

CENTRAL CONTRA COSTA SANITARY DISTRICT SPILLEMERGENCY RESPONSE PLAN WDID # 255010105

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Approved and Accepted:

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1. CHANGE LOG

Date	Description	Pages	Responsible Person
Feb. 2007	Plan Effective Date	All	William Brennan
Aug. 2014	Major Revision	All	Paul Seitz
Apr. 2017	Minor Updates	All	Paul Seitz
Oct. 2020	Minor Updates - CRW	9	Paul Seitz
Apr. 2021	 Minor Updates Volume estimation photos Updated flow chart to include EBMUD contact information 	14, 27-36	Paul Seitz
June 1, 2023	Major revision • WQ 2022-0103-DWQ Waste Discharge Requirements	All	Paul Seitz
June 1, 2025	Major Updates Annual review/assess effectiveness/update 	All	Paul Seitz

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2. INTRODUCTION

A. Purpose and Policy

Purpose: The purpose of this plan is to ensure that Central Contra Costa Sanitary District (CentralSan) personnel follow established guidelines in responding to, containing, cleaning, and decontaminating sanitary sewer spills and backups that may occur within CentralSan's service area to safeguard public health and the environment. This plan is a companion document to Element 6 of CentralSan's Sewer System Management Plan (SSMP).

Policy: CentralSan employees are required to report all wastewater spills found and to take the appropriate action to secure the wastewater spill area, relieve the cause of the spill, and ensure that the affected area is cleaned as soon as possible to minimize health hazards to the public and to protect the environment.

CentralSan's goal is to respond to sanitary sewer spills immediately following notification. CentralSan will follow reporting procedures regarding spills set forth by the San Francisco Bay Regional Water Quality Control Board (RWQCB) and the State Water Resources Control Board (SWRCB).

Sanitary Sewer Spill Response Policy

- 1. CentralSan's goals upon receiving notification of a Spill are to:
 - Respond as soon as possible (within 20 minutes during working hours, within 40 minutes after hours);
 - Protect public health, the environment, and property;
 - Prevent the discharge of untreated or partially untreated wastewater to Waters of the State to the extent possible;
 - Prevent, to the extent possible, the creation of a nuisance as defined in CWC Section 13050(m); and
 - Restore affected areas to normal as soon as practicable.
- 2. CentralSan strives to operate, manage and maintain all parts of the publicly owed Sanitary Sewer System in a manner that will prevent spills and mitigate the impact of the spills that do occur.
- 3. CentralSan responds to all spills, regardless of the size or location of the spill. Highrisk areas shall include, but not be limited to:
 - a. the proximity of the spill to sensitive populations, specifically public and private schools, parks, and recreational areas, as well as high-density commercial and residential locales
 - b. discharges to surface waters, especially during the recreational season from May to September

- c. any other location which poses an imminent and substantial endangerment to the public health or the environment
- 4. This Plan is designed to ensure that all reasonable steps are taken to contain and prevent the discharge of untreated or partially treated wastewater to the Waters of the State and to minimize or correct any adverse impact on the environment resulting from a spill.
- 5. CentralSan staff are required to report all spills that have been reported or discovered to CentralSan management.
- 6. CentralSan is required to take appropriate actions to secure the impacted area, relieve the cause of the spill, and ensure the affected area is cleaned as soon as possible to minimize health hazards to the public and protect the environment. If there is any reasonable risk that the public may come into contact with sewage, CentralSan will post and maintain appropriate notification signs and place barricades and other traffic control devices to keep vehicle and pedestrian traffic away from contact with sewage.
- 7. CentralSan only collects water quality samples for ALL Category 1 Spills over 50,000 gallons. The Field Superintendent or a Field Supervisor will collect, transport, and submit water quality samples for analysis to Central San's Laboratory at our Treatment Plant in Martinez, California. Samples are taken at or near where the spill reaches the surface water (site), approximately 100 feet upstream and downstream of the entry point. The samples are collected as soon as the blockage has been cleared, or if additional staff are available. Completing the sampling activities is in concurrence with clearing the blockage. The samples are analyzed for ammonia, total coliform, fecal coliform, enterococcus, and e-coli. Additional follow-up samples are recommended to confirm the extent that the impact reverts to baseline levels. If signs were posted, follow-up samples are performed to determine if the posting of warning signs should

be discontinued. Collaboration with the Office of Emergency Services, Fish and Wildlife, and the County Health Department shall continue until closures have been removed.

8. In addition, CentralSan hires a third-party Biologist to inspect and review the clean-up and provide any further remediation recommendations for all Category 1 spills regardless of the volume. We request that the biologist perform their inspection within 48 hours of the notification of a Category 1 spill. Once the biologist has completed their inspection, a report is submitted to CentralSan documenting the clean-up, remedial recommendations, and any impacts to the receiving waters. The biologist report is then attached to the Category 1 spill report and records.

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Authority: (See References)

- Health & Safety Code Sections 5410 5416
- Fish and Game Code Sections 5650 5656
- California Water Code Section 13271
- SWRCB Order Number WQ 2022-0103-DWQ

B. Prohibitions

Prohibitions as outlined in Order Number WQ 2022-0103-DWQ Statewide Waste Discharge Requirements (WDR), Sections 4.1, 4.2 and 4.3.

• Discharge of Sewage from a Sanitary Sewer System

Any discharge from a sanitary sewer system that has the potential to discharge to surface waters of the State is prohibited unless it is promptly cleaned up and reported as required in this General Order. (WDR section 4.1, page 17)

• Discharge of Sewage to Waters of the State

Any discharge from a sanitary sewer system, discharged directly or indirectly through a drainage conveyance system or other route, to waters of the State is prohibited. (WDR 4.2, pgs. 16-17)

• Discharge of Sewage Creating a Nuisance

Any discharge from a sanitary sewer system that creates a nuisance or condition of pollution as defined in Water Code section 13050(m) is prohibited. (WDR 4.3, pg. 18)

3. REQUIREMENTS

A. Spill Emergency Response Plan Requirements

The Spill Emergency Response Plan (SERP) requirements are included in the Statewide Waste Discharge Requirements for Sewer Systems – Order WQ 2022-0103-DWQ (WDR), dated December 6, 2022, and effective of June 5, 2023.

Section 5.12, page 23 of the WDR specifically states:

Spill Emergency Response Plan and Remedial Actions

For Existing Enrollees (with regulatory coverage under Order 2006-0003-DWQ):

Within six (6) months of the Adoption Date of this General Order, the Enrollee shall update and implement its Spill Emergency Response Plan, per Attachment D, section 6 (Spill Emergency Response Plan) of this General Order.(Continuation of Regulatory Coverage has been confirmed by SWRCB per letter dated April 5, 2023).

For New Enrollees:

Within six (6) months of the Application for Enrollment approval date, the Enrollee shall develop and implement a Spill Emergency Response Plan, per Attachment D, section 6 (Spill Emergency Response Plan) of this General Order.

The Enrollee shall certify, in its Annual Report, that its Spill Emergency Response Plan is up to date.

The Spill Emergency Response Plan shall include measures to protect public health and the environment. The Enrollee shall respond to spills from its system(s) in a timely manner that minimizes water quality impacts and nuisance by:

- Immediately stopping the spill and preventing/minimizing a discharge to waters of the State;
- Intercepting sewage flows to prevent/minimize spill volume discharged into waters of the State;
- Thoroughly recovering, cleaning up and disposing of sewage and wash down water; and
- Cleaning publicly accessible areas while preventing toxic discharges to waters of the State.

CentralSan had existing regulatory coverage under Order 2006-0003-DWQ and is subject to the abovementioned requirements. The WDR is dated December 6, 2022, and therefore, CentralSan must update and submit our revised SERP by June 5, 2022.

Additionally, the WDR requires that the SERP be updated and implemented per Attachment D, section 6 (Spill Emergency Response Plan). Attachment D, section 6 specifically states: **ATTACHMENT D - SECTION 6. SPILL EMERGENCY RESPONSE PLAN**

The Plan must include an up to date Spill Emergency Response Plan to ensure prompt detection and response to spills to reduce spill volumes and collect information for prevention of future spills. The Spill Emergency Response Plan must include procedures to:

- Notify primary responders, appropriate local officials, and appropriate regulatory agencies of a spill in a timely manner; (See Section 3A-E pgs. 6-10, 4D pg. 16, 5C pgs. 62-63)
- Notify other potentially affected entities (for example, health agencies, water suppliers, etc.) of spills that potentially affect public health or reach waters of the State; (See Section 3A-E pgs. 6-10)
- Comply with the notification, monitoring and reporting requirements of this General Order, State law and regulations, and applicable Regional Water Board Orders; (See Section 3A-E pgs. 6-10)
- Ensure that appropriate staff and contractors implement the Spill Emergency Response Plan and are appropriately trained; (See Section 7B pg. 86)
- Address emergency system operations, traffic control and other necessary response activities; (See Section 5C, 8A, 11)
- Contain a spill and prevent/minimize discharge to waters of the State or any drainage conveyance system; (See Section 4E)
- Minimize and remediate public health impacts and adverse impacts on beneficial uses of waters of the State; (See Section 5C)
- Remove sewage from the drainage conveyance system; (See Section 5C)
- Clean the spill area and drainage conveyance system in a manner that does not inadvertently impact beneficial uses in the receiving waters; (See Section 5C)
- Implement technologies, practices, equipment, and interagency coordination to expedite spill containment and recovery; (See Section 5C)
- Implement pre-planned coordination and collaboration with storm drain agencies and other utility agencies/departments prior, during, and after a spill event; (See Section 5C)
- Conduct post-spill assessments of spill response activities; (Review All Spills, Stoppages, and Failed QA/QC at Biweekly Operations Meeting. Document findings on the Spills and Stoppages Analysis Spreadsheet)

	Spills and S	toppages	Analysis Spreadsheel	t													PM = or > 48 months	Contractor or vandlism	
	CY 2023					Overflows	2		Total G	al	3,140	CAT 1	1	Total Gal	425		Roots In MH	Roots under permainer	
						Stoppages	4										Calculated cell		
_														Last					
	Date	Event ID	Street / City	U/S MH	D/S MH	Length	OF	Stop	Gals	Gals Returned	Cause	Size/Mati	PM Freq	cleaned	past	Crew Ldr	Inspection Comments	Ops Mtg Recommended Action	Status
1	01/09/23		Mt. Diablo Blvd / Laf	72B3-M56	72B3-M55	377		1			RP	8-VCP	RD-3	10/06/22	3	Walker	RP-287'	Remain on RD-3	complete
2	01/14/23	547127	Spring Rd / Orinda	69E6-M84	69E6-M14	167	-		425	0	RP	8-PVC	HF-84	08/03/20	29	Sarras	RP-2'	Sched to HF-24	complete
3	02/12/23		Miner Rd / Orinda	69E2-M9	69E2-M5	318		1			OP OP	6-VCP	RD-12	06/13/22	8	Nwansi	OP=Clay Pipe-41'	Remain on RD-12	compiete
4	02/28/23	886843	Meler Rd / PH	46E3-M50	46E3-M49	265	1		2,715	100	GP	6-VAR	HS-12	06/08/22	9	Sarras	GP-59'	Sched to HS-6	complete
5	03/15/23		Candelero Dr / WC	49D4-M107	49D4-M106	78		1			OP	6-CIP	HF-84	07/30/15	92	Crouch	OP-RAGS-71	Remain on HF-84	complete
6	04/25/23		N Peardale / Laf	71C2-M60	71C2-M52	265		1			RP	8-CIP	HF-84	06/15/15	94	Harbaugh	RP-140'		
7															0				
8															0				
9															0				
10															0				
11															0				
12															0		1		

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- Document and report spill events as required in this General Order; and (See Section 5C, Library, CityWorks)
- Annually, review and assess effectiveness of the Spill Emergency Response Plan, and update the Plan as needed. (See Section 7A and tracked in regulatory calendar)

In addition to the new requirements outlined in the WDR for the SERP, there has been a large change in the Notification, Monitoring, and Reporting requirements for Spills. These changes are summarized in Attachment E1 – Notification, Monitoring and Reporting, and Record Keeping Requirements of the WDR. (See Appendix B)

Below are Tables E2-1 through E2-5 that specifically state the requirements for Notification, Monitoring, and Reporting Spills.

Spill Requirement	Due	Method
Notification	Within two (2) hours of the Enrollee's knowledge of a Category 1 spill of 1,000 gallons or greater, discharging or threatening to discharge to surface waters: Notify the California Office of Emergency Services and obtain a notification control number.	California Office of Emergency Services at: (800) 852-7550 (Section 1 of Attachment E1)
Monitoring	 Conduct spill-specific monitoring; Conduct water quality sampling of the receiving water within 18 hours of initial knowledge of spill of 50,000 gallons or greater to surface waters. 	(Section 2 of Attachment E1)
Reporting	 Submit Draft Spill Report within three (3) business days of the Enrollee's knowledge of the spill; Submit Certified Spill Report within 15 calendar days of the spill end date; Submit Technical Report within 45 calendar days after the spill end date for a Category 1 spill in which 50,000 gallons or greater 	(Section 3.1 of Attachment E1)

B. Spill Category 1: Spills to Surface Waters

 discharged to surface waters; and Submit Amended Spill Report within 90 calendar days after the spill end date. 	

