubility with a 5.0-mg/L dissolved concentration that was five-times lower than the 25-mg/L STLC level where leaching into groundwater may be of concern. The low solubility shows that the copper was tightly bound into a mineral matrix, with little bioavailability.

In addition to trace metals, one organic compound was detected at quantifiable concentrations within the biosolids sample: bis (2-ethylhexyl) phthalate (DEHP). DEHP is added to plastic resins to soften them. DEHP has been consistently detected at low levels in effluent and biosolids samples collected throughout the past decade. Because of its mobility, high vapor pressure, and the massive scale of its production, DEHP has become pervasive in the environment. There are no limits on this compound in state and federal regulations governing biosolids.

The other compounds listed in the Table further characterize the biosolids, as required in the waste discharge requirements. Additionally, a modified WET test (STLC) for total dissolved solids was conducted in response to a request from the composter.

Comparison between Measured Biosolid Concentrations and State and Federal Limits

Constituent	Units	Wet Weight				Dry Weight		
		Measured		Limit		Measured	Limit	
		Bulk	WET ¹	STLC ²	TTLC ³	Bulk	Monthly ⁴	Ceiling ⁵
Solids	%	91.1	— ⁶	—	—	—	—	—
Cyanide	ppm	1.9	—	—	—	2.1	—	—
Antimony	ppm	≈1.7 ⁷	—	15.	500.	≈1.9	—	—
Arsenic	ppm	4.8	—	5.	500.	5.3	41.	75.
Barium	ppm	390.	—	100.	10,000.	430.	—	—
Beryllium	ppm	≈0.12	—	0.75	75.	≈0.14	—	—
Boron	ppm	19.	—	—	—	21.	—	—
Cadmium	ppm	2.6	—	1.	100.	2.8	39.	85.
Chromium (Total)	ppm	39.	—	560.	2500.	43.	—	—
Chromium (Hexavalent)	ppm	<0.30 ⁸	<0.07	5.	500.	<0.36	—	—
Cobalt	ppm	3.7	—	80.	8,000.	4.1	1,500.	4,300.
Copper	ppm	480. ⁹	5.0	25.	2,500.	530.	1,500.	4,300.
Lead	ppm	33.	—	5.	1,000.	37.	300.	840.
Mercury	ppm	0.98	—	0.20	20.	1.1	17.	57.
Molybdenum	ppm	17.	—	350.	3,500.	19.	—	—
Nickel	ppm	34.	—	20.	2,000.	37.	420.	420.
Selenium	ppm	5.9	—	1.	100.	6.5	100.	100.
Silver	ppm	3.0	—	5.	500.	3.3	—	—
Thallium	ppm	<0.73	—	7.	700.	<0.80	—	—
Vanadium	ppm	22.	—	24.	2,400.	24.	—	—
Zinc	ppm	1,000.	—	250.	5,000.	1,100.	2,800.	7,500.
Bis(2-ethylhexyl) phthalate	ppm	28.	—	—	—	31.	—	—
Hydrogen-Ion	pH	6.32	—	—	—	—	—	—
Phosphate	ppm	68,000.	—	—	—	75,000.	—	—
Ammonia	ppm	6,500.	—	—	—	7,100.	—	—
TKN	ppm	32,000.	—	—	—	36,000.	—	—
Organic Nitrogen	ppm	25,500.	—	—	—	28,900.	—	—
Nitrate as NO ₃	ppm	310.	—	—	—	340.	—	—
Oil & Grease	ppm	44,000.	—	—	—	49,000.	—	—
Total Dissolve Solids	ppm	—	5,500.	—	—	—	—	—

- ¹ Waste Extraction Tests (WET) measure the soluble leachate or the extractable amount of a substance contained within a bulk sample of biosolids. A WET is indicated if the bulk wet-weight concentration of a contaminant exceeds 10 times the STLC.
- ² Soluble Threshold Limit Concentrations (STLC) apply to the measured concentration in the liquid extract from a biosolid sample, as determined by a WET. Biosolids with leachate concentrations exceeding the STLC are classified as hazardous in the State of California, as described in the California Code of Regulations (CCR 2003).
- ³ Total Threshold Limit Concentrations (TTLC) apply to the total wet-weight concentration of a contaminant within a bulk biosolid sample consisting of the entire millable solid matrix, rather than just the leachate. Biosolids are designated as hazardous wastes in the State of California if measured bulk concentrations exceed the TTLC, as described in the CCR (2003).
- ⁴ Federally mandated dry-weight limits imposed on biosolids suitable for application on agricultural land apply to monthly average concentrations as defined in Table 3 of the Code of Federal Regulations (USGPO 1997b). [40 CFR §503.13(b)(1)].
- ⁵ Federally mandated dry-weight ceiling concentrations above which biosolids are considered hazardous waste as defined in Table 1 USGPO (1997b).
- ⁶ “—” indicates that the measurement was not required or its limit was not specified.
- ⁷ Concentrations preceded by an “approximation” symbol (≈) were too low to be reliably quantified and represent estimated concentrations because they were reported below the minimum level (ML) but above the method detection limit (MDL).
- ⁸ A “less-than” symbol (<) indicates that the substance was not detected at a concentration above the MDL, which is listed after the “<” symbol.
- ⁹ Bulk concentrations shown in bold were greater than 10 times the STLC and a WET was conducted.

Best Management Practices

Pollution Prevention Program

The MBCSD's Pollution Prevention Program aims to minimize the introduction of incompatible contaminants, such as pollutants and pesticides, into the treatment process. The MBCSD utilizes online and written literature as well as direct communication through presentations, talks, and plant tours in order to educate consumers and local businesses about the organization and operation of the treatment plant; best management practices (BMPs); and techniques for the proper disposal of a variety of household wastes. The City's website includes a series of pages devoted to an overview of the wastewater treatment plant and collection-system operations. The web pages contain pertinent information on current topics of interest, including: the status and history of the pending treatment plant upgrade, collection system do's and don'ts, the onsite household hazardous waste facility, the County's pharmaceutical take-back program, *Toxoplasma* and cat litter disposal, and residential stormwater tips. The City's website incorporates updated information on BMPs for cat litter disposal and avoiding its introduction into the collection system.

Household Hazardous Waste Collection Facility

Other public outreach endeavors by the MBCSD include its involvement in the collection of household hazardous and pharmaceutical wastes. For example, beginning in August 2000 the MBCSD partnered with the Integrated Waste Management Authority to establish a permanent household hazardous-waste collection facility at the treatment plant. The WWTP offers free waste disposal to all residents of San Luis Obispo County every Saturday from 11:00 a.m. to 3:00 p.m., except holiday weekends.