C. Spill Category 2: Spills of 1,000 Gallons or Greater That Do Not Discharge to Surface Waters

Spill Requirements	Due	Method
Notification	Within two (2) hours of the Enrollee's knowledge of a Category 2 spill of 1,000 gallons or greater, discharging or threatening to discharge to waters of the State: Notify California Office of Emergency Services and obtain a notification control number.	California Office of Emergency Services at: (800) 852-7550 (Section 1 of Attachment E1)
Monitoring	Conduct spill-specific monitoring.	(Section 2 of Attachment E1)
Reporting	 Submit Draft Spill Report within three (3) business days of the Enrollee's knowledge of the spill; Submit Certified Spill Report within 15 calendar days of the spill end date; and Submit Amended Spill Report within 90 calendar days after the spill end date. 	(Section 3.2 of Attachment E1

D. Spill Category 3: Spills of Equal or Greater than 50 Gallons and Less than 1,000 Gallons That Does Not Discharge to Surface Waters

Spill Requirements	Due	Method
Notification	Not Applicable	Not Applicable
Monitoring	Conduct spill-specific	(Section 2 of
	monitoring.	Attachment E1)
Reporting		(Section 3.3 and 3.5 of
	Submit monthly Certified Spill	Attachment E1)
	Report to the online CIWQS	
	Sanitary Sewer System	
	Database within 30 calendars	
	days after the end of the month	
	in which the spills occur; and	
	Submit Amended Spill	
	Reports within 90 calendar	
	days after the Certified Spill	
	Report due date.	

E. Spill Category 4: Spills Less Than 50 Gallons That Do Not Discharge to Surface Waters

Spill Requirements	Due	Method
Notification	Not Applicable	Not Applicable
Monitoring	Conduct spill-specific	(Section 2 of Attachment E1)
	monitoring.	
Reporting		(Section 3.4, 3.6, 3.7 and 4.4 of
	 If, during any calendar month, 	Attachment E1)
	Category 4 spills occur, certify	
	monthly, the estimated total spill	
	volume exiting the sanitary	
	sewer system, and the total	
	number of all Category 4 spills	
	into the online CIWQS Sanitary	
	Sewer System Database, within	
	30 days after the end of the	
	calendar month in which the	
	spills occurred.	
	• Upload and certify a report, in	
	an acceptable digital format, of	
	all Category 4 spills to the	
	online CIWQS Sanitary Sewer	
	System Database, by February	
	1st after the end of the calendar	
	year in which the spills occur.	

Spill Requirements	Due	Method
Notification	Within two (2) hours of the Enrollee's knowledge of a spill of 1,000 gallons or greater, from an enrollee-owned and/or operated lateral, discharging or threatening to discharge to waters of the State: Notify California Office of Emergency Services and obtain a notification control number. Not applicable to a spill of less than 1,000 gallons.	California Office of Emergency Services at: (800) 852-7550 (Section 1 of Attachment E1)
Monitoring	Conduct visual monitoring.	(Section 2 of Attachment E1)
Reporting	 Upload and certify a report, in an acceptable digital format, of all lateral spills (that do not discharge to a surface water) to the online CIWQS Sanitary Sewer System Database, by February 1_{st} after the end of the calendar year in which the spills occur. Report a lateral spill of any volume that discharges to a surface water as a Category 1 spill. 	(Sections 3.6, 3.7 and 4.4 of Attachment E1)

F. Enrollee Owned and/or Operated Lateral Spills That Do Not Discharge to Surface Waters

4. PROCEDURES

A. Customer Relations and Communication Tips

Customer Relations

Employees must communicate effectively with CentralSan customers, especially when there are spills. How we communicate – on the phone, in writing, or in person – is how we are perceived. Good communication with customers results in greater confidence in our ability to address their problems satisfactorily. There will be less chance of having a customer prolong the claims process and less opportunity that a customer will exaggerate the damage done to their property.

As a representative of CentralSan, you will occasionally have to deal with an irate customer. A sewer spill is a stressful event, and even a reasonable person can become irate if they perceive us as indifferent, uncaring, unresponsive, or incompetent.

Although sometimes difficult, effective management of a spill situation is critical. If it is not well managed, the situation can end up in a costly, prolonged process with the customer. We want the customer to feel assured that we are responsive and that our top priority is the customer's best interest.

Communication Tips

- Give the customer ample time to explain the situation or to vent. Show interest in what the customer has to say, no matter how often you've heard it before or how well you understand the problem.
- As soon as possible, let the customer know that you will determine if the source of the sewer spill is in the main and, if it is, that you will have it corrected as quickly as you can.
- Acknowledge the customer's concerns. For example, if the customer seems angry or worried about property damage, you could say something like, "I understand you're concerned about the possible damage to your property, but a professional clean-up crew can restore the area, and if it is determined that CentralSan is at fault, the property owner has the right to file a claim for any reasonable repairs or losses resulting from this incident."
- Express understanding and empathy for any inconvenience caused by the incident but do not admit fault.
- As much as possible, keep the customer informed on what is being done and what will be done to correct the problem.
- Keep focused on getting the job done in a very professional manner. Don't wander from the problem with too much unnecessary small talk with the customer.
- Do not find fault or place blame on anyone.

B. How to Clear a Stoppage With a Rodder

Follow All Required Safety Procedures

- * All Employees Shall Have and Use All Appropriate PPE
- * All Necessary Traffic Controls Shall be in Place
- * Follow all Safety Directive Requirements (Air Monitoring, Respiratory Protection etc.)

↓
Identify the location of the stoppage.
Locate spilling manhole or rodding inlet. Isolate plugged portion by finding non- standing manholes connected to standing manholes.
Take photos of the spilling structure and spill area, then notify your supervisor.
Set up on appropriate manhole. Usually this is downstream of the blockage. Depending on location, geography, safety or other concerns, it may be necessary to set up on the upstream manhole.

\checkmark			
Rodding			
Attach an undersized auger to the rod (i. e. 4" auger for a 6" line) and lower into the line.			
Rotate the auger and advance the rod until you achieved blow down. Make note of your footage.			
Run up to the next structure, after blow down has relieved itself, rum auger to upstream structure (verify by visual inspection).			
Once the line is open and you have sewage blow-down into the manhole, change to a cutter blade to re-clean the line and remove the rest of the debris.			

Follow Up				
Once the spill has stopped, use approved methods for estimating total spill volume and amount of spill returned to the collection system where applicable. Attach photos to estimate.				
Complete the Spill/Stoppage Response Form (Orange sheet). Attach copies of maps, GPS Coordinates, spill estimates, photos and line maintenance history to the form. Submit these items to your supervisor by the start of the next workday. CCTV line within two days for all Sanitary Sewer Spills and Stoppages.				

C. Spill Response Tactics

The following chart is intended as a guide to generate ideas about responding to sewer spills. Each indicated response tactic might not be appropriate for a given sewer spill. Always choose the tactic that best meets the circumstances at the time and the resources available. Protecting our employees, the public, and environmental health should always be considered when responding to a sewer spill.

	SPILL Cause										
Possible Solutions	Capacity due to gradient	Capacity due to undersized line	Capacity due to surcharged system	Collapse	Debris in Manhole	Debris in Line	Grease	Miscellaneous Plug	Roots	Pump Station Failure	Power Failure
Hydro Jet				\checkmark		\checkmark	\checkmark	\checkmark	\checkmark		
Rodder				\checkmark		\checkmark	\checkmark	\checkmark	\checkmark		
Vacuum Truck	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
TV Van						\checkmark	\checkmark	\checkmark	\checkmark		
Backhoe *				\checkmark							
Hand Tools					\checkmark						
Bypass Piping	\checkmark	\checkmark		\checkmark				\checkmark	\checkmark		
Bypass Pumping	\checkmark	\checkmark		\checkmark				\checkmark	\checkmark	\checkmark	\checkmark
Manhole Entry **					\checkmark						
Storage Tanks or Set Up Ponds	~	\checkmark	\checkmark								
USA Request *				\checkmark							
Backup Generators										\checkmark	\checkmark

* USA Requests: 811

** Confined Space Entry Procedures are required

D. Spill Containment Procedures

The spill must be contained. Containment becomes more complicated if the spill reaches the storm drain system or a drainage channel since the spill can rapidly contaminate receiving waters such as creeks, streams, rivers, and other bodies of water. During dry weather, the storm drain system can be used to store the spill if it can be plugged downstream or if the downstream storm drain pump station can be deactivated.

Options for Containing the Spill

Spill onto Ground:

- Place rubber mats at the catch basin or inlet
- Place sand bags in the gutter and around catch basin or inlet
- □ Use plastic sheeting to prevent the flow from advancing toward storm drain and culverts
- Dig an earthen trench or build a berm to create a pond

Spill into Building:

- □ Evacuate affected people if necessary
- Remove backwater cap or plug from the cleanout as soon as possible to reduce flow into the building
- Use sand bags and plastic sheeting as necessary
 - Avoid electrical shock by turning power off if outlets or other energized equipment is wet or sitting in water

Spill into Storm Drain or Drainage Channel:

- Trace the spill in the storm drain system to it's downstream end point
- Plug all affected storm system outlets and coordinate with appropriate personnel to implement a containment strategy
- Turn off storm water pump station
- Quick dam deployment

Required Equipment

Spills onto Ground or into Buildings:					
Rubbe	er Mats 🛛	Absorbent Materials	Bypass Pumps and Pipe/Hose		
Sand	Bags 🛛	Plastic Sheeting	Vacuum Truck		
Spills into Storm Dra	in or Drainage Cha	annel:			
		Plugs	Vacuum Truck		
		Bypass Pump	Sand Bags		
Spills at a Pump Stat	ion:				
		Bypass Pump/Hoses	 Emergency Generator Vacuum Truck 		

E. Post-Spill Sampling for CAT 1 Spills over 50,000 gallons and Posting Procedure

- 1. Get four (4) Field Sampling Kits from the yard and fill the coolers with ice from the warehouse and binder.
- 2. Determine the point where the spill entered the waterway. Photograph this location. Be sure to include a reference point in the photo.
- 3. Don appropriate PPE for sampling activities.

4. Sampling Notes:

- Collect all samples against the direction of water flow.
- First take a reference sample: move 100' upstream of the spill entry point into the waterway.
- Take another sample at the spill entry point into the waterway.
- Take another sample at least 100' downstream of the spill entry point into the waterway.
- If the spill went through a drainage conveyance system, collect a sample at the entry point of the drainage conveyance system (DCS-001)
- Photograph evidence of any dead fish or other aquatic life loss.

5. Sampling Procedure:

- a) Collect samples well away from the bank, preferably at a point where the water is visibly flowing.
- b) Bottle 1 & 2 & sacrificial sample collection vessel: e.Coli & Coliform/Enterococcus Sample (3-290mL plastic with sodium thiosulfate)
- Remove the seal and cap from the sacrificial sterile sampling container. This container will be used to fill bottles 1 and 2.
- Remove the seal from bottle 1 just prior to collecting the sample. A chemical has been added to the sample container. Leave the chemical in the bottle and do not rinse.
- Remove the cap immediately before collecting each sample.
- Do not allow the inside of the cap to touch anything.
- Collect the sample using the sacrificial steril container and fill bottle 1 to the 250mL line and immediately replace the cap.
- Label the bottle with the site ID and time/date of collection and fill out COC
- Repeat for Bottle 2
- c) **Bottles 3a & 3b: Ammonia Sample** (290mL plastic with sodium thiosulfate & 250mL plastic with Sulfuric Acid)
- First fill bottle 3a (using the sacrificial sample bottle from step b) with sample (bottle 3a contains sodium thiosulfate to dechlorinate the sample, do not rinse the container)
- Second pour the contents of bottle 3a into bottle 3b (bottle 3b contains Sulfuric Acid to preserve the sample, do not rinse the container and observe safe handling with Acid)
- Label Bottle 3b with the site ID and time/date of collection and fill out COC
- d) Label the samples with their location and note the date and time collected.
- e) Place the samples in the cooler.

f) Photograph the sample location. Be sure to include a reference point in the photo.

6. Complete the Chain of Custody form from the Sampling Kit (see example on page 73).

 Immediately contact Central San lab to advise them that the following samples require processing: Enterococcus/Coliform/e.Coli – Holding Time = <6 hours 				
8. Take coolers containing the sa	mples and completed Chain of Custody form to the lab.			
9. Post warning signs as directed	by the County Environmental Health Department.			
10. Repeat Ammonia (Hach) sam set of samples indicate norm	npling until the results of two consecutive al levels.			
11. Remove warning signs and lit	ft restrictions, if applicable.			
Field Sampling Kit Inventory				
\Box Cooler with ice (4 ea)	Waterproof pen (e.g. Sharpie)			
□ Safety Glasses	\Box Sacrificial bottle for sampling (290mL sterile plastic), 1 per cooler			
Latex Gloves	\Box Bottle 1 & 2 (Enterococcus/Coliform & e.coli Samples) (290 ml sterile			
Digital/Disposable Camera	Digital/Disposable Camera plastic bottle), 1 set of 2 per cooler			
Chain of Custody Binder	\Box Bottles 3a & 3b (Ammonia Sample) bottles (290mL dechlorination bottle			
\Box Chain of Custody Form	& 250mL plastic w/H2SO4), 1 set of 2 per cooler			
\square 30 sample bottle labels				

F. Methods for Determining Flow Volume

1. Eyeball Estimation Method

	Form #					
	Eyeball Estimation Method Worksheet					
	Use this method only for small spills of less than 200 gallons.					
Spill Date	Spill Date:					
STEP 1:	Position yourself so that y	ou have a vantage	point where you can s	ee the entire spill.		
STEP 2:	Imagine one or more buck select a bucket or barrel s bucket/barrel size.	kets or barrels of w ize as a frame of re	ater tipped over. Depe ference. It may be ne	ending on the size of th cessary to use more th	e spill, an one	
STEP 3:	Estimate how many of eac those numbers in Column sizes you are using as a fra	ch size bucket or ba A of the row in the ame of reference.	rrel it would take to n table below that cor	nake an equivalent spil responds to the bucket	l. Enter /barrel	
STEP 4:	Multiply the number in Co	olumn A by the mu	tiplier in Column B. E	inter the result in Colur	mn C.	
		Α	В	С		
	Size of bucket(s) or barrel(s)	How many of this size?	Multiplier	Estimated Spill Volume (gallons) ¹		
	1 gallon water jug		x 1 gallons		1	
	5 gallon bucket		x 5 gallons			
	32 gallon trash can		x 32 gallons]	
	55 gallon drum		x 55 gallons]	
	Other: gallons		x gallons]	
	And the States of the	Estir	nated Spill Volume:]	
STEP 5: STEP 6:	Is rainfall a factor in the sp If yes, what volume of the If yes, describe how you d Calculate the estimated sp	bill? Yes No observed spill volu etermined the amo bill volume by subtr	ume do you estimate i ount of rainfall in the o racting the rainfall from	s rainfall? observed spill? m the spill volume:	<u>gallons</u>	
	rallor		gallons -		gallans	
	Estimated Spill Volume	Rainfall	Total E	stimated Spill Vol	ume	
 Do you believe that this method has estimated the entire spill? □ Yes □ No If no, you MUST use additional methods to estimate the entire spill. If yes, it is advisable to use additional methods to support your estimation. Explain why you believe this method has or has not estimated the entire spill: 						
This wor Name: Job Title:	ksheet completed by:		Signature: Date:		Don't forget photosel	
SMART	Sewer Overflow Volume Estimation Workbook			©2013 DKF Solution All rights reserved. www.	s Group, LLC. dkfsolutions.com	

Form # Area/Volume Method Worksheet: Ponded Sewage (Page 1 of 2) Spill Date: Location: STEP 1: Describe spill area surface: □Asphalt □Concrete □Dirt □Landscape □Inside Building □Other: STEP 2: Draw/sketch the outline (footprint) of the spill. Then break the footprint down into recognizable shapes. Refer to the example on the Area/Volume Method: Ponded Sewage Reference Page 1. Calculate the area of the footprint. Complete the table below for each shape identified in Step 2. STEP 3: If two shapes overlap, select one of the two shapes and estimate the percentage of that shape that does not overlap. Enter that percentage in the % Not Overlapping column. This will ensure that the overlap area is only counted once. Refer to the example on the Area/Volume Method: Ponded Sewage Reference Page 1. Rectangles % Not Overlapping Length X Width X Area = X ft ft X % = ft2 ft X ft X % ft2 = ft x ft X % ft² = Triangles Base X Height Multiplier X % Not Overlapping = Area ft X ft X +2 % = ft2 ft X ft x +2 % = ft² ft x ft ÷2 X % = ft² Circles X Radius X Radius X % Not Overlapping π = Area 3.14 X ft X ft X % ft2 X 3.14 X X ft ft % ft² = 3.14 X ft X ft % X = ft² Total Spill Area (sum of all three tables above): ft² STEP 4: Calculate the volume of the spill that was NOT absorbed into the ground. If the entire spill was absorbed, skip to Step 5. If the spill is of varying depths, take several measurements at different depths and find the average. a. inches ÷ inches ÷ 12 = feet sum of measurements # of measurements average depth in inches average depth in feet of ponded sewage Calculate spill volume of ponded sewage in cubic feet by multiplying the Total Spill Area in Step 3 by b. the average depth calculated in Step 4a. Convert from cubic feet to gallons by multiplying by 7.48. ft² x ft³ x 7.48 gal = _ ft = _ gallons spill area (Step 3) average depth (Step 4a) spill volume in estimated volume of cubic feet ponded sewage GO TO PAGE 2 SMART Sewer Overflow Volume Estimation Workbook ©2013 DKF Solutions Group, LLC. All rights reserved. www.dkfsolutions.com

2. Area/Volume Method: Ponded Sewage

		Form #
	Area/Volume Method Worksho	eet: Ponded Sewage <i>(Page 2 of 2)</i>
STEP 5:	Calculate the volume of the spill that <u>was abso</u> guidelines from the Area/Volume Method: Por of performing the calculations in Steps 5a and 5	rbed into the ground. If only a wet stain is observed, use the nded Sewage Reference Page 1 for the average depth instead 5b below.
	a. In order to perform this calculation, you method described on Area/Volume Met	must first determine the water content in the soil using the thod: Ponded Sewage Reference Page 2:
	Volume of known quantity of water:	V ₁ = gallons
	Area of wetted footprint:	$A = \underline{\qquad \qquad ft^2}$
	Average Depth of Wet Soil:	D =ft
	Volume of Wet Soil in Feet = A x D	$V_2 = \underline{ft}^3$
	Convert cubic feet to gallons = $V_2 \times 7.48$	V ₃ =gallons
	Calculate water content in soil $V_1 \div V_3 x$	100 Water Content =%
	b. Calculate the depth of the actual sewage depth of the wet soil in several locations average depth of the wet soil by taking s average. Convert the measurement to fer	e spill that was absorbed into the ground. First, measure the within the wetted area of the sewage spill. Determine the everal measurements at different depths and finding the eet:
	<u>inches</u> ÷ sum of measurements # of measure	ments = inches ÷ 12 = feet average depth in inches average depth in feet
	 Calculate volume of the spill that was ab Spill Area from Step 3 by the average de gallons by multiplying by 7.48. Then multiplying by	assorbed into the ground in cubic feet by multiplying the Totalapth calculated in Step 5b. Then convert from cubic feet toItiply by the water content percentage determined in Step 5a.ft ³ x 7.48 gal xmeblumewater contentestimated volume of absorbed sewage
STEP 6:	Add the volume not absorbed (Step 4) plus the	volume absorbed (Step 5) to get the total estimated volume:
	gallons +gal	llons = gallons
	volume not absorbed volume absorbed	Total Estimated Spill Volume
	Do you believe that this method has estimated t	the entire spill? 🗆 Yes 🛛 No
	 If no, you MUST use additional methods to If ves. it is advisable to use additional methods 	estimate the entire spill.
	Explain why you believe this method has or has	not estimated the entire spill:
This works	heet completed by:	
Name:		Signature:
Job Title:		Date:
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Sewer Overflow Volume Estimation Workbook

Area/Volume Method: Ponded Sewage Reference Page 1 of 2

Miscellaneous computations:

Computation	Formula/Guide			
To convert inches to feet	Divide the inches by 12 or use the chart on the bottom right of this page.			
Volume of one cubic foot	7.48 gallons of water	7.48 gallons of water		
Area: Two-dimensional measurement represented in square feet.	Square/rectangle:Area = Length x WCircle:Area = πr^2 (whereTriangle:Area = $\frac{1}{2}$ (Base x H	idth π ≈ 3.14 and r = radius = ½ diameter) eight)		
Volume: Three-dimensional measurement represented in cubic feet.	Rectangle/square footprint:Volume = LeCircle footprint (cylinder):Volume = π (where $\pi \approx 1$ Triangle footprint:Volume = $\frac{1}{2}$	ength x Width x Depth tr ² x Depth 3.14 and r = radius = ½ diameter) (Base x Height) x Depth		
Depth: Contained or "Ponded" sewage Measure actual depth of standing sewage whenever possible. Wh varies, measure several representative sample points and determ average. Add the depth of the sample points and then divide that number of sample points.		whenever possible. When depth mple points and determine the ints and then divide that total by the		
If the depth is not measurable because it is only a depths: • Depth of a wet stain on concrete surface: 0.00 • Depth of a wet stain on asphalt surface: 0.00		is only a wet stain, use the following ace: 0.0026' (1/32") e: 0.0013' (1/64")		



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T Sewer Overflow Volume Estimation Workbook

Area/Volume Method: Ponded Sewage Reference Page 2 of 2

Example of how to determine the water content in wetted soil, measured as a percentage.

By determining the water content in the soil when a known quantity of water is used, it will be possible to estimate the sewage content in the soil where the actual spill occurred.

[Step	Example
	Select an area of dry soil (near the wetted footprint of the spill) to sample. If possible, use a form to keep the water contained to a geometric shape (circle, square, rectangle, etc.).	Place a 2 foot diameter form onto an area of dry soil.
V ₁	Pour a known amount of water onto the soil and let it soak in for an adequate amount of time. (This quantity is V_1 in Step 5 on the worksheet)	Pour one gallon of water into the form and let it soak in for 15 minutes.
Α	Pull the form and measure the AREA of the wetted soil. It will likely be larger than the form. (This measurement is A in Step 5 on the worksheet)	In this example, let's say the wetted soil footprint's diameter is 2 ft 2 in. We convert the inches to feet and get a diameter of 2.17 ft. The radius is $\frac{1}{2}$ of the diameter, so r = 1.085 ft
		So using the formula: Area = πr^2 (where $\pi \approx 3.14$) the area of the footprint is 3.14 x 1.085 ft x 1.085 ft = 3.70 ft ²
D	Using a small hand tool, dig down into the soil until dry soil is reached. Measure the DEPTH of the wet soil. Do this in multiple locations and average the measure- ments. Convert to feet. (This measurement is D in Step 5 on the worksheet)	Dig into the soil in 3 locations and measure the depth of the wetted soil. It is usually easiest to measure this depth in inches, so in this example we will measure in inches and then convert to feet. In this example, let's say we take the following measure- ments: 2½ inches, 1½ inches and 3¾ inches We convert the measurements to decimals and get 2.5 in, 1.5 in, and 3.75 in. Then we average the 3 measurements by adding them to- gether and then dividing by 3: 2.5 in + 1.5 in + 3.75 in = 7.75 in 7.75 in ÷ 3 = 2.58 in Convert the number to feet by dividing by 12: 2.58 in ÷ 12 in = 0.215 ft
V ₂	Multiply the AREA of the wet soil by the average DEPTH of the wet soil to determine the VOLUME of the wet soil in cubic feet. (This measurement is V_2 in Step 5)	3.70 ft ² x 0.215 ft ≈ 0.80 ft ³
V ₃	Multiply by 7.48 to convert the volume in cubic feet (ft ³) to the volume in gallons (gal). NOTE: This measurement is V_3 in Step 5	Multiply the volume in cubic feet by the conversion multiplier to get the volume in gallons 0.80 ft ³ x 7.48 gal/ft ³ = 6 gal
Water Content	 Calculate the water content in the soil: Since you started with a known amount, you know how much water is in the soil. Divide that known amount of water by the calculated volume of soil to get the percent of water content in the soil. 	Divide the known volume of water by the calculated volume of soil 1 gal ÷ 6 gal = .17 so 17% is the water content in the soil.

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General Reference – Calculations to be used for Area Method

SMART Sewer Overflow Volume Estimation Workbook

General Reference Page 1 of 2

Abbreviations and Symbols:

gal	gallons	
gpm	gallons per minute	
mgd	millions of gallons per day	
in	inch	
ft	foot	
ft²	square foot	
ft³	cubic foot	
min	minute	
sec	second	
cfs	cubic feet per second	
d	diameter	
r	radius = 1/2 diameter	
π	pi ≈ 3.14	

+	add
-	subtract
x	multiply
÷	divide
=	equal
*	approximately equal
%	percent
CCTV	sewer inspection camera
EDU	Equivalent dwelling unit. A dwelling unit is a single-family home. Commercial buildings may count as more or less than a single dwelling unit.

Diagrams:



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SMART Sewer Overflow Volume Estimation Workbook

General Reference Page 2 of 2

Conversions:

Convert FROM	Convert TO	Formula
hours	minutes	hours x 60 = minutes
days	minutes	days x 1440 = minutes
inches	feet	inches ÷ 12 = feet
feet	inches	feet x 12 = inches
square inches	square feet	$in^2 \div 144 = ft^2$
square feet	square inches	ft ² x 144 - in ²
cubic inches	cubic feet	$in^3 \div 1728 = ft^3$
cubic feet	cubic inches	ft ³ x 1728 = in ³
cubic feet	gallons	ft ³ x 7.48 = gallons

Convert Inches to Feet			
Inches	Feet		
1/8″	0.01'		
1/4"	0.02′		
3/8″	0.01'		
1/2″	0.04'		
5/8″	0.05'		
3/4″	0.06'		
7/8″	0.07'		
1″	0.08'		
2″	0.17′		
3″	0.25'		
4"	0.33		
5″	0.42′		
6″	0.50'		
7″	0.58′		
8″	0.67′		
9″	0.75′		
10″	0.83'		
11″	0.92'		
12″	1.00′		

.

Computations:

Computation	Formula/Guide	
Area: Two-dimensional measurement represented in square feet.	Square/rectangle: Area Circle: Area Triangle: Area	= Length x Width = πr ² (where π ≈ 3.14 and r = radius = ½ diameter) = ½ (Base x Height)
Volume: Three-dimensional measurement represented in cubic feet.	Rectangle/square footprint: Circle footprint (cylinder): Triangle footprint:	Volume = Length x Width x Depth Volume = πr^2 x Depth (where $\pi \approx 3.14$ and r = radius = ½ diameter) Volume = ½ (Base x Height) x Depth
Depth: Contained or "Ponded" Sewage	 Measure actual depth of standing sewage whenever possible. When depth varies, measure several representative sample points and determine the average. Add the depth of the sample points and then divide that total by the number of sample points. If the depth is not measurable because it is only a wet stain, use the following depths: Depth of a wet stain on concrete surface: 0.0026' (1/32") Depth of a wet stain on asphalt surface: 0.0013' (1/64") 	

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3. Volume/Duration and Flow Rate: Photo Comparison









OVERFLOW RATES for 25 1/4" NEW STYLE COVER Open Pick Hole




















OVERFLOW RATES for Private Lateral OPD







1 GPM

2 GPM

5 GPM



10 GPM

15 GPM

20 GPM



25 GPM

30 GPM

50 GPM

OVERFLOW RATES for **Private Lateral OPD** below grade







1 GPM

2 GPM

5 GPM



10 GPM

15 GPM

20 GPM



25 GPM

30 GPM



50 GPM

3001E-7/20

G. CLAIMS HANDLING

CentralSan staff shall offer a claim form to anyone upon request. All claims will be investigated, and decisions regarding claims will be made as required by government code 910 et. seq.