Attachment # 1

Plant Design Data

DESIGN DATA

PLANT CAPACITY

Flow, mgd	
Average dry weather flow (ADWF)	2.06
Peak seasonal dry weather flow (PSDF)	2.36
Peak dry weather flow (PDWF)	6.64
Peak wet weather flow (PWWF)	6.60
Strength	
Biochemical oxygen demand (BOD ₅), mg/l	280
Suspended solids (SS), mg/l	280

PRELIMINARY TREATMENT

Mechanically cleaned bar screen	
Number	1
Capacity, mgd	8.2
Manually cleaned bar screen	
Number	1
Capacity, mgd	8.2
Influent pumps (variable speed)	
Number	3
Capacity, each, mgd	3.3
Total head, feet	31.6
Aerated grit removal tank	
Length, feet	30
Width, feet	16
Depth, feet	8
Detention time at PWWF, minutes	6.3

PRIMARY TREATMENT

Sedimentation tanks (existing)	
Number	2
Diameter, feet	
Tank 1	50
Tank 2	40
Average side water depth, feet	9
Surface loading rate at PSDWF, gal/sq. ft./day	730

TRICKLING FILTERS (in partial secondary treatment mode of operation)

Flow Distribution at PSDWF, mgd	
Filter 1	0.39
Filter 2	0.58
Diameter, feet	
Filter 1	60
Filter 2	70
Net media surface area, sq. ft.	
Filter 1	2,820
Filter 2	3,770
Average media height, feet	
Filter 1	4.5
Filter 2	5.0
Specific organic loading rate, lb BOD ₅ /day/1,000 cu. ft. media	47
Hydraulic loading rate, gpm/sq. ft. media surface	
Filter 1	0.34
Filter 2	0.38

SOLIDS CONTACT CHANNEL

Channel length, feet	
Reaeration portion	25
Contact portion	25
Channel depth, feet	4
Recirculated sludge flow, gpm	
Minimum	100
Maximum	500
Interstage pumps	
Number	2
Capacity, each, gpm	2,300
Total head, feet	270

SECONDARY SEDIMENTATION TANK

Diameter, feet	55
Tank surface area, sq. ft.	2,376
Tank volume, cu. ft.	35,640
Average water depth, feet	15
Overflow rate at PSDWF gal/sq. ft./day	408

TOTAL TREATMENT

Overall treatment efficiencies, percent	
BOD ₅ removal	57
SS removal	75
Expected effluent quality, mg/l	
BOD ₅	120
SS	70

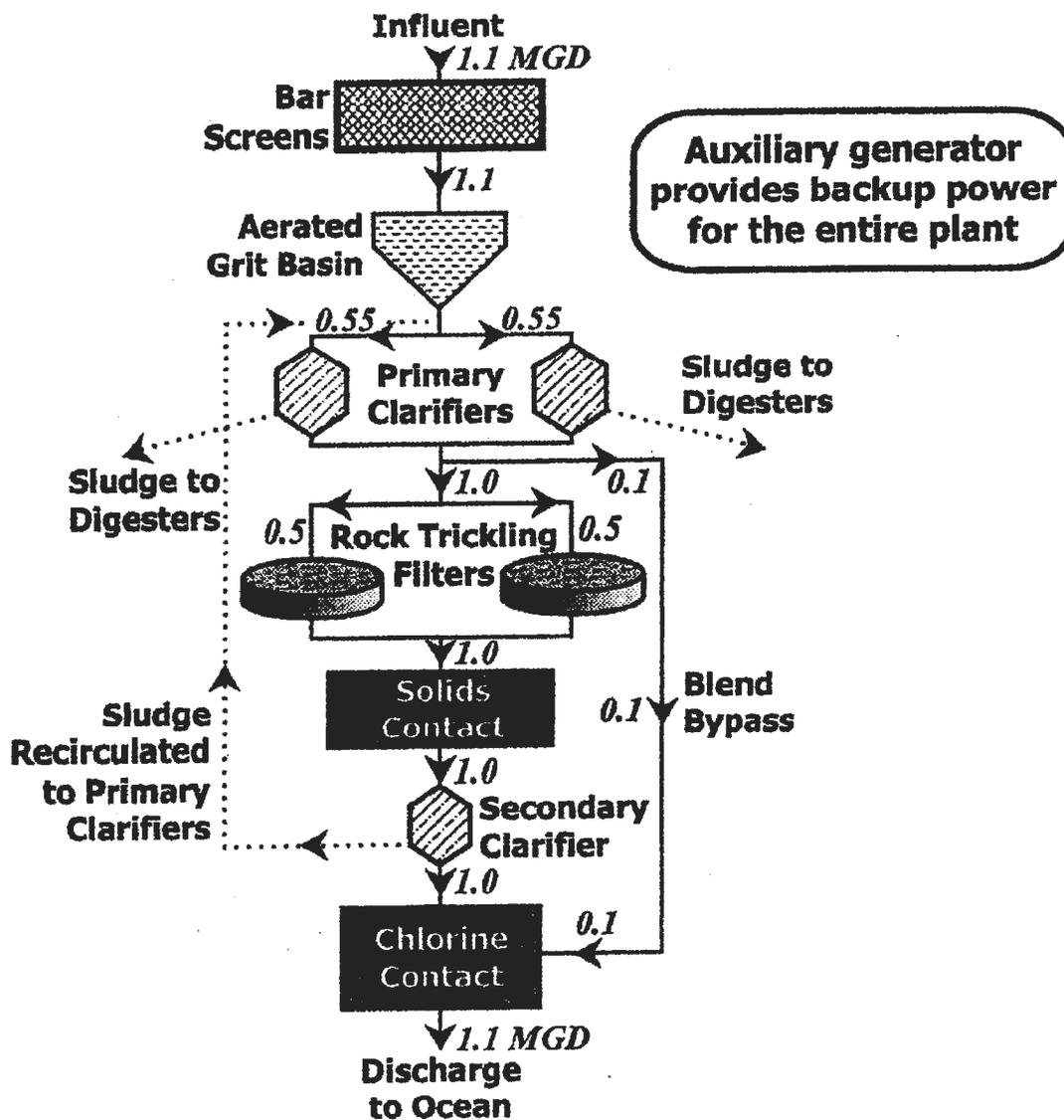
SOLIDS STABILIZATION

Anaerobic digesters	
Loading, 1,000 lb/day	
Primary solids	3.58
Secondary solids	0.88
Assumed sludge volatile content, percent	
Primary solids	70
Secondary solids	82
Sludge volume, 1,000 cu. ft./day	1.79
Digester 1 (fixed cover)	
Diameter, feet	40
Side water depth, feet	16
Volume, 1,000 cu. ft.	22.2
Digester 2 (fixed cover)	
Diameter, feet	40
Side water depth, feet	19
Volume, 1,000 cu. ft.	25.6
Digester 3 (floating cover)	
Diameter, feet	35
Side water depth, feet, average	22.5
Volume, 1,000 cu. ft.	22.8
Hydraulic detention time based on net volume of digesters 2 & 3, days	23
Expected sludge gas production, 1,000 cu. ft./day	28.4
Sludge drying beds	
Number	12
Length, each, feet	162
Width, each, feet	32
Loadings, lb of solids/sq. ft./year	16

OCEAN OUTFALL

Length, feet	
Land portion	1,100
Ocean portion	4,060
Diameter, inches	27
Discharge depth, feet below MLLW	50
Multiport diffuser	
Ports open	29
Ports closed (future)	5
Port diameter, inches	2

Attachment #2
Process Schematic



Attachment #3 Topographic Map

Plan Annotations



Outfall 001
35°23'11"N
120°52'29"W

Drinking-water wells

MBCSD Wastewater Treatment Plant

1927 North American Datum, T.82N/120E UTM grid zone 10
 Generated by BigT.com (www.bigt.com)
 Map compiled from USGS Quads: Capitan, CA; Morro Bay N00N; Morro Bay South 0A



MBCSD

FACILITY NAME AND PERMIT NUMBER:

City of Morro Bay and Cayucos Sanitary District WWTP #CA00478811

Form Approved 1/14/99
OMB Number 2040-0086

FORM
2A
NPDES

NPDES FORM 2A APPLICATION OVERVIEW

APPLICATION OVERVIEW

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

BASIC APPLICATION INFORMATION:

- A. **Basic Application Information for all Applicants.** All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. **Additional Application Information for Applicants with a Design Flow \geq 0.1 mgd.** All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. **Certification.** All applicants must complete Part C (Certification).