CentralSan staff's responsibility is to gather information regarding the incident and notify the appropriate CentralSan manager or designee.

The Risk Management Administrator or their designee is responsible for reviewing all claims and overseeing the adjustment and administration of each claim to closure.

Whenever an overflow causes or potentially causes damage to a home or business, contact Risk Management at 925-229-7313 (o) or 925-808-0510 (c).

If Risk Management staff is unavailable, field supervisors should follow these steps to resolve the immediate needs.





Upon notice of the loss Risk Management staff will make contact with the affected customer(s) and coordinate additional or ongoing needs (lodging, further clean up, reconstruction, etc.).

CSO field staff shall forward all documents, reports, photos and notes arising out of the loss to Risk Management as soon as possible to faciliate timely claims handling and resolution.

NOTE: All forms regarding property loss or damage are included in the Incident Envelope.

5. WORKFLOW DIAGRAMS

A. INTAKE PROCEDURE







B. RESPONDING TO A SANITARY SEWER SPILL





C. LIVABILITY ASSESSMENT



6. FORMS

A. CSO DISPATCH PHONE LOG

Dispatch Phone Log

New Custom	er Call				14
Date: Resident Business Time:	Name: Business Nar Address:	ne:		Home: Work: Cell:	
Cross Street:				City:	
Description of pro	blem:	4			
Time caller notice	d spill:	A.M.	P.M.	Date:	
				s.	
Map #	Conf	irmed informa	tion above (nar	ne. address, phone #)	
D/S Structure:			U/S Structu	Ire:	
Crew Dispatched:				Time:	
Dispatcher:					

New Custor	ner Call				
Date: Resident Business	Name: Business N	Name:		Home: Work: Cell:	
Time:	Address:				
Cross Street:				City:	
Description of p	roblem:				
Time caller noti	ced spill:	A.M.	P.M.	Date:	
Map #	C	onfirmed informa	ation above (na	me, address, phone #)	
D/S Structure:			U/S Structu	ure:	
Crew Dispatche	ed:			Time:	A
Dispatcher:					

B. SPILL/STOPPAGE RESPONSE FORM

Event ID:	Spill Catego	y:	Spill D	ate:
Estimated Gallons:	E	stimated	Gallons Returned	t:
Draft Due Date:	Submitted Date:	·	Submitted by:	
Cert. Due Date	Certified Date:		Submitted by:	
SPILL LOCATION INFORMATI	<u>on</u>	·	· ·	
Street Address:			City:	
Reporting Party / Homeowne	or Name:		Contact No:	
SPILL RESPONSE INFORMAT	ION			
Upstream Map and Structure				
Downstream Map and Struct	ure:			
First Responder:	Dat	tez	Work Order #	
1. Initial Action:	Wo	rk	Crew Leader:	
Reculte.	Soc	er#		
	Plu	g:	U/S□ D	/S 🗆
2. Re-Run Action:	Wo	rk	Crew Leader:	
Results:	510			
3. CCTV:	Wo	rk		
Results:	Ord	ler#	Crew Leader:	
4.	Wo	rk	Crew Leeder:	
Results:	Fol	ler # low Up:		
Time Caller/Crew Noticed S	pill:	Date:		
Time Call was Received:		Date:		
Time Arrived at Job Site:		Date:		
Blow Down/Stop Time:		Date:		
Photos attached: 🛛 Yes	□ No			



Page 2 of 2

C. CUSTOMER INFORMATION REGARDING SEWER BACKUPS

	Customer Information Regarding Sewer Backups				
Address:	Date:				
Dear Mr./Ms.:					
We recognize that sew facts concerning how a type of event from occu cause a backup into ho Central Contra Costa S	er backup incidents can be stressful and require immediate response before all n incident occurred are known. Rest assured that we do all we can to prevent this irring. Nevertheless, occasionally tree roots or other debris in the sewer lines will mes or businesses immediately upstream of the blockage. At this time, the anitary District (Central San) is investigating the cause of the incident.				
If Central San is found to be responsible for the incident, we are committed to cleaning and restoring your property and to protect the health of those affected during the remediation process.					
We have contacted the following company to perform emergency clean up and decontamination in accordance with IICRC protocols.					
Company Name/Phor	e:				
guarantee payment of	ees or expenses incurred and reserves the right to dispute fees and expenses				
guarantee payment of deemed not usual and If you wish to submit a 7313.	ees or expenses incurred and reserves the right to dispute fees and expenses customary. claim for damages, please contact Central San Risk Management at 925-229- What You Need To Do Now:				
guarantee payment of i deemed not usual and If you wish to submit a 7313.	to clean the area yourself. Let the cleaning company handle this				
guarantee payment of i deemed not usual and If you wish to submit a 7313. Do not attempt Keep people a	tees or expenses incurred and reserves the right to dispute fees and expenses customary. claim for damages, please contact Central San Risk Management at 925-229- What You Need To Do Now: to clean the area yourself. Let the cleaning company handle this. and pets away from the affected area(s).				
guarantee payment of i deemed not usual and If you wish to submit a 7313. Do not attempt Keep people a Do not remove create an inver	The set of expenses incurred and reserves the right to dispute fees and expenses customary. claim for damages, please contact Central San Risk Management at 925-229- What You Need To Do Now: to clean the area yourself. Let the cleaning company handle this. Ind pets away from the affected area(s). items from the affected area(s). The cleaning company will do this while they itory of affected items.				
 guarantee payment of i deemed not usual and If you wish to submit a 7313. Do not attempt Keep people a Do not remove create an inver If you had rece this incident. 	The set of expenses incurred and reserves the right to dispute fees and expenses customary. claim for damages, please contact Central San Risk Management at 925-229- What You Need To Do Now: to clean the area yourself. Let the cleaning company handle this. Ind pets away from the affected area(s). items fro				
 guarantee payment of i deemed not usual and If you wish to submit a 7313. Do not attempt Keep people a Do not remove create an inver If you had rece this incident. If you intend to (Sec. 900-960) required in ord 	tees or expenses incurred and reserves the right to dispute fees and expenses customary. claim for damages, please contact Central San Risk Management at 925-229- What You Need To Do Now: to clean the area yourself. Let the cleaning company handle this. Ind pets away from the affected area(s). items from the affected area(s). The cleaning company will do this while they itory of affected items. Int plumbing work performed, contact your plumber or contractor to inform them of file a claim, please do so as soon as practical. The California Government Code requires the filing of written claim and specifies timelines and notice procedures er to have your claim considered.				
 guarantee payment of i deemed not usual and If you wish to submit a 7313. Do not attempt Keep people a Do not remove create an inver If you had rece this incident. If you intend to (Sec. 900-960) required in ord 	tees or expenses incurred and reserves the right to dispute fees and expenses customary. claim for damages, please contact Central San Risk Management at 925-229- What You Need To Do Now: to clean the area yourself. Let the cleaning company handle this. Ind pets away from the affected area(s). items from the affected area(s). items from the affected area(s). The cleaning company will do this while they tory of affected items. Int plumbing work performed, contact your plumber or contractor to inform them of file a claim, please do so as soon as practical. The California Government Code requires the filing of written claim and specifies timelines and notice procedures er to have your claim considered. eceipt of this notice:				
 guarantee payment of i deemed not usual and If you wish to submit a 7313. Do not attempt Keep people a Do not remove create an inver If you had rece this incident. If you intend to (Sec. 900-960) required in ord I/We acknowledge r Customer Signature: 	tees or expenses incurred and reserves the right to dispute fees and expenses customary. claim for damages, please contact Central San Risk Management at 925-229- What You Need To Do Now: to clean the area yourself. Let the cleaning company handle this. nd pets away from the affected area(s). items from the affected area(s). items from the affected area(s). nt plumbing work performed, contact your plumber or contractor to inform them of file a claim, please do so as soon as practical. The California Government Code requires the filing of written claim and specifies timelines and notice procedures er to have your claim considered.				
 guarantee payment of i deemed not usual and If you wish to submit a 7313. Do not attempt Keep people a Do not remove create an inver If you had rece this incident. If you intend to (Sec. 900-960) required in ord I/We acknowledge r Customer Signature: CCCSD Signature: 	Eves or expenses incurred and reserves the right to dispute fees and expenses customary. claim for damages, please contact Central San Risk Management at 925-229- What You Need To Do Now: to clean the area yourself. Let the cleaning company handle this. nd pets away from the affected area(s). items from the affected area(s). The cleaning company will do this while they tory of affected items. nt plumbing work performed, contact your plumber or contractor to inform them of file a claim, please do so as soon as practical. The California Government Code requires the filing of written claim and specifies timelines and notice procedures er to have your claim considered. Date: Date:				
 guarantee payment of i deemed not usual and If you wish to submit a 7313. Do not attempt Keep people a Do not remove create an inver If you had rece this incident. If you intend to (Sec. 900-960) required in ord I/We acknowledge r Customer Signature: CCCSD Signature:	eees or expenses incurred and reserves the right to dispute fees and expenses customary. claim for damages, please contact Central San Risk Management at 925-229- What You Need To Do Now: to clean the area yourself. Let the cleaning company handle this. nd pets away from the affected area(s). items from the affected area(s). The cleaning company will do this while they tory of affected items. nt plumbing work performed, contact your plumber or contractor to inform them of file a claim, please do so as soon as practical. The California Government Code requires the filing of written claim and specifies timelines and notice procedures er to have your claim considered. Date: Date: Date: Date: Date:				

D. DECLINATION OF SEWAGE CLEANING SERVICES



Declination of Sewage Cleaning Services

Customer Name:						
Address:						
Phone:						
Incident Date:	Incident Time: Est. # Gallons:			. # Gallons:		
Photos Taken: Yes No	Taken: Yes No Suspected Cause of Overflow:					
Contents Wastewater Grey Water Toilet Bowl Water Other (Describe) Flooring Affected: Tile Line Other (Describe) Personal Property Affected: And C I/We acknowledge that the Central cleaning and decontamination serving we declined the offer. We further necessary remediation activities w accept responsibility for work perfor not accept responsibility for any ch the Central San Risk Management	inole Area al Co rvice und will b formation thang	Overflowed from Overflowed from Toilet Shower/Tub Sink Washer Backflow Prevention Devic Other (Describe) Um Carpet Hard Wood Rugs Towels Bathmats Omer - Please Read and S Intra Costa Sanitary District (Cent s to remediate the sewage backu erstand and acknowledge that be e conducted without Central San ed by persons other than those ef es related to this incident that are 925-229-7313 if you have any qu	ce I Sign tral S up an ecaus assi assi assi e not iestic	Areas Affected Bathroom(s) Hallway Kitchen Bedroom(s) Garage Crawlspace Exterior Only Laminate Other (Describe below) San) has offered to provide professional ad/or overflow described above and that se we have declined this offer, any stance and that Central San will not yed by Central San. Central San will also usual and customary. Please contact ons.		
The information above was explain	ined	to the Customer by:				
Employee Signature:			Ti	tle:		
Customer Signature:			D	ate:		

Distribution: Original to Risk Management

Copy to Customer

E. CLAIM FORM

	CLAIM FORM
	(per Government Code §§ 910, 910.2, 910.4)
CLAIMANT'S NAME	
CLAIMANT'S ADDR	ESS:
City:	State: Zip Code:
PHONE:	Home Work Cell
DATE OF DISCOVE DIFFERENT THAN (occurrence, condition PLACE OF OCCURR	RY OF OCCURRENCE, CONDITION OR TRANSACTION, IF DATE SET FORTH ABOVE: (Please Indicate earliest date of discovery of n or transaction, which gives rise to claim. Indicate how you discovered RENCE, ACCIDENT OR TRANSACTION:
RISE TO THE CLAIN	M (attach additional pages if more space is needed):

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	Martinez, CA 94003	Martinez, CA 94003	Send completed claim form and Central Con Secr 50	d docum itra Costa etary of t 019 Imho	nentation supporting you a Sanitary District he District ff Place	r claim to:

F. AFFECTED PERSONAL PROPERTY INVENTORY LOG



Affected Personal Property Inventory Log

Instructions: Complete this form as completely as possible and send to the Central Contra Costa Sanitary District, Attn: Risk Management, 5019 Imhoff Place, Martinez, CA 94553. Please keep a copy for your records.

If you have any questions, please call 925-229-7320.