SUPPLEMENTAL APPLICATION INFORMATION:

- D. **Expanded Effluent Testing Data.** A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to provide the information.
- E. **Toxicity Testing Data.** A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. **Industrial User Discharges and RCRA/CERCLA Wastes.** A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
 - 1. All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
 - 2. Any other industrial user that:
 - a. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
 - b. Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
 - c. Is designated as an SIU by the control authority.
- G. **Combined Sewer Systems.** A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)

FACILITY NAME AND PERMIT NUMBER:

City of Morro Bay and Cayucos Sanitary District WWTP #CA00478811

Form Approved 1/14/99
OMB Number 2040-0086

BASIC APPLICATION INFORMATION

PART A. BASIC APPLICATION INFORMATION FOR ALL APPLICANTS:

All treatment works must complete questions A.1 through A.8 of this Basic Application Information packet.

A.1. Facility Information.

Facility name City of Morro Bay and Cayucos Sanitary District Wastewater Treatment Plant

Mailing Address 955 Shasta Avenue
Morro Bay, CA 93442

Contact person Mr. Rob Livick

Title Public Services Director/ City Engineer

Telephone number (805) 772-6271

Facility Address 160 Atascadero Road
(not P.O. Box) Morro Bay, CA 93442

A.2. Applicant Information. If the applicant is different from the above, provide the following:

Applicant name See Above

Mailing Address See Above

Contact person See Above

Title See Above

Telephone number _____

Is the applicant the owner or operator (or both) of the treatment works?

owner operator

Indicate whether correspondence regarding this permit should be directed to the facility or the applicant.

_____ facility applicant

A.3. Existing Environmental Permits. Provide the permit number of any existing environmental permits that have been issued to the treatment works (include state-issued permits).

NPDES CA0047881 PSD N/A

UIC N/A Other N/A

RCRA N/A Other N/A

A.4. Collection System Information. Provide information on municipalities and areas served by the facility. Provide the name and population of each entity and, if known, provide information on the type of collection system (combined vs. separate) and its ownership (municipal, private, etc.).

Name	Population Served	Type of Collection System	Ownership
<u>City of Morro Bay</u>	<u>10,243</u>	<u>seperate sanitary</u>	<u>public</u>
<u>Cayucos Sanitary District</u>	<u>2,592</u>	<u>seperate sanitary</u>	<u>public</u>
<hr/>			
Total population served	<u>12,835</u>		

FACILITY NAME AND PERMIT NUMBER:

City of Morro Bay and Cayucos Sanitary District WWTP #CA00478811

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If yes, describe the mean(s) by which the wastewater from the treatment works is discharged or transported to the other treatment works (e.g., tank truck, pipe).

N/A

If transport is by a party other than the applicant, provide:

Transporter name: N/A

Mailing Address: N/A

Contact person: N/A

Title: N/A

Telephone number:

For each treatment works that receives this discharge, provide the following:

Name: N/A

Mailing Address: N/A

Contact person: N/A

Title: N/A

Telephone number:

If known, provide the NPDES permit number of the treatment works that receives this discharge. N/A

Provide the average daily flow rate from the treatment works into the receiving facility. 0.00 mgd

- e. Does the treatment works discharge or dispose of its wastewater in a manner not included in A.8.a through A.8.d above (e.g., underground percolation, well injection)? Yes No

If yes, provide the following for each disposal method:

Description of method (including location and size of site(s) if applicable):

N/A

Annual daily volume disposed of by this method: 0

Is disposal through this method continuous or intermittent?

FACILITY NAME AND PERMIT NUMBER:

City of Morro Bay and Cayucos Sanitary District WWTP #CA00478811

Form Approved 1/14/99
OMB Number 2040-0086

WASTEWATER DISCHARGES:

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

A.9. Description of Outfall.

- a. Outfall number 001
- b. Location N/A
(City or town, if applicable) San Luis Obispo (Zip Code) California
(County) San Luis Obispo (State) California
(Latitude) 35° 23' 11" N (Longitude) 120° 52' 29" W
- c. Distance from shore (if applicable) 2,700.00 ft.
- d. Depth below surface (if applicable) 50.00 ft.
- e. Average daily flow rate 2.06 mgd
- f. Does this outfall have either an intermittent or a periodic discharge?
 Yes No (go to A.9.g.)
- If yes, provide the following information:
- Number of times per year discharge occurs: N/A
- Average duration of each discharge: N/A
- Average flow per discharge: 0.00 mgd
- Months in which discharge occurs: N/A
- g. Is outfall equipped with a diffuser?
 Yes No

A.10. Description of Receiving Waters.

- a. Name of receiving water Estero Bay, Pacific Ocean
- b. Name of watershed (if known) N/A
 United States Soil Conservation Service 14-digit watershed code (if known): N/A
- c. Name of State Management/River Basin (if known): N/A
 United States Geological Survey 8-digit hydrologic cataloging unit code (if known): N/A
- d. Critical low flow of receiving stream (if applicable):
 acute _____ cfs chronic _____ cfs
- e. Total hardness of receiving stream at critical low flow (if applicable): _____ mg/l of CaCO₃

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A.11. Description of Treatment.

a. What levels of treatment are provided? Check all that apply.

Primary Secondary
 Advanced Other. Describe: Partial Secondary with disinfection and dechlorination

b. Indicate the following removal rates (as applicable):

Design BOD₅ removal or Design CBOD₅ removal 57.00 %
 Design SS removal 75.00 %
 Design P removal _____ %
 Design N removal _____ %
 Other _____ %

c. What type of disinfection is used for the effluent from this outfall? If disinfection varies by season, please describe.

All effluent chlorinated with sodium hypochlorite injection within a chlorine contact chamber prior to discharge

If disinfection is by chlorination, is dechlorination used for this outfall? Yes No

d. Does the treatment plant have post aeration? _____ Yes No

A.12. Effluent Testing Information. All Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three samples and must be no more than four and one-half years apart.

Outfall number: 001

PARAMETER	MAXIMUM DAILY VALUE		AVERAGE DAILY VALUE		
	Value	Units	Value	Units	Number of Samples
pH (Minimum)	7.30	s.u.			
pH (Maximum)	7.90	s.u.			
Flow Rate	2.00	MGD	1.02	MGD	365.00
Temperature (Winter)	23.00	°C	18.20	°C	182.00
Temperature (Summer)	23.00	°C	20.61	°C	182.00

* For pH please report a minimum and a maximum daily value

POLLUTANT	MAXIMUM DAILY DISCHARGE		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD	ML / MDL
	Conc.	Units	Conc.	Units	Number of Samples		

CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.

BIOCHEMICAL OXYGEN DEMAND (Report one)	BOD-5	89.00	mg/l	49.31	mg/l	49.00	5210B	2
	CBOD-5							
FECAL COLIFORM TOTAL		130.00	MPN/100 ml	2.99	MPN/100 ml	284.00	9221B	2
TOTAL SUSPENDED SOLIDS (TSS)		62.00	mg/l	29.48	mg/l	295.00	2540D	1

END OF PART A.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

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BASIC APPLICATION INFORMATION

PART B. ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).

All applicants with a design flow rate \geq 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).

B.1. Inflow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration.

189,000.00 gpd

Briefly explain any steps underway or planned to minimize inflow and infiltration.

Smoke Testing/video inspection; lining/replacement major sewer lines; identification/elimination of storm-drain cross connections; sealing of manholes and chimneys with visible leaks; regular line cleaning with hydrovac

B.2. Topographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This map must show the outline of the facility and the following information. (You may submit more than one map if one map does not show the entire area.)

- a. The area surrounding the treatment plant, including all unit processes.
- b. The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.
- c. Each well where wastewater from the treatment plant is injected underground.
- d. Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.
- e. Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.
- f. If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.