Quantity	Description	Where Pu	A	Cost	Replacemer	
Quantity	Description	Store	City	Age	COSI	Value
	· · · · · · · · · · · · · · · · · · ·					
Name:		Date	of Overflow:			
Affected Add	ress:					
Signatura				Date		
Signature:				_ Date:		

G. BUILDING HISTORY FORM

Building H	istory Form				
Complete this form as	thoroughly as possible.				
Your Name:					
Today's Date:	Date of Overflow:				
Affected Property Address:					
Primary Resident's Name:					
Any other residents at this address? Approximate Ages:	□ No				
Is resident the owner? □ Yes □ No If No, list owner's name, address and ph	one number:				
Were the residents relocated to a hotel?	Yes 🗆 No				
Name of cleaning company called: Project Manager Name and Phone:					
Year Home Built:	# of Bathrooms:				
List Rooms Affected:					
How long was sewage sitting?					
Is there an OPD? □ Yes □ No	Was it functional?				
Any plumbing permits within last 3 years? □ Yes □ No If Yes, describe:					
Any active plumbing projects observed?	Yes 🗆 No				
Last cleaning of line segment:	Last repair of line segment:				
Any prior spills at this location?	No				

H. HOTEL AUTHORIZATION FORM



I. CHAIN OF CUSTODY FORM



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ERC-LAB-CSO-SAM-COC-FOR Revision: 5 Effective: 05/15/2025 Page 2 of 2

Remove seal and lid from Sacrificial Subsampling Bottle and fill the bottle with sample. Remove the lid and seal from Bottle 1 and do not set the lid down. Pour sample from the Sacrificial Subsampling Bottle into Bottle 1 and avoid touching anything to the rim of the bottle. Fill to the 250 mL line, but do not overfill!

Refill the Sacrificial Subsampling Bottle with sample. Remove the lid and seal from Bottle 2 and do not set the lid down. Pour sample from the Sacrificial Subsampling Bottle into Bottle 2 and avoid touching anything to the rim of the bottle. Fill to the 250 mL line, but do not overfill!

> Using either the Sacrificial Subsampling Bottle, or another sampling device, collect the sample. Remove lid and seal from Botle 3a and fill to the 250 mL line with sample, but do not overfill! Replace the lid and shake to dissolve the sodium thiosulfate to dechlorinate sample. Remove the lid from Bottle 3b, but take caution as the bottle contains strong acid. Pour sample from Bottle 3a into Bottle 3b and replace the lid on Bottle 3b.

J. SEWER SPILL REFERENCE GUIDE

SEWER SPILL REFERENCE GUIDE Your Responsibility as a Private Property Owner

What is a Sewage Spill?

Sewage spills occur when the wastewater being transported via underground pipes spills through a manhole, cleanout, or broken pipe. Sewage spills can cause health hazards, cause damage to homes and businesses and threaten the environment, local waterways and beaches.

Common Causes of Sewage Spills:

- <u>Grease</u> builds up and can eventually block the sewer pipes. Grease gets into the sewer from food establishments, household drains, and from poorly maintained commercial grease traps and interceptors. Grease is a common cause of pipe blockages.
- <u>Structure problems</u> including tree roots in the sewer lines, broken or cracked pipes, missing or broken clean-out caps, or undersized sewers.
- <u>Infiltration and Inflow</u> (I&I) impacts pipe capacity and is caused when groundwater or rainwater enters the sewer system through pipe defects and illegal connections.

Who Is Responsible for Sewer Repairs and Maintenance?

Each home or commercial building has a separate connection to the public sanitary sewer main. That connection is called a 'lateral'. It is the property owner's responsibility to maintain and repair their own sewer lateral from the house to the point of connection with the public sewer main. The Uniform Plumbing Code and the Central San Sewer Use Ordinance requires property owners to install and maintain a sanitary sewer spill protection device on their private sanitary sewer service lateral.

You Are Responsible for a Sewage Spill Caused by a Blockage or Break in Your Sewer Lines

Time is of the essence in dealing with sewage spills. You are required to do the following immediately:

- <u>Control and minimize the spill</u>. Keep spills contained on private property and out of gutters, storm drains, and public waterways by shutting off or not using the water.
- <u>Use sandbags, dirt and/or plastic sheeting</u> to prevent sewage from entering the storm drain system.
- It is recommended that you call a plumbing professional to clear blockages and make necessary repairs.
- <u>Always notify Central San</u> of sewage spills. If the spill exceeds 1,000 gallons, notify the California Office of Emergency Services (phone number on reverse).

You Could Be Liable for Not Protecting the Environment

Allowing sewage from your home, business or property to discharge to a gutter or storm drain may subject you to penalties and other out-of pocket costs to reimburse public agencies for clean-up and enforcement efforts.

<u>California Health and Safety Code</u> Sections 5410-5416 says that no person shall discharge raw or treated sewage or other waste in a manner that results in contamination, pollution, or nuisance. Any person who causes or permits a sewage discharge to any state waters 1) must immediately notify the local health agency of the discharge and 2) shall reimburse the local health agency for services that protect the public's health and safety. Persons who fail to provide this notice are guilty of a misdemeanor and shall be punished by a fine and/or imprisonment for less than one year.

<u>California Water Code</u>, Article 4, Chapter 4, Sections 13268-13271 and the <u>California Code of Regulations</u>, Title 23, Division 3, Chapter 9.2, Article 2, Sections 2250-2260 require that any person who causes or permits sewage in excess of 1,000 gallons to be discharged into state waters shall immediately notify the Office of Emergency Services. Persons who fail to provide this notice are guilty of a misdemeanor and shall be punished by a fine and/or imprisonment for less than one year.

What to Look For:

Sewage spills can include water gushing from a manhole to less noticeable leaks that may take time to be noticed. Look for the following:

- Drain backups inside the building
- Wet ground and water leaking around manhole covers onto your street
- Leaking water from clean-outs or outside drains
- Unusual odorous wet areas, sidewalks, external walls, grounds or landscaping around a building

Caution!

When trying to locate a sewer problem, <u>never open manholes</u> or other public sewer structures. Because of potential hazards, only Central San personnel are allowed to open and inspect these structures.

Keep people and pets away from an area affected by a sewage spill. Untreated sewage has high levels of disease-causing viruses and bacteria. Always wear gloves whenever working around raw sewage and remember to wash your hands thoroughly when done.

How a Sewer System Works

A property owner's sewer pipe is called a lateral and is connected to larger local main and regional trunk sewer lines. Service laterals run from the connection at the building to the connection with the public sewer, sometimes including areas under the street. These laterals are the property owner's responsibility to maintain and repair.



IF YOU HAVE A SEWAGE SPILL FROM YOUR PRIVATE SEWER LINE, CONTACT:

Central San	925-933-0990 or 925-933-0955
Contra Costa County Department of Environmental Health	
	or 925-646-1112 in case of emergency
Regional Water Quality Control Board	
California Office of Emergency Services	

K. SPILL PROTECTION DEVICE HANDOUT



L. MAINTAINING THE FLOW BROCHURE



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Introduction

T he purpose of this brochure is to provide you with information about Central Contra Costa Sanitary District (CCCSD) and, more specifically, our Collection System Operations (CSO) Department. You may have seen our CSO work crews in your neighborhood and wondered what they were doing and why. This brochure is intended to provide answers to those questions.



- Sewage collection and wastewater treatment for 294,170 people and HHW collection service
 - Wastewater treatment for 126, 300 residents in Concord and Clayton by contract and HHW collection service
- HHW collection service only
- Central San's Headquarters Office Building, treatment plant, and HHW Collection Facility are located in Martinez
- The District's Collection System Operations Department (sewer maintenance) is based in Walnut Creek

Who We Are

CCCSD is a special district with a five-member elected Board of Directors. Our primary responsibility is to protect the health of the public and the environment through safe and effective sewage collection, treatment and disposal. With about 250 employees, CCCSD also operates a household hazardous waste collection facility, recycles high-quality water, and promotes pollution prevention through various educational, informational and inspection programs. Located at the intersection of State Highway 4 and Interstate 680, CCCSD's modern wastewater treatment facility treats an average of 45 million gallons of wastewater per day for more than 400,000 residents and businesses in central Contra Costa County.









CCSD's collection system includes more than 1,400 miles of underground pipeline rangfing in size from 6 to 102 inches in diameter. To ensure a constant, efficient flow through those lines, our Collection System Operations (CSO) crews conduct critical cleaning, television inspection, and repair operations on an ongoing basis. They also handle occasional sewer replacement projects. With all of this activity, these crews are bound to cross your path at some time or another. And since our work could impact your life with noise or traffic delays, it's important to us that you know why we're there.



Cleaning and Maintenance Services

"Routine" maintenance is performed on all collection system pipelines once every 10 years. "Scheduled" maintenance is performed more frequently, sometimes even monthly, on lines especially susceptible to clogging. Our crews clean/maintain an average of 400 miles of pipeline each year. So 90% percent of the time, the people you see in CCCSD orange shirts and hard hats are CSO crews working to clean, repair and inspect sewer lines. The majority of plugged sewers are caused by roots infiltrating the sewer lines. The most effective way to deal with infiltrating roots is with the power-rodding truck, which can reach 1,000 feet or more of continuous pipeline. An auger or scraper is attached to the truck's 3/8 inch rod and pushed through the line. As the auger is slowly pulled back, it scrapes along the sides of the pipes, taking with it any roots it encounters. The power rodder, however, cannot be used on every sewer line. Rodding required in easements or other out-of-the-way places must be done by hand with a portable rodder. This piece of equipment is removed from the truck and carried wherever necessary. Its range is 300 feet of pipeline.

In addition, CSO cleaning crews treat about 60,000 feet of sewer pipeline each year with a chemical foam that kills roots on contact. Another major cause of plugged sewers is grease. Sewer lines located downstream from restaurant areas are especially prone to heavy grease build-up and blockage. To clean out the layers of hardened grease from the sewer lines, the crew uses a technique called hydroflushing. The hydroflush truck uses a water hose with a special nozzle that creates a high-pressure spray (2,000 psi) to scour the inside of a pipe. The high-pressure water knocks material loose from the pipe walls, and also pushes out any other loose material such as sand, grit and mud. A circular hydro-root saw can be attached to the nozzle of the hydroflush and used to cut through the hardest grease and, when necessary, through roots. Up to 850 feet of continuous pipeline can be cleaned this way. Another valuable piece of equipment is the Vactor Jet Rodder. It also uses high-pressure water to clean out sewer lines, but has the additional feature of vacuuming up all the loosened debris at the same time the line is being cleaned. This virtually eliminates the need for crews to make manhole entries to remove debris after a hydroflush cleaning.

On Call/Emergency S.

Pipeline Repair & Replacement Services

On other, more rare occasions, you'll see our crews working to repair or replace sewer lines. CCCSD has been around since 1946, and some of the pipes we acquired over the years have been in place long before we came along. Dilapidated or undersized sewers that no longer function properly must be repaired or replaced.



TV inspections are also performed on newly constructed lines

Often, the first step in repairing or replacing a sewer line involves Close Circuit Television/Locating. When a problem area in a main line is suspected, a small video camera on wheels/skids, with a locating device attached to it, is pulled through the line. Viewing the images on a remote television monitor, CSO crew members can pinpoint problem areas within the pipes and determine the best corrective action to take. TV inspections are also performed on newly constructed lines to verify the qualiy of construction.

When repairs or replacements are necessary, we use trenchless or "no-dig" technology whenever possible. "No-dig" technology drastically reduces the amount of surface disruption that occurs with pipeline replacement. It saves money and reduces construction impacts on

residents and businesses. This technique is especially useful in high-density areas where backyard easements, landscaping and structural barriers make open-cut construction extremely expensive. A state-of-the-art piece of equipment that has revolutionized the method for replacing old sewer pipe is the pipe insertion machine. It can replace pipe in half the time of conventional methods which involve digging up the ground, removing the old pipe, installing a new one, and covering it up. The new technique is called pipe bursting. The pipe insertion machine is pneumatically driven through the soil. It disintegrates old pipe, enlarges the ensuing hole, and pulls in new pipe - all in the same operation. The only excavation required is two pits every 400-500 feet for the launch and retrieval of the equipment, and a small pit at each side-sewer connection.



"No dig" technology drastically reduces the amount of surface disruption



Using this method is much more preferable to the long and deep trenches dug with the old method.

Another "no dig" technique is called horizontal boring. A drill rig laid on its side bores through the soil horizontally, creating a hole through which a pipe is pulled. This technique is particularly useful in hilly areas. Cured in-place pipe (CIPP), or inversion lining is another trenchless technology. This technique leaves the old pipeline in place while a polyester felt liner, impregnated with a thermosetting resin, is inserted and filled with hot water for curing. Once the curing process is completed, the sewer is as good as new.

M. DOOR HANGER



7. UPDATE OF PLAN

A. Plan Review and Updates

The SERP will be reviewed in January of each calendar year to ensure that it is up to date with the WDR and emergency response activities performed by CentralSan. It is a requirement of Section 5.12, of the WDR, that the Enrollee shall certify, in its Annual Report, that its SERP is up to date. The Annual Report is due by April 1st of each year after the Effective date of this General Order for each calendar year, per section 3.9 of the WDR.

The Field Operations Superintendent and Senior Engineer will ensure that material or significant changes to the Plan are incorporated into the document, are recorded on the Review and Revision Log (Page 1), and ensure that the contents of this Plan are consistent with Element 6 of Central San's Sewer System Management Plan.

B. Training

The Collection System Operations Division Manager, Collection System Operations Senior Engineer and/or Field Operations Superintendent will provide training on the SERP to field staff annually and will advise field crews of any changes made to the Plan between such trainings in a timely manner.

CentralSan staff training will include:

- WDR
- SERP and Pumping Stations Emergency Response Plan
- SSMP
- Overflow estimation using the CentralSan overflow simulator
- Start Time determination
- Bypass pump setup

In addition, training will be provided to contractors working on collection system projects. This training will be provided at the Pre-Construction meeting. Contractors will be responsible for containing spills originating from their construction activities. CentralSan staff will provide all repairs, clean-up, sampling, and reporting for the spill.