B.3. Process Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all backup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g. chlorination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily flow rates between treatment units. Include a brief narrative description of the diagram.

B.4. Operation/Maintenance Performed by Contractor(s).

Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor? Yes No

If yes, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages if necessary).

Name: N/A

Mailing Address: N/A

Telephone Number: _____

Responsibilities of Contractor: N/A

B.5. Scheduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or uncompleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the treatment works has several different implementation schedules or is planning several improvements, submit separate responses to question B.5 for each. (If none, go to question B.6.)

- a. List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.

001

- b. Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.

Yes No

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c. If the answer to B.5.b is "Yes," briefly describe, including new maximum daily inflow rate (if applicable).

see attached

d. Provide dates imposed by any compliance schedule or any actual dates of completion for the implementation steps listed below, as applicable. For improvements planned independently of local, State, or Federal agencies, indicate planned or actual completion dates, as applicable. Indicate dates as accurately as possible.

Implementation Stage	Schedule	Actual Completion
	MM / DD / YYYY	MM / DD / YYYY
- Begin construction	__ / __ / ____	__ / __ / ____
- End construction	__ / __ / ____	__ / __ / ____
- Begin discharge	__ / __ / ____	__ / __ / ____
- Attain operational level	__ / __ / ____	__ / __ / ____

e. Have appropriate permits/clearances concerning other Federal/State requirements been obtained? Yes No

Describe briefly: _____

B.6. EFFLUENT TESTING DATA (GREATER THAN 0.1 MGD ONLY).

Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall Number: 001

POLLUTANT	MAXIMUM DAILY DISCHARGE		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD	ML / MDL
	Conc.	Units	Conc.	Units	Number of Samples		
CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.							
AMMONIA (as N)	64.0	mg/l	37.08	mg/l	12	350.1	1.0
CHLORINE (TOTAL RESIDUAL, TRC)	0.44	mg/l	<0.05	mg/l	365	SM45001G	0.05
DISSOLVED OXYGEN	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOTAL KJELDAHL NITROGEN (TKN)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NITRATE PLUS NITRITE NITROGEN	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OIL and GREASE	22	mg/l	5.55	mg/l	55	1664A HEM	5
PHOSPHORUS (Total)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOTAL DISSOLVED SOLIDS (TDS)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OTHER	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**END OF PART B.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE**

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BASIC APPLICATION INFORMATION

PART C. CERTIFICATION

All applicants must complete the Certification Section. Refer to instructions to determine who is an officer for the purposes of this certification. All applicants must complete all applicable sections of Form 2A, as explained in the Application Overview. Indicate below which parts of Form 2A you have completed and are submitting. By signing this certification statement, applicants confirm that they have reviewed Form 2A and have completed all sections that apply to the facility for which this application is submitted.

Indicate which parts of Form 2A you have completed and are submitting:

Basic Application Information packet

Supplemental Application Information packet:

Part D (Expanded Effluent Testing Data)

Part E (Toxicity Testing: Biomonitoring Data)

Part F (Industrial User Discharges and RCRA/CERCLA Wastes)

Part G (Combined Sewer Systems)

ALL APPLICANTS MUST COMPLETE THE FOLLOWING CERTIFICATION.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title Rob Livick, Public Services Director/ City Engineer

Signature 

Telephone number (805) 772-6261

Date signed 8-26-2013

Upon request of the permitting authority, you must submit any other information necessary to assess wastewater treatment practices at the treatment works or identify appropriate permitting requirements.

SEND COMPLETED FORMS TO:

FACILITY NAME AND PERMIT NUMBER:
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SUPPLEMENTAL APPLICATION INFORMATION

PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall number: 001 (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.											
ANTIMONY	0	µg/l	0	g	0	µg/l	0	g	4	200.7	100
ARSENIC	0	µg/l	0	g	0	µg/l	0	g	8	200.8	2
BERYLLIUM	0	µg/l	0	g	0	µg/l	0	g	4	200.7	10
CADMIUM	0	µg/l	0	g	0	µg/l	0	g	8	200.7	10
CHROMIUM	0	µg/l	0	g	0	µg/l	0	g	8	200.7	10
COPPER	22	µg/l	99.3	g	15.75	µg/l	68.3	g	8	200.7	10
LEAD	1.5	µg/l	6.7	g	0.61	µg/l	2.5	g	8	200.8	1
MERCURY	0	µg/l	0	g	0	µg/l	0	g	8	245.1	0.2
NICKEL	0	µg/l	0	g	0	µg/l	0	g	8	200.7	10
SELENIUM	2.7	µg/l	12.5	g	0.90	µg/l	4.0	g	8	200.8	2
SILVER	0	µg/l	0	g	0	µg/l	0	g	8	200.7	10
THALLIUM	0	µg/l	0	g	0	µg/l	0	g	4	200.8	1
ZINC	59	µg/l	266.4	g	39.38	µg/l	173.8	g	8	200.7	50
CYANIDE	0.050	mg/l	195.4	g	0.016	mg/l	65.7	g	8	335.4	0.005
TOTAL PHENOLIC COMPOUNDS	3.3	µg/l	16.5	g	1.48	µg/l	6.8	g	4	625	0.5
HARDNESS (AS CaCO ₃)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Use this space (or a separate sheet) to provide information on other metals requested by the permit writer.											
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Outfall number: 001 (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
VOLATILE ORGANIC COMPOUNDS.											
ACROLEIN	0	µg/l	0	g	0	µg/l	0	g	4	624	20
ACRYLONITRILE	0	µg/l	0	g	0	µg/l	0	g	4	624	5
BENZENE	0	µg/l	0	g	0	µg/l	0	g	4	624	0.5
BROMOFORM	0	µg/l	0	g	0	µg/l	0	g	4	624	0.5
CARBON TETRACHLORIDE	0	µg/l	0	g	0	µg/l	0	g	4	624	0.5
CLOROBENZENE	0	µg/l	0	g	0	µg/l	0	g	4	624	0.5
CHLORODIBROMO-METHANE	0	µg/l	0	g	0	µg/l	0	g	4	624	0.5
CHLOROETHANE	0	µg/l	0	g	0	µg/l	0	g	4	624	0.5
2-CHLORO-ETHYLVINYL ETHER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CHLOROFORM	0.86	µg/l	3.8	g	0.57	µg/l	2.5	g	4	624	0.5
DICHLOROBROMO-METHANE	0	µg/l	0	g	0	µg/l	0	g	4	624	0.5
1,1-DICHLOROETHANE	0	µg/l	0	g	0	µg/l	0	g	4	624	0.5
1,2-DICHLOROETHANE	0	µg/l	0	g	0	µg/l	0	g	4	624	0.5
TRANS-1,2-DICHLORO-ETHYLENE	0	µg/l	0	g	0	µg/l	0	g	4	624	0.5
1,1-DICHLOROETHYLENE	0	µg/l	0	g	0	µg/l	0	g	4	624	0.5
1,2-DICHLOROPROPANE	0	µg/l	0	g	0	µg/l	0	g	4	624	0.5
1,3-DICHLORO-PROPYLENE	0	µg/l	0	g	0	µg/l	0	g	4	624	0.5
ETHYLBENZENE	0	µg/l	0	g	0	µg/l	0	g	4	624	0.5
METHYL BROMIDE	0	µg/l	0	g	0	µg/l	0	g	4	624	1
METHYL CHLORIDE	0	µg/l	0	g	0	µg/l	0	g	4	624	0.5
METHYLENE CHLORIDE	0	µg/l	0	g	0	µg/l	0	g	4	624	1
1,1,2,2-TETRACHLORO-ETHANE	0	µg/l	0	g	0	µg/l	0	g	4	624	0.5
TETRACHLORO-ETHYLENE	0	µg/l	0	g	0	µg/l	0	g	4	624	0.5
TOLUENE	0.5	µg/l	2.3	g	0.13	µg/l	0.5	g	4	624	0.5

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POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
1,1,1-TRICHLOROETHANE	0	µg/l	0	g	0	µg/l	0	g	4	624	0.5
1,1,2-TRICHLOROETHANE	0	µg/l	0	g	0	µg/l	0	g	4	624	0.5
TRICHLOROETHYLENE	0	µg/l	0	g	0	µg/l	0	g	4	624	0.5
VINYL CHLORIDE	0	µg/l	0	g	0	µg/l	0	g	4	624	0.5

Use this space (or a separate sheet) to provide information on other volatile organic compounds requested by the permit writer.