Contractor Training will include:

- Terminating the spill
- Containing the spill
- 24-hour emergency dispatch and contact information
- Mitigating damage

8. RESOURCES

A. Emergency Vendor Contact Information

SERVICE/SUPPLIES	VENDOR NAME	PHONE NUMBER
Hazardous Materials	Phillips Service Corp. (PSC)	800-800-7472 (Benicia)
Response	NRC Environmental Services	877-880-4672
Spills to Creeks or	Phillips Service Corp. (PSC)	707-748-3058
Other Waterways	NSC Environmental Services	800-337-7455
Sewer Backup Cleanup	Restoration Management	800-400-5058
	ServiceMaster Restore	800-480-8439
Generators / Lane Closure / Equipment Rental	Cresco Equipment Rental	925 827-1742 (Pleasant Hill) 925 284-4595 (Lafayette) 925 837-4475 (Danville) 925 228-9811 (Martinez)
	United Rental	510-562-3000 (Oakland) 925-370-1000 (Martinez)
	Construction Zone	925-969-7508
	Road Safe Traffic Systems	925-686-1089
Other	Trench Shoring Company	510-900-0595 (Newark)
	Rain for Rent	925-679-2803(Oakley)
	Herc Rentals	925-680-0316(Pacheco)

B. Other Agency Contact Information

CentralSan coordinates with our local cities, counties, and municipalities regularly. The coordination focuses on many different items, such as:

- Preventative maintenance activities within the Public Right of Way.
- Encroachment permits for repairs
- Manhole adjustments to existing grade
- City Paving project coordination
- Facility inspections
- Emergency Response

Over the last 15 years, CentralSan has worked with our cities, county, and agencies to receive their electronic system maps. We have received the system maps for all storm drains and water lines within our service area. The electronic files have been added as a layer to our ESRI electronic mapping system and can be accessed by field crews during emergency response.

In addition, the San Pablo Reservoir is located in Suisun Basin as defined by the SWRCB Region 2 Basin Plan. San Pablo Creek and its tributaries are upstream of the reservoir. CentralSan has a verbal agreement with the East Bay Municipal Utility District (EBMUD) that if there is a spill greater than or equal to 1,000 gallons into San Pablo Creek or its tributaries, we will notify them immediately after our call to Cal-OES. This notification is outlined in our "Responding to a Spill" procedure.

AGENCY NAME	PHONE NUMBER
City of Concord	925-671-3448
City of San Ramon	925-973-2500
City of Danville	925-314-3450
City of Walnut Creek	925-256-3586
City of Pleasant Hill	925-671-4646
City of Martinez	925-372-3580
City of Lafayette	925-934-3908
City of Moraga	925-888-7050
City of Orinda	925-253-4231
Diablo San Ramon Sanitary District	925-828-0515
East Bay MUD	866-403-2683
Contra Costa Water District	925-688-8000
Mt. View Sanitary District	925-228-5635
Contra Costa County	925-313-2000
Zone 7	925-454-5000

C. Public Posting Notice



9. DEFINITIONS

Definitions as used in this Plan and as outlined in Order Number WQ 2022-0103-DWQ Statewide Waste Discharge Requirements (WDR):

Annual Report

An Annual Report (previously termed as Collection System Questionnaire in Order 2006-0003-DWQ) is a mandatory report in which the Enrollee provides a calendar-year update of its efforts to prevent spills.

Basin Plan

A Basin Plan is a water quality control plan specific to a Regional Water Quality Control Board (Regional Water Board), that serves as regulations to: (1) define and designate beneficial uses of surface and groundwaters, (2) establish water quality objectives for protection of beneficial uses, and (3) provide implementation measures.

Beneficial Uses

The term "Beneficial Uses" is a Water Code term, defined as the uses of the waters of the State that may be protected against water quality degradation. Examples of beneficial uses include but are not limited to, municipal, domestic, agricultural, and industrial supply; power generation; recreation; aesthetic enjoyment; navigation; and preservation and enhancement of fish, wildlife, and other aquatic resources or preserves.

California Integrated Water Quality System (CIWQS)

CIWQS is the statewide database that provides for mandatory electronic reporting as required in State and Regional Water Board-issued waste discharge requirements.

Data Submitter

A Data Submitter is an individual designated and authorized by the Enrollee's Legally Responsible Official to enter spill data into the online CIWQS Sanitary Sewer System Database. A Data Submitter does not have the authority of a Legally Responsible Official to certify reporting entered into the online CIWQS Sanitary Sewer System Database.

Disadvantaged Community

A disadvantaged community is a community with a median household income of less than eighty percent (80%) of the statewide annual median household income.

For the purpose of this General Order, there is no differentiation between a small and large disadvantaged community.

Drainage Conveyance System

A drainage conveyance system is a municipal separate storm sewer system or other municipal/non-municipal drainage canal, channel, pipeline, or conveyance system constructed to provide drainage through transport of stormwater and non-stormwater flows.

Environmentally Sensitive Area

An environmentally sensitive area is a designated agricultural and/or wildlife area identified to need special natural landscape protection due to its wildlife or historical value.

Exfiltration

Exfiltration is the underground exiting of sewage from a sanitary sewer system through cracks and/or corrosion in pipes, misaligned joints, or broken/failed infrastructure.

Flood Control Channel

A flood control channel is a channel used to convey stormwater and non-stormwater flows through and from areas for flood management purposes.

Governing Entity

A governing entity includes but is not limited to the following:

• A publicly elected governing board, council, or commission of a municipal agency;

• A Department or Division director of a federal or state agency that is not governed by a board;

- A governing board or commission of an organization or aspillciation; and
- A private system owner/manager that is not governed by a board.

Hydrologically Connected

Two waterbodies are hydrologically connected when one waterbody flows, or has the potential to flow, into the other waterbody. For the purpose of this General Order, groundwater is hydrologically connected to a surface water when the groundwater feeds into the surface water (The surface water in this example is termed a gaining stream as it gains flow from surrounding groundwater.)

Lateral (including Lower and Lower and Upper Lateral)

A lateral is an underground segment of pipe that transports sewage from a building or property (residential, commercial, or industrial) to a sanitary sewer system main in a street or easement. A lower lateral is the portion of the lateral located between: (1) the sanitary sewer system main, and (2) either the property line or the boundary of an established easement. An upper lateral is the portion of the lateral from the building or property, to a clean out closest to the property line or boundary of an established easement.

Legally Responsible Official

A Legally Responsible Official is an official representative, designated by the Enrollee, with authority to sign and certify submitted information and documents required by this General Order.

Nuisance

For the purpose of this General Order, a nuisance, as defined in Water Code section 13050(m), is anything that meets all of the following requirements:

• Is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property;

• Affects at the same time an entire community or neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal; and

• Occurs during, or as a result of, the treatment or disposal of wastes.

Private Sewer Lateral

A private sewer lateral is the privately-owned lateral that transports sewage from private property(ies) into a sanitary sewer system.

Private Sanitary Sewer System

A private sanitary sewer system is a sanitary sewer system of any size that is owned and/or operated by a private individual, company, corporation, or organization. A private sanitary sewer system may or may not connect into a publicly owned sanitary sewer system.

Receiving Water

A receiving water is waters of the State that receive a discharge of waste.

Resilience

Resilience is the ability to plan, prepare for, mitigate, and adapt to changing conditions from hazards to enable rapid recovery of physical, social, economic, and ecological infrastructure. Improving resilience before or following a hazard event should engage physical infrastructure and social systems with adaptive capacity to ensure rapid return to functionality, accounting for interdependencies within and across all sectors.

Satellite Sewer System

A satellite sewer system is a portion of a sanitary sewer system owned or operated by a different owner than the owner of the downstream wastewater treatment facility ultimately treating the sewage.

Sewer System Management Plan

A sewer system management plan is a living document an Enrollee develops and implements to effectively manage its sanitary sewer system(s) in accordance with this General Order.

Sewage

Sewage is untreated or partially treated domestic, municipal, commercial and/or industrial waste (including sewage sludge) conveyed in a sanitary sewer system.

Spill

A spill is a discharge of sewage from any portion of a sanitary sewer system due to a sanitary sewer system spill, operational failure, and/or infrastructure failure. Exfiltration of sewage is not considered to be a spill under this General Order if the exfiltrated sewage remains in the subsurface and does not reach a surface water of the State.

<u>Category 1 Spill</u> – A Category 1 spill is a spill of any volume of sewage from or caused by a sanitary sewer system regulated under this General Order that results in a discharge to:

- $\circ~$ A surface water, including a surface water body that contains no flow or volume of water; or
- A drainage conveyance system that discharges to surface waters when the sewage is not fully captured and returned to the sanitary sewer system or disposed of properly.
Any spill volume not recovered from a drainage conveyance system is considered a discharge to surface water, unless the drainage conveyance system discharges to a dedicated storm water infiltration basin or facility.

A spill from an Enrollee-owned and/or operated lateral that discharges to a surface water is a Category 1 spill; the enrollee shall report all Category 1 spills per section 3.1 of Attachment E1 (Notification, Monitoring, Reporting and Recordkeeping Requirements) of this General Order.

<u>Category 2 Spill</u> – A Category 2 spill is a spill of 1,000 gallons or greater, from or caused by a sanitary sewer system regulated under this General Order that does not discharge to a surface water.

A spill of 1,000 gallons or greater that spills out of a lateral and is caused by a failure or blockage in the sanitary sewer system, is a Category 2 spill.

<u>Category 3 Spill</u> – A Category 3 spill is a spill of equal to or greater than 50 gallons and less than 1,000 gallons, from or caused by a sanitary sewer system regulated under this General Order that does not discharge to a surface water.

A spill of equal to or greater than 50 gallons and less than 1,000 gallons, that spills out of a lateral and is caused by a failure or blockage in the sanitary sewer system is a Category 3 spill.

<u>Category 4 Spill</u> – A Category 4 spill is a spill of less than 50 gallons, from or caused by a sanitary sewer system regulated under this General Order that does not discharge to a surface water.

A spill of less than 50 gallons that spills out of a lateral and is caused by a failure or a blockage in the sanitary sewer system is a Category 4 spill.

Training

Training is in-house or external education and guidance needed that provides the knowledge, skills, and abilities to comply with this General Order.

Wash Down Water

Wash down water is water used to clean a spill area.

Waste

Waste, as defined in Water Code section 13050(d), includes sewage and any and all other waste substances, liquid, solid, gaseous, or radioactive, aspillciated with human habitation, or of human or animal origin, or from any producing, manufacturing, or processing operation, including waste placed within containers of whatever nature prior to, and for purposes of, disposal.

Waters of the State

Waters of the State are surface water or groundwater within boundaries of the state as defined in Water Code section 13050(e), in which the State and Regional Water Boards have authority to protect beneficial uses. Waters of the State include, but are not limited to, groundwater aquifers, surface waters, saline waters, natural washes and pools, wetlands, sloughs, and estuaries, regardless if flow or water exists during dry conditions. Waters of the State include waters of the United States.

Waters of the United States

Waters of the United States are surface waters or waterbodies that are subject to federal jurisdiction in accordance with the Clean Water Act.

Water Quality Objective

A water quality objective is the limit or maximum amount of pollutant, waste constituent or characteristic, or parameter level established in statewide water quality control plans and Regional Water Boards' Basin Plans, for the reasonable protection of beneficial uses of surface waters and groundwater and the prevention of nuisance.

Notifications, Monitoring and Reporting for Category 1 and 2 Spills as outlined in Order Number WQ 2022-0103-DWQ Statewide Waste Discharge Requirements (WDR), Attachment E-2

10. APPENDICES

Appendix A – Water Quality Monitoring Program

WDR REQUISITES

This Water Quality Monitoring Program provides the District's response activities and standard operating procedures to be utilized in the Spill Emergency Response Plan (SERP), in the event a sanitary sewer spill (SSS) is 50,000 gallons or greater discharged to surface waters. This program is reviewed periodically and may be updated as necessary.

State Water Resources Control Board Order No. WQ 2022-0103-DWQ, Amending Monitoring and Reporting Program for Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (WDR), effective June 5, 2023, requires the following:

WDR Attachment E-1 – Notification, Monitoring, Reporting and Recordkeeping Requirements

To comply with subsection 2.32 – Receiving Water – Water Quality Sampling and Analysis, 2.3.3 - Water Quality Analysis Notifications, and 2.34 – Receiving Water Sampling Locations, Central San has developed and implemented an SSS Water Quality Monitoring Program to assess impacts from SSSs to surface waters in which 50,000 gallons or greater are spilled to surface waters. The SSS Water Quality Monitoring Program, shall, at a minimum:

- 1. Contain protocols for water quality monitoring.
- 2. Account for spill travel time in the surface water and scenarios where monitoring may not be possible (e.g. safety, access restrictions, etc.).
- 3. Require water quality analyses for ammonia and bacterial indicators to be performed by an accredited or certified laboratory.
- 4. Require monitoring instruments and devices used to implement the SSS Water Quality Monitoring Program to be properly maintained and calibrated, including any records to document maintenance and calibration, as necessary, to ensure their continued accuracy.
- 5. Within 18 hours of the enrollee becoming aware of the SSS, require water quality sampling for, at a minimum, the following constituents:
 - i. Ammonia
 - ii. Appropriate Bacterial indicator(s) per the applicable Basin Plan water quality objective or Regional Board direction which may include total and fecal coliform, enterococcus, and e-coli.

Additionally, for spills greater than 50,000 gallons, an SSS Technical Report is required and must be submitted within 45 calendar days from the SSS end date. The SSS Technical Report requirements are described in Attachment E-1 – Notification,

Monitoring, Reporting and Recordkeeping Requirements, Section 3.1.3, Page E1-10 of the WDR.