N/A											
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

ACID-EXTRACTABLE COMPOUNDS

P-CHLORO-M-CRESOL	0	µg/l	0	g	0	µg/l	0	g	4	625	5
2-CHLOROPHENOL	0	µg/l	0	g	0	µg/l	0	g	4	625	2
2,4-DICHLOROPHENOL	0	µg/l	0	g	0	µg/l	0	g	4	625	2
2,4-DIMETHYLPHENOL	0	µg/l	0	g	0	µg/l	0	g	4	625	2
4,6-DINITRO-O-CRESOL	0	µg/l	0	g	0	µg/l	0	g	4	625	10
2,4-DINITROPHENOL	0	µg/l	0	g	0	µg/l	0	g	4	625	10
2-NITROPHENOL	0	µg/l	0	g	0	µg/l	0	g	4	625	2
4-NITROPHENOL	0	µg/l	0	g	0	µg/l	0	g	4	625	2
PENTACHLOROPHENOL	0	µg/l	0	g	0	µg/l	0	g	4	625	10
PHENOL	0	µg/l	0	g	0	µg/l	0	g	4	625	2
2,4,6-TRICHLOROPHENOL	0	µg/l	0	g	0	µg/l	0	g	4	625	5

Use this space (or a separate sheet) to provide information on other acid-extractable compounds requested by the permit writer.

N/A											
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

BASE-NEUTRAL COMPOUNDS.

ACENAPHTHENE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
ACENAPHTHYLENE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
ANTHRACENE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
BENZIDINE	0	µg/l	0	g	0	µg/l	0	g	4	625	20
BENZO(A)ANTHRACENE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
BENZO(A)PYRENE	0	µg/l	0	g	0	µg/l	0	g	4	625	2

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 Outfall number: 001 (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
3,4 BENZO-FLUORANTHENE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
BENZO(GH)PERYLENE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
BENZO(K)FLUORANTHENE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
BIS (2-CHLOROETHOXY) METHANE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
BIS (2-CHLOROETHYL)-ETHER	0	µg/l	0	g	0	µg/l	0	g	4	625	2
BIS (2-CHLOROISO-PROPYL) ETHER	0	µg/l	0	g	0	µg/l	0	g	4	625	2
BIS (2-ETHYLHEXYL) PHTHALATE	9.2	µg/l	41.5	g	4.35	µg/l	19.66	g	4	625	5
4-BROMOPHENYL PHENYL ETHER	0	µg/l	0	g	0	µg/l	0	g	4	625	2
BUTYL BENZYL PHTHALATE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
2-CHLORONAPHTHALENE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
4-CHLORPHENYL PHENYL ETHER	0	µg/l	0	g	0	µg/l	0	g	4	625	2
CHRYSENE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
DI-N-BUTYL PHTHALATE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
DI-N-OCTYL PHTHALATE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
DIBENZO(A,H) ANTHRACENE	0	µg/l	0	g	0	µg/l	0	g	4	625	3
1,2-DICHLOROBENZENE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
1,3-DICHLOROBENZENE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
1,4-DICHLOROBENZENE	0	µg/l	0	g	0	µg/l	0	g	4	624	0.5
3,3-DICHLOROBENZIDINE	0	µg/l	0	g	0	µg/l	0	g	4	625	10
DIETHYL PHTHALATE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
DIMETHYL PHTHALATE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
2,4-DINITROTOLUENE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
2,6-DINITROTOLUENE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
1,2-DIPHENYLHYDRAZINE	0	µg/l	0	g	0	µg/l	0	g	4	625	2

FACILITY NAME AND PERMIT NUMBER:

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Outfall number: 001 (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
FLUORANTHENE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
FLUORENE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
HEXACHLOROBENZENE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
HEXACHLOROBUTADIENE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
HEXACHLOROCYCLO-PENTADIENE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
HEXACHLOROETHANE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
INDENO(1,2,3-CD)PYRENE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
ISOPHORONE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
NAPHTHALENE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
NITROBENZENE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
N-NITROSODI-N-PROPYLAMINE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
N-NITROSODI- METHYLAMINE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
N-NITROSODI-PHENYLAMINE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
PHENANTHRENE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
PYRENE	0	µg/l	0	g	0	µg/l	0	g	4	625	2
1,2,4-TRICHLOROBENZENE	0	µg/l	0	g	0	µg/l	0	g	4	625	2

Use this space (or a separate sheet) to provide information on other base-neutral compounds requested by the permit writer.

N/A N/A

Use this space (or a separate sheet) to provide information on other pollutants (e.g., pesticides) requested by the permit writer.

N/A N/A

**END OF PART D.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE**

FACILITY NAME AND PERMIT NUMBER:

City of Morro Bay and Cayucos Sanitary District WWTP #CA00478811

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SUPPLEMENTAL APPLICATION INFORMATION

PART E. TOXICITY TESTING DATA

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters.

- At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
- In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results of a toxicity reduction evaluation, if one was conducted.
- If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E.

If no biomonitoring data is required, do not complete Part E. Refer to the Application Overview for directions on which other sections of the form to complete.

E.1. Required Tests.

Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years.

12 chronic 0 acute

E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported.

Test number: _____ Test number: _____ Test number: _____

a. Test information. **See Question E.4 and Attachment 3**

Test species & test method number			
Age at initiation of test			
Outfall number			
Dates sample collected			
Date test started			
Duration			

b. Give toxicity test methods followed.

Manual title			
Edition number and year of publication			
Page number(s)			

c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used.

24-Hour composite			
Grab			

d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each)

Before disinfection			
After disinfection			
After dechlorination			

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Test number: _____ Test number: _____ Test number: _____

e. Describe the point in the treatment process at which the sample was collected.

Sample was collected:

f. For each test, include whether the test was intended to assess chronic toxicity, acute toxicity, or both.

Chronic toxicity

Acute toxicity

g. Provide the type of test performed.

Static

Static-renewal

Flow-through

h. Source of dilution water. If laboratory water, specify type; if receiving water, specify source.

Laboratory water

Receiving water

i. Type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.

Fresh water

Salt water

j. Give the percentage effluent used for all concentrations in the test series.



k. Parameters measured during the test. (State whether parameter meets test method specifications)

pH

Salinity

Temperature

Ammonia

Dissolved oxygen

l. Test Results.

Acute:

Percent survival in 100% effluent	%	%	%
-----------------------------------	---	---	---

LC₅₀

95% C.I.	%	%	%
----------	---	---	---

Control percent survival	%	%	%
--------------------------	---	---	---

Other (describe)

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Chronic:			
NOEC	%	%	%
IC ₂₅	%	%	%
Control percent survival	%	%	%
Other (describe)			

m. Quality Control/Quality Assurance.

Is reference toxicant data available?			
Was reference toxicant test within acceptable bounds?			
What date was reference toxicant test run (MM/DD/YYYY)?			
Other (describe)			

E.3. Toxicity Reduction Evaluation. Is the treatment works involved in a Toxicity Reduction Evaluation?

___ Yes No If yes, describe: N/A

E.4. Summary of Submitted Biomonitoring Test Information. If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results.

Date submitted: Attachment 3 (MM/DD/YYYY)

Summary of results: (see instructions)
See Attachment 3

**END OF PART E.
 REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
 2A YOU MUST COMPLETE.**

FACILITY NAME AND PERMIT NUMBER:
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SUPPLEMENTAL APPLICATION INFORMATION

PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES

All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F.

GENERAL INFORMATION:

F.1. **Pretreatment Program.** Does the treatment works have, or is it subject to, an approved pretreatment program?

Yes No

F.2. **Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs).** Provide the number of each of the following types of industrial users that discharge to the treatment works.

a. Number of non-categorical SIUs. _____

b. Number of CIUs. _____

SIGNIFICANT INDUSTRIAL USER INFORMATION:

Supply the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide the information requested for each SIU.

F.3. **Significant Industrial User Information.** Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: N/A

Mailing Address: N/A

F.4. **Industrial Processes.** Describe all of the industrial processes that affect or contribute to the SIU's discharge.

N/A

F.5. **Principal Product(s) and Raw Material(s).** Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.

Principal product(s): N/A

Raw material(s): N/A

F.6. **Flow Rate.**

a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

0.00 gpd (continuous or intermittent)

b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

0.00 gpd (continuous or intermittent)

F.7. **Pretreatment Standards.** Indicate whether the SIU is subject to the following:

a. Local limits Yes No

b. Categorical pretreatment standards Yes No

If subject to categorical pretreatment standards, which category and subcategory?

N/A

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F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?

Yes No If yes, describe each episode.

RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE:

F.9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, or dedicated pipe? Yes No (go to F.12.)

F.10. Waste Transport. Method by which RCRA waste is received (check all that apply):

Truck Rail Dedicated Pipe

F.11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).

<u>EPA Hazardous Waste Number</u>	<u>Amount</u>	<u>Units</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

CERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:

F.12. Remediation Waste. Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities?

Yes (complete F.13 through F.15.) No

Provide a list of sites and the requested information (F.13 - F.15.) for each current and future site.

F.13. Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years).

N/A

F.14. Pollutants. List the hazardous constituents that are received (or are expected to be received). Include data on volume and concentration, if known. (Attach additional sheets if necessary).

N/A

F.15. Waste Treatment.

a. Is this waste treated (or will it be treated) prior to entering the treatment works?

Yes No

If yes, describe the treatment (provide information about the removal efficiency):

N/A

b. Is the discharge (or will the discharge be) continuous or intermittent?

Continuous Intermittent If intermittent, describe discharge schedule.

**END OF PART F.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
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- c. Give the average volume per CSO event.
_____ million gallons (____ actual or ____ approx.)
- d. Give the minimum rainfall that caused a CSO event in the last year.
_____ inches of rainfall

G.5. Description of Receiving Waters.

- a. Name of receiving water: N/A
- b. Name of watershed/river/stream system: _____

United States Soil Conservation Service 14-digit watershed code (if known): _____
- c. Name of State Management/River Basin: _____

United States Geological Survey 8-digit hydrologic cataloging unit code (if known): _____

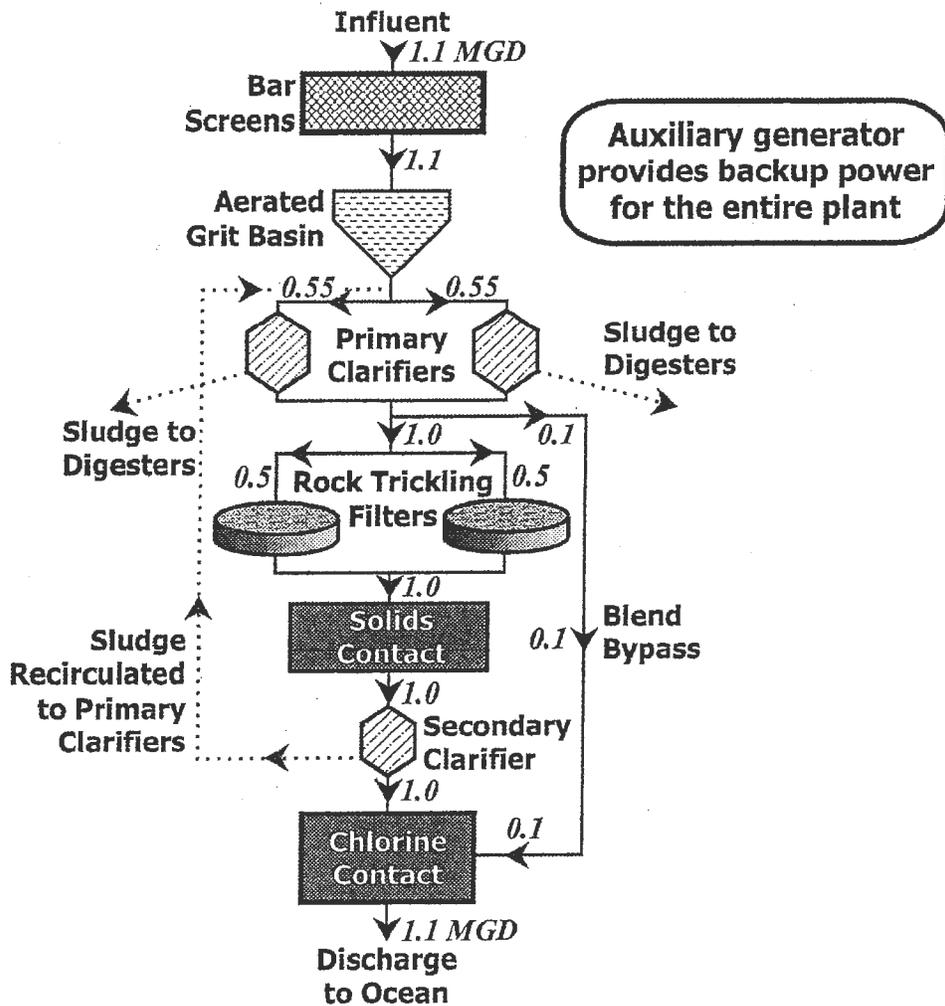
G.6. CSO Operations.

Describe any known water quality impacts on the receiving water caused by this CSO (e.g., permanent or intermittent beach closings, permanent or intermittent shell fish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable State water quality standard).

**END OF PART G.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE.**

Additional information, if provided, will appear on the following pages.