CENTRAL SAN COMPLIANCE

1.0 CONTAIN PROTOCOLS FOR WATER QUALITY MONITORING

Central San collects water quality samples for Category 1 SSS's with a volume of **50,000 gallons or greater**. The Field Superintendent or a Field Supervisor will collect, transport, and submit water quality samples for analysis to Central San's Laboratory at our Treatment Plant in Martinez, California. Samples are taken at or near where the SSS reaches the surface water (entry point), approximately 100 feet upstream, and downstream of the entry point. The samples are collected as soon as the blockage has been cleared or if additional staff is available the sampling activities will be completed in concurrence with clearing the blockage. The samples are analyzed for ammonia, total coliform, fecal coliform, enterococcus and e-coli. Additional follow up samples are recommended to confirm the extent that the impact reverts to baseline levels. Follow up samples can be used to determine if posting of warning signs should be discontinued, if signs were posted. Collaboration with the Office of Emergency Services, Fish and Wildlife and the County Health Department shall continue until closures have been removed.

In addition, Central San has contracted with Environmental Science Associate to provide a certified Biologist to review and provide recommendations for **ALL** Category 1 SSS's. Central San staff performs the creek cleanup and the biologist is required, within 48-hours, to inspect the site for any additional cleanup activities. The Biologist then submits a report to Central San outlining the findings. Biologist reports are attached to the SSS backup documentation and kept at the Collection System Operations location in Walnut Creek.



2.0 ACCOUNT FOR SPILL TRAVEL TIME IN THE SURFACE WATER AND SCENARIOS WHERE MONITORING MAY NOT BE POSSIBLE

The following methods are recommended to estimate spill travel time and direction:

<u>Method 1:</u> Use a **velocity probe** (such as a Global Water FP111-S Flow Probe). To determine the rate of flow in the surface water or

<u>Method 2:</u> Visual ft/sec measurement. This may be done by observing or dropping floatable debris in the surface water and timing how long it takes to travel over a measured distance (e.g., 100 feet). Include sections in the surface water where there are bends, bottlenecks, or other characteristics that may slow down the flow. If the first measurement is uncertain, this estimate may be performed three to five times, and the values averaged to determine an estimated travel time.

<u>Method 3:</u> **Hach Ammonium Field Test.** The Field Superintendent, Supervisors and maintenance staff are equipped with Ammonium Filed Test kits. This allows staff to determine the extent of the spill in the surface water which assists them in determining where to setup pumps to clean the waterway.

Either of these methods will provide a means to estimate the distance traveled and identify where the SSS may be headed within the waterway.

The following are scenarios where monitoring may not be possible.

Be aware of safety issues and do not subject personnel to unsafe conditions in order to comply with this Water Quality Monitoring Plan. Sampling will not be conducted if there are any concerns regarding field crew safety. These concerns may include:

- Heavy rain events that compromise access points through flooding and swift currents
- Rain events that include lightning
- Steep creekbanks that limit access
- Large flows in creek that are not conducive to sampling

3.0 REQUIRE WATER QUALITY ANALYSIS FOR AMMONIA AND BACTERIAL INDICATORS TO BE PERFORMED BY AN ACCREDITED OR CERTIFIED LABORATORY

Central San is required to meet dozens of stringent water quality regulations. We operate a laboratory at our wastewater treatment plant, 5019 Imhoff Place in Martinez, CA. Central San's laboratory is certified by the California State Environmental Laboratory Accreditation Program. Approximately 35,000 tests are conducted annually to identify various wastewater constituents, including ammonia, bacteria, metals, toxic organic compounds, and pathogens.

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM	Martinez, CA 94553
	Phone: 9253357751
CERTIFICATE OF ENVIRONMENTAL ACCREDITATION	Field of Testing: 107 - Microbiology of Wastewater
SERVINGATE OF ENVIRONMENTAL ACCREDITATION	107.020 002 Total Coliform (Envaneration) SM 9221 B-2006
Is hereby granted to	107.030 002 Total Colloms with Chlorine Present SM 9221 BJC-2006
	107.040 002 Fecal Californ (Enumention) SM 9221 C,E 2006
Central Contra Costa Sanitary District, Dr. Mario M. Menesini	107.050 002 Fecal Coliform with Oblonic Present SM 9221 C,E 2006
Environmental Laboratory	107.242 001 Enterconci Enterclert
	Field of Testing: 108 - Inorganic Chemistry of Wastewater
	108.110 001 Turbidty EPA 180.1
	108.381 001 Oil and Greate EPA 1664.8
	108.410 001 Alkalinity SM 2320 B-1997
5015 Imhoff Place	108.421 001 Hardrets SM 2340 C 1997
Notices Of Others	108.430 001 Spedil: Conductance SM 2510 B-1997
Marunez, CA 94655	108.440 001 Residue, Total SM 2540 B-1997
	108.441 001 Residue, Filtenable TDS SM 2540 C 1997
Scope of the certificate is limited to the	108.442 001 Residue, Nov-Marable TSS SM 2540 D-1997
"Fields of Testing"	108.443 001 Retrikue, Setileshile SM 2540 F-1997
which accompany this Certificate.	108,461 001 Oklorine, Tobal Residual SM 4500-CI C 2000
	108.470 001 Opende, Total SM 4508-CNB or C1999
Continued accredited status depends on successful completion of on-site inspection,	108.472 001 Gyanae, total SM 400-CN-E1999
proliciency testing studies, and payment or applicable tees.	105.430 001 Hystopin (n.j.H) SM 42024+8-2200
This Certificate is granted in accordance with provisions of	106:500 002 Ammonia (al N) 304 4000-NES (C1997
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ective Date: 1/1/2019	108.529 003 Nitote (sn N) SM 4500-NOS F2000
	108.532 001 Ovgen, Disolved SM 4500-0 C 2001
C. A.	108.540 001 Phosphate,Otho (st P) SM 4500-P.E.1999
11:4 50	108.541 001 Phosphorus,Total SM 4500-P E-1999
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108.584	001	Sulfde (as S)	SM 4500-S D-2000	
108.592	002	Carbonaceous BOD	SM 5213 B -2001	
108.660	001	Chemical Oxygen Demand	Hach 8000	
108.999	002	Nitrate	SM/418D	
000.999	003	Cyanide, Manual Distillation	SM 4500-CN I-1899	
000.801	004	Oxygen, Dissolved	ASTM D888-09C	
08.999	005	Cyanide, Total	Kelada-01 Revision 1.2	
Field of T	esting	: 109 - Toxic Chemical Elements of	f Wastewater	
109.020	001	Aluminum	EPA 200.8	
109.020	002	Artimony	EPA 200.8	
109.020	003	Arsenic	EPA 200.8	
109.020	004	Baium	EPA 200.8	
109.020	005	Beylium	EPA 200.8	
109.020	006	Cadmium	EPA 200.8	
109.020	007	Chromium	EPA 200.8	
109.020	800	Cobalt	EPA 200.6	
109.020	009	Copper	EPA 200.8	
109.020	010	Lead	EPA 200.8	
109.020	011	Manganese	EPA 200.8	
109.020	012	Molyb denum	EPA 200.6	
109.020	013	Nickel	EPA 200.8	
109.020	014	Selenium	EPA 200.8	
109.020	015	Silver	EPA 200.8	
109.020	016	Thallum	EPA 200.8	
109.020	017	Vanadum	EPA 200.8	
109.020	018	Zhe	EPA 2008	
109.361	001	Meloury	EPA I031E	
Field of T	esting	: 110 - Volatile Organic Chemistry	of Wastewater	
110.040	000	Purgeable Organic Compounds	EPA 624	
Field of T	esting	: 111 - Semi-volatile Organic Cher	nistry of Wastewater	
111.100	000	BaseNeutral & Acid Organics	EPA 825	
111.103	000	Nitrosemines	EPA 625	
Field of T	esting	: 113 - Whole Effluent Toxicity of V	Vastewater	
113.021	001A	Fathead Minnow (P. promeias)	EPA 2000 (EPA-821-R-02-012), Static	
113.021	001B	Fathead Minnow (P. promelas)	EPA 2000 (EPA-821-R-02-012), Static Renewal	
113.021	001C	Fathead Minnow (P. promelas)	EPA 2000 (EPA-821-R-02-012), Continuous Flow	
Field of T	esting	: 114 - Inorganic Chemistry of Haz	ardous Waste	
14.020	001	Artimony	EPA 6020	
14.020	002	Arsenic	EPA 6020	
14.020	003	Barium	EPA 6020	
114.020	004	Beylium	EPA 6020	

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CALIFORNIA STATE ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM Fields of Accreditation



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Central Contra Costa Sanitary District, Dr. Mario M. Menesini Environmental Laboratory Environmental and Regulatory Compliance Certificate Number: 5015 Imhoff Place Expiration Date: 12/31/2026 Martinez, CA 94553 Phone: 9253357751

Field of Accreditation:107 - Microbiological Methods for Non-Potable Water and Sewage Sludge				
107.050 001	Total Coliform (Enumeration)	SM 9221 B-2014		
107.052 001	Fecal Coliform (Enumeration)	SM 9221 E-2014		
107.066 001	Enterococci	SM 9230 D-2013 Enterolert		
107.070 001	E. coli (Enumeration)	SM 9223 B-2016 Colilert 18		
107.070 002	Fecal Coliform (Enumeration)	SM 9223 B-2016 Collert 18		
Field of Accred	litation:108 - Inorganic Constituents in Non-Potable Water			
108.009 001	Turbidity	EPA 180.1		
108.025 001	Ammonia (as N)	EPA 350.1		
108.033 001	Nitrate-Nitrite (as N)	EPA 353.2		
108.033 002	Nitrite (as N)	EPA 353.2		
108.035 001	Phosphate,Ortho (as P)	EPA 365.1		
108.035 002	Phosphorus, Total	EPA 365.1		
108.053 001	Oil & Grease, Total Recoverable	EPA 1664 A		
108.063 001	Akainity	SM 2320 B-2011		
108.067 001	Hardness	5M 2340 C-2011		
108.069 001	Specific Conductance	SM 2510 B-2011		
108.070 001	Residue, Total	SM 2540 B-2015		
108.072 001	Residue, Fiterable TD5	SM 2540 C-2015		
108.074 001	Residue, Non-filterable TS5	SM 2540 D-2015		
108.078 001	Residue, Settleable	SM 2540 F-2015		
108.105 001	Chlorine, Total Residual	SM 4500-CI C-2011		
108.137 001	Hydrogen ion (pH)	SM 4500-H+ B-2011		
108.139 001	Ammonia (as N)	SM 4500-NH3 C-2011		
108.139 002	Kjeldahl Nitrogen, Total (as N)	SM 4500-NH3 C-2011		
108.149 001	Ammonia (as N)	SM 4500-NH3 H-2011		
108.166 001	Oxygen, Dissolved	SM 4500-O C-2016		
108.181 001	Phosphorus, Total	SM 4500-P H-2011		
108.201 001	Sulfide (as S)	SM 4500-5 D-2011		
108.206 002	Carbonaceous BOD	SM 5210 B-2016		
108.250 001	Oxygen, Dissolved	ASTM D888-12 (C)		
108.325 001	Chemical Oxygen Demand	Hach 8000		
108.335 001	Cyanide, Total	Kelada-01		
Field of Accred	litation: 100 - Metals and Trace Elements in Non-Potable Water			

As of 12/31/2024, this list supersedes all previous lists for this certificate number. Customers: Please verify the current accreditation standing with the State.

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Central Contra Costa Sanitary District, Dr. Mario M. Menesini Environmental Laborator Certificate Number:	1397
Expiration Date: 1	2/31/2026

109.625	002	Antimony	EPA 200.8
109.625	003	Arsenic	EPA 200.8
109.625	004	Barium	EPA 200.8
109.625	005	Berylium	EPA 200.8
109.625	007	Cadmium	EPA 200.8
109.625	800	Chromium	EPA 200.8
109.625	009	Cobait	EPA 200.8
109.625	010	Copper	EPA 200.8
109.625	013	Lead	EPA 200.8
109.625	014	Manganese	EPA 200.8
109.625	015	Molybdenum	EPA 200.8
109.625	016	Nickel	EPA 200.8
109.625	017	Selenium	EPA 200.8
109.625	018	Silver	EPA 200.8
109.625	019	Thalium	EPA 200.8
109.625	022	Vanadium	EPA 200.8
109.625	023	Zinc	EPA 200.8
109.635	001	Mercury	EPA 245.1
Field of	Accred	itation:110 - Volatile Organic Constituents in Non-Potable Wat	er
110.040	003	Azolein	EPA 624.1
110.040	004	Acrylonitrile	EPA 624.1
110.040	005	Benzene	EPA 624.1
110.040	006	Bromodichloromethane	EPA 624.1
110.040	007	Bromoform	EPA 624.1
110.040	800	Bromomethane (Methyl Bromide)	EPA 624.1
110.040	010	Carbon Tetrachloride	EPA 624.1
110.040	011	Chlorobenzene	EPA 624.1
110.040	012	Chioroethane	EPA 624.1
110.040	013	2-Chloroethyl vinyl Ether	EPA 624.1
110.040	014	Chloroform	EPA 624.1
110.040	015	Chloromethane (Methyl Chloride)	EPA 624.1
110.040	016	Dibromochloromethane (Chlorodibromomethane)	EPA 624.1
110.040	017	1,2-Dichlorobenzene	EPA 624.1
110.040	018	1,3-Dichlorobenzene	EPA 624.1
110.040	019	1,4-Dichlorobenzene	EPA 624.1
110.040	020	1,1-Dichloroethane	EPA 624.1
110.040	021	1,2-Dichloroethane (Ethylene Dichloride)	EPA 624.1
110.040	022	1,1-Dichloroethylene (1,1-Dichloroethene)	EPA 624.1
110.040	023	trans-1,2-Dichloroethylene (trans- 1,2 Dichloroethene)	EPA 624.1
110.040	024	1,2-Dichloropropane	EPA 624.1
110.040	025	cis-1,3-Dichloropropylene (cis 1,3 Dichloropropene)	EPA 624.1
110.040	026	trans-1,3-Dichloropropylene (trans-1,3 Dichloropropene)	EPA 624.1

As of 12/31/2024, this list supersedes all previous lists for this certificate number. Customers: Please verify the current accreditation standing with the State.