ATTACHMENT 2
NPDES FORM 2A APPLICATION
Morro Bay and Cayucos Sanitary District
Item B.3: Process Flow Schematic



Attachment 3
NPDES Form 2A Application
Morro Bay and Cayucos Sanitary District
Item E.4: Summary of Submitted Biomonitoring
Test Information

Collection	Submittal	Test	TUc
15 Jul 2009	01 Sep 2009	<i>M. pyrifer</i> Germination	10.0
15 Jul 2009	01 Sep 2009	<i>M. pyrifer</i> Growth	17.9
15 Jul 2009	01 Sep 2009	<i>H. rufescens</i> Larval Development	31.2
12 Jan 2010	29 Jan 2010	<i>M. pyrifer</i> Germination	10.0
12 Jan 2010	29 Jan 2010	<i>M. pyrifer</i> Growth	5.6
12 Jan 2010	29 Jan 2010	<i>H. rufescens</i> Larval Development	10.0
13 Jul 2010	06 Aug 2010	<i>H. rufescens</i> Larval Development	17.9
11 Jan 2011	24 Jan 2011	<i>H. rufescens</i> Larval Development	10.0
12 Jul 2011	02 Aug 2011	<i>H. rufescens</i> Larval Development	17.9
17 Jan 2012	06 Feb 2012	<i>H. rufescens</i> Larval Development	10.0
16 Jul 2012	12 Sep 2012	<i>H. rufescens</i> Larval Development	17.9
14 Jan 2013	25 Jan 2013	<i>H. rufescens</i> Larval Development	17.9

NPDES Form 2A: Section B.5 Scheduled Improvements and Schedule of Implementation

Section B.5 of Form 2A requests information on any uncompleted implementation schedule or uncompleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. The following discussion is intended to: (i) provide an overview of the City's and District's plans to construct a new water reclamation facility ("WRF"); and (ii) provide a brief summary of the proposed upgrade to the City's and District's waste water treatment plant ("WWTP") at its existing location that was recently denied a coastal development permit ("CDP") by the California Coastal Commission ("CCC"). In addition, there is a discussion of the Major Repair and Maintenance Program ("MMRP") that was developed to keep the current WWTP operating and in compliance with regulatory requirements while the City and District develop project plans for construction of a new WRF.

Overview

In December 2008, the City and District executed a Settlement Agreement with the Regional Water Quality Control Board ("RWQCB") to upgrade the existing WWTP to eliminate the need for a 301(h) waiver-modified permit. According to the terms of the Settlement Agreement, the WWTP was to be upgraded so that all effluent is treated to at least secondary levels, phasing out the need for a modified discharge permit by March 2014. The Settlement Agreement contains a conversion schedule that outlines the upgrade process and includes certain milestones for achieving critical phases of the proposed upgrade project. A copy of the conversion schedule is attached. On January 10, 2013, the CCC denied a CDP for the proposed upgrade project at the existing WWTP location. The City and District are now pursuing project planning of a new WRF at an alternate location. The RWQCB agreed that the CCC's denial of the CDP constituted a "force majeure" event extending the benchmarks and deadlines set forth in the Settlement Agreement.

Development of a New Water Reclamation Facility

Based on the CCC's denial of the CDP for the proposed upgrades to the existing WWTP site, the City and District have begun project planning based on community values, for the planning, design, and construction of a new WRF at an alternative location. The City and District anticipate it will take seven to ten years to complete the construction of a new WRF. In order to expedite the planning decisions, the City and District are individually exploring site options with their own communities. The District entered into a contract with Water Systems Consultants ("WSC") on March 5, 2013. WSC prepared a Technical Memorandum outlining various waste water treatment alternatives. The technical memorandum was accepted by the District on July 15, 2013. The technical memorandum states that one feasible alternative is the regional WRF at the California Men's Colony site. The District is anxious to further explore this potential project. The City has also developed their tentative schedule for the preliminary planning effort for the WRF. This charts a path of site selection and other important community decisions that are needed to see the WRF project move forward successfully with input from both communities. The City's and District's goal is to bring these preliminary planning decisions together by the end of 2013. A copy of the tentative schedule for the planning, design, financing, and construction of a new WRF is attached. Following approval of the preliminary planning decisions by the City and District, the parties anticipate negotiating a new timeline under the Settlement Agreement with the RWQCB to outline the process for siting, planning, financing, designing, and constructing a new WRF.

WRF PROJECT STATUS

Below is a brief review of dates, status and accomplishments on the WRF facility project.

Planned Activities

<u>Date</u>	<u>Action</u>
09/16/13	Biosolids and Treatment Options Workshop - location TBA
10/15/13	Second Public Workshop - location TBA
10/23/13	Presentation of Options Report to City Council

Completed Actions

<u>Date</u>	<u>Action</u>
07/24/13 & 7/25/13	Stakeholder Interviews
08/15/13	First Public Workshop at MB Veteran's Memorial Building
07/03/13	Working with Coastal Commission staff to finalize date for quarterly meeting/teleconference.
07/03/13	Tentative schedule from Rickenbach for the new WRF
06/24/13	Work with Rickenbach to determine updated schedule pursuant to the scope of work in the RFP.
06/25/13	Determination of Stakeholder groups/individuals.
06/24/13	Kick-off meeting with John Rickenbach and team members.
06/13/13	JPA meeting held at Cayucos Veteran's Hall.
06/10/13	Executed Contract with John F. Rickenbach, Consulting.
05/28/13	City Council Closed Session Item scheduled to discuss Righetti appraisal.
05/15/13	Public Services' Staff continues work with John F. Rickenbach, Consulting to finalize the consulting contract.
05/14/13	City Council meeting – Approval of John F. Rickenbach, Consulting as the Preliminary Planning Consultant for the WRF project.
05/09/13	JPA meeting held, “Verbal Report by the City and District on the Progress of the future WWTP” was on the agenda and discussed.
05/02/13	Interviews to recommend the individual/team for the WRF project management.
04/29/13	WRF Study Session at Veteran’s Hall.
04/25/13	Quarterly Meeting with California Coastal Commission staff, WRF discussion and status report on the meeting agenda.
	Initial meeting with Selection Committee for the RFP for Planning Services for the WRF.
04/23/13	City Council meeting - reaffirmation of 5 members of citizen selection committee.
04/16/13	Study Session on WRF facility announced for April 29, 2013.
04/15/13	Request for Proposals (RFP) due.
04/11/13	April JPA meeting held, “Verbal Report by the City and District on the Progress of the future WWTP” and Discussion and Approval to Terminate the Consultant Services Agreements with Delzeit; Dudek, McCabe and Company; and Montgomery Watson Harza (MWH)” were on the agenda and discussed.
04/10/13	Addendum to RFP issued regarding selection committee.
04/09/13	City Council meeting - appointment of 5 citizens for the RFP selection committee.
04/05/13	Citizen selection committee deadline.
03/27/13	Announcement placed on City website, etc. regarding citizen selection committee application period.
03/26/13	City Council meeting - Council approves citizens to serve on the RFP selection committee.
03/18/13	RFP issued.
	City Council Goal Session - WRF established as Essential City Goal.
03/14/13	JPA meeting - "Status Report on Discussion with RWQCB Staff Renewal Process for the WWTP NPDES Permit No. CA0047881" and "Verbal Report by the City and District on the Progress of the future WWTP" were on the agenda and discussed.

- 03/11/13 City Council Goal Session - WRF established as Essential City Goal.
- 03/6/2013 City and District Staff meet with RWQCB Staff to discuss the denial of the CDP by the California Coastal Commission; City and District plans to move forward on upgrading the existing plant and construction of a new water reclamation facility at an alternative location; and status of the Conversion Schedule and upcoming NPDES permit renewal process
- 02/26/13 City Council meeting - draft schedule/project timeline presented to City Council.
- 02/14/13 JPA meeting - "Discussion and Consideration of Next Steps for the WWTP Upgrade Project" was on the agenda and discussed.
- 01/24/13 City Staff, Morro Bay JPA Sub-Committee, Cayucos Sanitary District representatives, staff and attorney meet and discuss strategy and moving forward.
- 01/08/13 WWTP Project denied by the California Coastal Commission (CCC).
- 01/03/13 January JPA meeting not held to CCC meeting.
- 01/03/13 Special City Council meeting - Council adopted Resolution No. 07-13 recommending denial of the WWTP project.

Summary of the Project History for the Upgrade Project at the Existing WWTP

The following discussion provides a summary of the project milestones for the upgrade project at the existing WWTP location that was denied a CDP permit by the CCC on January 10, 2013.

Facility Master Planning:

- Carollo Engineers was contracted to develop a Facility Master Plan (FMP) in June 2007.
- September 2007: The City and District adopted the final FMP recommendation to upgrade the wastewater treatment plant to full secondary treatment and to provide tertiary filtration capacity of 1.5 million gallons per day using an oxidation ditch biological process with filtration as the preferred treatment option.

Project Financing:

- The City and District selected the State Water Resources Control Board State Revolving Fund loan program as the preferred source of funding for the project.
- In August 2007 the City and District adopted Draft Revenue Programs that were developed by Carollo Engineers based on the final recommendation in the FMP. The purpose of the Revenue Programs was to establish impacts to the existing sewer rate structure for financing the upgrades to the treatment plant. The Revenue Programs were used to estimate the monthly sewer charges and connection fees for the first year of operation of the upgraded and rehabilitated treatment plant to assure the State Water Resources Control Board (SWRCB) that the City and District collect sufficient money to cover operations for that year and pay the first yearly SRF loan payment.
- November 2007, the City of Morro Bay adopted Resolution No. 55-07 establishing the current Wastewater User Fees based on the City's Draft Revenue Program.
- October 2007, The Cayucos Sanitary District adopted Resolution No. 2007-6 establishing the current Wastewater User Fees based on the Draft Revenue Program based on the CSD's Draft Revenue Program.
- The application to SRF was placed on hold when the project was appealed to the CCC in January 2011.

Environmental Review and Permitting

- May 2008, the City and District awarded contract for the Environmental Review Process to Environmental Science Associates (ESA).
- October 2008 A Notice of Preparation (NOP) of an Environmental Impact Report for the upgrade project was public noticed, with a thirty day public comment period.

- September 2009, The City and District designated the property to the south as the new treatment plant site and conduct the environmental analysis.
- October 2009, a revised Notice of Preparation was publicly noticed; the revised NOP included a modified project description that reflected construction of a new treatment plant next to the existing plant and demolition of the existing plant once the new plant is constructed and brought on-line.
- September 20, 2011, the draft CEQA document was completed and publicly noticed for comments.
- January 10, 2011 Morro Bay City Council certified the final EIR and issued a CDP for the upgrade project.
- January, 2011 the CDP is appealed to the CCC.
- January 10, 2013 CCC meeting, the CCC denied the CDP at a de novo hearing, for construction of an upgraded WWTP at its existing location. In summary, the basis for denial included: Local Coastal Plan - Zoning inconsistency, failure to avoid coastal hazards, failure to include a sizable reclaimed water component and the project is located within an LCP-designated sensitive view area.

Force Majeure

- February 23, 2011, per the terms of the Settlement Agreement, the City and District submitted a letter to the RWQCB stating that the appeal of the CDP to the CCC constituted a “force majeure event” under the terms of the Settlement Agreement.
- March 24, 2011, RWQCB concurred with the City and District regarding the force majeure event. The RWQCB’s March 24, 2011 letter states, *“In considering the JPA’s compliance with the Compliance Schedule, the Water Board will extend the dates of the remaining Conversion Schedule tasks contained within Agreement paragraph B.1 for a period not to exceed the actual delay resulting from this force majeure event.”*
- The City and District still consider the Compliance Schedule to be in a “force majeure event”, until further information becomes available to develop a tentative schedule for siting, planning, designing, financing, and construction of a new WRF.

Major Repair and Maintenance Plan (“MMRP”)

On February 14, 2013 at their regularly scheduled JPA meeting, the Morro Bay City Council and Cayucos Sanitary District Board of Directors approved the development of a MMRP to assist the City and District in projecting the budgeting of expenditures required to keep the current plant operating and in compliance with regulatory requirements. The MMRP is based on a conservative engineering approach that assumes the plant will need to remain in service and operational for at least seven to ten years and that significant improvements will be required to maintain operational efficiency and compliance. The ten year time period is a conservative estimate based on the time schedule provided by Dudek in the Fine Screening Analysis. Moving the project to the Righetti site for example, could involve up to a ten-year project completion window. The MMRP would be reviewed and revised on an annual basis during the budget preparation process. A copy of the draft MMRP schedule is shown below.

DRAFT MMRP SCHEDULE

FY 13/14	FY14/15	FY15/16	FY16/17	FY 17/18
Headworks Screening	Primary Clarifier Repairs	Primary Clarifier Repairs		
Clean/Repair Digester #2	Clean/Repair Digester #1		Clean/Repair Digester #3	
Chlorine Contact Tank Repairs			Secondary Clarifier Repairs	SCADA
Interstage Pump Project	Electrical Upgrade			Electrical Upgrade
Chlorine Building Rehabilitation	Biofilter Rehabilitation	Biofilter Rehabilitation		
	Flood Related Issues			
Miscellaneous Equipment Repair and Replacement				
Facility Maintenance				
\$1.2M				

The adopted budget for FY 13/14 contains MMRP projects outlined in the draft MMRP schedule. Specifically, the City and District funded the purchase and installation of new influent screens at the headworks (\$500K), replacement of the chains and flights in the chlorine contact tank (\$200K), the cleaning and repairs to digester #2 (\$250K), an interstage pump and valve rebuild and replacement project (\$50K), and the rehabilitation of the chlorine building (\$40K). All of these projects are currently in progress and staff anticipates completion within the fiscal year. In addition, staff is working with consultants to further investigate plant processes and equipment to further refine the draft MMRP schedule.

NPDES permit No CA 0047881 (Order No R3-2008-0065) contains the following conversion schedule

City of Morro Bay/Cayucos Sanitary District 8-Year Conversion Schedule

Task	Scheduled Date of Completion¹	Actual Completion
Preliminary Activities:		
1. Issuance of Request for Consulting Engineering Proposals for Facilities Master Plan	November 11, 2005	September 2005
2. Award of Consulting Engineering Contracts	April 27, 2006	April 2006
Facilities Planning:		
1. Submit Final Draft Facilities Master Plan	November 30, 2007	September 2007
2. Submit Final Facilities Master Plan	September 30, 2009	
Environmental Review and Permitting:		
1. Complete and Circulate Draft CEQA Document	February 27, 2009	September 20, 2010
2. Certification of Final CEQA Document	December 31, 2009	January 11, 2011
3. Submit proof of application for all necessary permits	June 1, 2010	
4. Obtain all necessary permits	May 31, 2011	
Financing:		
1. Complete Draft Plan for Project Design and Construction Financing	December 31, 2007	October/November 2007
2. Complete Final Plan for Project Financing	June 30, 2008	
3. Submit proof that all necessary financing has been secured, including compliance with Proposition 218	October 30, 2009	
Design and Construction:		
1. Initiate Design	September 30, 2010	March 2010
2. 30 Percent Design	April 29, 2011	
3. 60 Percent Design	July 29, 2011	
4. 90 Percent Design	September 30, 2011	
5. 100 Percent Design	December 27, 2011	
6. Issue Notice to Proceed with Construction	March 29, 2012	
7. Construction Progress Reports	Quarterly (with SMRS)	
8. Complete Construction and Commence Debugging and Startup	January 31, 2014	
9. Achieve Full Compliance with Secondary Treatment	March 31, 2014	

1. Liquidated damages shall be \$250/day for the first 180 days if the Discharger fails to achieve compliance with the requirements by the date specified in the Conversion Schedule. For the next 185 days, liquidated damages shall be \$500/day until the Discharger achieves full compliance with the requirements. After 365 days, liquidated damages shall be \$1,000/day until the Discharger achieves full compliance with the requirements.