Central Contra Costa Sanitary District, Dr. Mario M. Menesini Environmental Laborator Certificate Number:	1397
Expiration Date:	12/31/2026

110.040	029	Ethylbenzene	EPA 624.1
110.040	031	Methylene Chloride (Dichloromethane)	EPA 624.1
110.040	034	1,1,2,2-Tetrachloroethane	EPA 624.1
110.040	035	Tetrachioroethylene (Tetrachioroethene)	EPA 624.1
110.040	037	Toluene	EPA 624.1
110.040	038	1,1,1-Trichloroethane	EPA 624.1
110.040	039	1,1,2-Trichloroethane	EPA 624.1
110.040	040	Trichloroethylene (Trichloroethene)	EPA 624.1
110.040	041	Vinyl Chloride	EPA 624.1
110.040	043	o-Xylene	EPA 624.1
110.040	045	Trichlorofluoromethane	EPA 624.1
110.040	046	m+p-Xylene	EPA 624.1
Field of	Accred	itation:111 - Semi-volatile Organic Constituents in Non-Potable	e Water
111.160	001	Acenaphthene	EPA 625.1
111.160	002	Acenaphthylene	EPA 625.1
111.160	003	Anthracene	EPA 625.1
111.160	004	Benzidine	EPA 625.1
111.160	005	Benzo(a)anthracene	EPA 625.1
111.160	006	Benzo(a)pyrene	EPA 625.1
111.160	007	Benzo(b)fluoranthene	EPA 625.1
111.160	800	Benzo(g,h,i)perylene	EPA 625.1
111.160	009	Benzo(k)fluoranthene	EPA 625.1
111.160	010	Bis(2-chloroethoxy) Methane	EPA 625.1
111.160	011	Bis(2-chloroethyl) Ether	EPA 625.1
111.160	012	bis(2-Chloroisopropyl) ether (2,2-Oxybis[1-chloropropane])	EPA 625.1
111.160	013	Bis(2-ethylhexyl)phthalate (Di(2-ethylhexyl) phthalate)	EPA 625.1
111.160	014	4-Bromophenyl Phenyl Ether	EPA 625.1
111.160	015	Butyl Benzyl Phthalate	EPA 625.1
111.160	016	2-Chioronaphthalene	EPA 625.1
111.160	017	4-Chiorophenyl Phenyl Ether	EPA 625.1
111.160	018	Chrysene	EPA 625.1
111.160	019	Dibenz(a,h)anthracene	EPA 625.1
111.160	020	3,3'-Dichlorobenzidine	EPA 625.1
111.160	021	Diethyl Phthalate	EPA 625.1
111.160	022	Dimethyl Phthalate	EPA 625.1
111.160	023	Di-n-butyl Phthalate	EPA 625.1
111.160	024	2,4-Dinitrotoluene	EPA 625.1
111.160	025	2,6-Dinitrotoluene	EPA 625.1
111.160	026	Di-n-octyl Phthalate	EPA 625.1
111.160	027	Fluoranthene	EPA 625.1
111.160	028	Fluorene	EPA 625.1
111.160	029	Hexachiorobenzene	EPA 625.1

As of 12/31/2024, this list supersedes all previous lists for this certificate number. Customers: Please verify the current accreditation standing with the State. Central Contra Costa Sanitary District, Dr. Mario M. Menesini Environmental Laborator Certificate Number: 1397 Expiration Date: 12/31/2026

111.160	030	Hexachlorobutadiene	EPA 625.1
111.160	031	Hexachioroethane	EPA 625.1
111.160	032	Indeno(1,2,3-c,d)pyrene	EPA 625.1
111.160	033	Isophorone	EPA 625.1
111.160	034	Naphthalene	EPA 625.1
111.160	035	Nîtobenzene	EPA 625.1
111.160	036	N-nitroso-di-n-propylamine (NDPA)	EPA 625.1
111.160	037	Phenanthrene	EPA 625.1
111.160	038	Pyrene	EPA 625.1
111.160	039	1,2,4-Trichlorobenzene	EPA 625.1
111.160	040	4-Chioro-3-methylphenol	EPA 625.1
111.160	041	2-Chlorophenol	EPA 625.1
111.160	042	2,4-Dichlorophenol	EPA 625.1
111.160	043	2,4-Dimethylphenol	EPA 625.1
111.160	044	2,4-Dinitrophenol	EPA 625.1
111.160	045	2-Methyl-4,6-dinitrophenol	EPA 625.1
111.160	046	2-Nitrophenol	EPA 625.1
111.160	047	4-Nitrophenol	EPA 625.1
111.160	048	Pentachiorophenol	EPA 625.1
111.160	049	Phenol	EPA 625.1
111.160	050	2,4,6-Trichlorophenol	EPA 625.1
111.160	098	Hexachlorocyclopentadiene	EPA 625.1
111.160 111.160	098 108	Hexachlorocyclopentadiene N-nitrosodimethylamine (NDMA)	EPA 625.1 EPA 625.1
111.160 111.160 111.160	098 108 110	Hexachlorocyclopentadiene N-nitrosodimethylamine (NDMA) N-nitrosodiphenylamine	EPA 625.1 EPA 625.1 EPA 625.1
111.160 111.160 111.160 111.160	098 108 110 143	Hexachlorocyclopentadiene N-nitrosodimethylamine (NDMA) N-nitrosodiphenylamine 1,2-Diphenylhydrazine	EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1
111.160 111.160 111.160 111.160 Field of	098 108 110 143 Accredi	Hexachiorocyclopentadiene N-nitrosodimethylamine (NDMA) N-nitrosodiphenylamine 1,2-Diphenylhydrazine itation:113 - Environmental Toxicity Methods	EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1
111.160 111.160 111.160 111.160 Field of / 113.011	098 108 110 143 Accredi 001C	Hexachlorocyclopentadiene N-nitrosodimethylamine (NDMA) N-nitrosodiphenylamine 1,2-Diphenylhydrazine itation:113 - Environmental Toxicity Methods Fathead Minnow (P. promelas)	EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1 EPA 2000.0, Continuous Flow
111.160 111.160 111.160 111.160 Field of J Field of J	098 108 110 143 Accredi 001C	Hexachlorocyclopentadiene N-nitrosodimethylamine (NDMA) N-nitrosodiphenylamine 1,2-Diphenythydrazine itation:113 - Environmental Toxicity Methods Fathead Minnow (P. prometas) itation:114 - Inorganic Constituents in Hazardous Waste	EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1
111.160 111.160 111.160 111.160 Field of / 113.011 Field of / 114.335	098 108 110 143 Accredi 001C Accredi 002	Hexachlorocyclopentadiene N-nitrosodimethylamine (NDMA) N-nitrosodiphenylamine 1,2-Diphenylhydrazine itation:113 - Environmental Toxicity Methods Fathead Minnow (P. promelas) itation:114 - Inorganic Constituents in Hazardous Waste Antimony	EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1 EPA 2000.0, Continuous Flow EPA 6020
111.160 111.160 111.160 111.160 Field of J 113.011 Field of J 114.335 114.335	098 108 110 143 Accredi 001C Accredi 002 003	Hexachlorocyclopentadiene N-nitrosodimethylamine (NDMA) N-nitrosodiphenylamine 1,2-Diphenylthydrazine itation:113 - Environmental Toxicity Methods Fathead Minnow (P. promelas) itation:114 - Inorganic Constituents in Hazardous Waste Antimony Arsenic	EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1 EPA 2000.0, Continuous Flow EPA 6020 EPA 6020 EPA 6020
111.160 111.160 111.160 111.160 111.160 111.160 Field of 113.011 Field of 114.335 114.335	098 108 110 143 Accredi 001C Accredi 002 003 004	Hexachlorocyclopentadiene N-nitrosodimethylamine (NDMA) N-nitrosodiphenylamine 1,2-Diphenylhydrazine itation:113 - Environmental Toxicity Methods Fathead Minnow (P. promelas) itation:114 - Inorganic Constituents in Hazardous Waste Antimony Arsenic Barium	EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1 EPA 6020. EPA 6020 EPA 6020 EPA 6020
111.160 111.160 111.160 111.160 111.160 Field of 113.011 Field of 114.335 114.335 114.335	098 108 110 143 Accredi 001C Accredi 002 003 004 005	Hexachlorocyclopentadiene N-nitrosodimethylamine (NDMA) N-nitrosodiphenylamine 1,2-Diphenythydrazine itation:113 - Environmental Toxicity Methods Fathead Minnow (P. promelas) itation:114 - Inorganic Constituents in Hazardous Waste Antimony Arsenic Barium Berytium	EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1 EPA 2000.0, Continuous Flow EPA 6020 EPA 6020 EPA 6020 EPA 6020 EPA 6020
111.160 111.160 111.160 111.160 111.160 Field of 113.011 Field of 114.335 114.335 114.335 114.335	098 108 110 143 Accredi 001C Accredi 002 003 004 005 006	Hexachlorocyclopentadiene N-nitrosodimethylamine (NDMA) N-nitrosodiphenylamine 1,2-Diphenylhydrazine itation:113 - Environmental Toxicity Methods Fathead Minnow (P. promelas) itation:114 - Inorganic Constituents in Hazardous Waste Antimony Arsenic Barium Beryllium Cadmium	EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1 EPA 2000.0, Continuous Flow EPA 6020 EPA 6020 EPA 6020 EPA 6020 EPA 6020 EPA 6020 EPA 6020
111.160 111.160 111.160 111.160 111.160 Field of 113.011 Field of 114.335 114.335 114.335 114.335 114.335	098 108 110 143 Accredi 001C Accredi 002 003 004 005 006 007	Hexachlorocyclopentadiene N-nitrosodimethylamine (NDMA) N-nitrosodiphenylamine 1,2-Diphenythydrazine itation:113 - Environmental Toxicity Methods Fathead Minnow (P. prometas) itation:114 - Inorganic Constituents in Hazardous Waste Antimony Arsenic Barium Berytium Cadmium Chromium	EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1 EPA 2000.0, Continuous Flow EPA 6020 EPA 6020 EPA 6020 EPA 6020 EPA 6020 EPA 6020 EPA 6020 EPA 6020
111.160 111.160 111.160 111.160 111.160 Field of 113.011 Field of 114.335 114.335 114.335 114.335 114.335 114.335	098 108 110 143 Accredi 001C 002 003 004 005 006 007 008	Hexachlorocyclopentadiene N-nitrosodimethylamine (NDMA) N-nitrosodiphenylamine 1,2-Diphenylthydrazine itation:113 - Environmental Toxicity Methods Fathead Minnow (P. promelas) itation:114 - Inorganic Constituents in Hazardous Waste Antimony Arsenic Barium Berylium Cadmium Chromium Cobalt	EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1 EPA 2000.0, Continuous Flow EPA 6020 EPA 6020 EPA 6020 EPA 6020 EPA 6020 EPA 6020 EPA 6020 EPA 6020 EPA 6020 EPA 6020
111.160 111.160 111.160 111.160 111.160 111.160 111.160 113.011 Field of J 114.335 114.335 114.335 114.335 114.335 114.335 114.335	098 108 110 143 Accredi 001C 002 003 004 005 006 007 008 009	Hexachlorocyclopentadiene N-nitrosodimethylamine (NDMA) N-nitrosodiphenylamine 1,2-Diphenylthydrazine itation:113 - Environmental Toxicity Methods Fathead Minnow (P. promelas) itation:114 - Inorganic Constituents in Hazardous Waste Antimony Arsenic Barium Berytium Cadmium Chromium Cobalt Copper	EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1 EPA 6020. EPA 6020 EPA 6020
111.160 111.160 111.160 111.160 111.160 Field of 113.011 Field of 114.335 114.335 114.335 114.335 114.335 114.335 114.335	098 108 110 143 Accredi 001C 002 003 004 005 006 007 008 009 010	Hexachlorocyclopentadiene N-nitrosodimethylamine (NDMA) N-nitrosodiphenylamine 1,2-Diphenylhydrazine itation:113 - Environmental Toxicity Methods Fathead Minnow (P. promelas) itation:114 - Inorganic Constituents in Hazardous Waste Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead	EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1 EPA 2000.0, Continuous Flow EPA 6020 EPA 6020
111.160 111.160 111.160 111.160 111.160 111.160 111.160 111.160 111.160 111.160 111.160 111.160 111.160 111.160 114.335 114.335 114.335 114.335 114.335 114.335 114.335 114.335 114.335 114.335 114.335 114.335 114.335 114.335	098 108 110 143 Accredi 001C 002 003 004 005 006 007 008 009 010 012	Hexachlorocyclopentadiene N-nitrosodimethylamine (NDMA) N-nitrosodiphenylamine 1,2-Diphenylthydrazine itation:113 - Environmental Toxicity Methods Fathead Minnow (P. promelas) itation:114 - Inorganic Constituents in Hazardous Waste Antimony Arsenic Barium Beryllium Codmium Cobalt Copper Lead Nickel	EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1 EPA 6020. EPA 6020 EPA 6020
111.160 111.160 111.160 111.160 111.160 111.160 Field of , 113.011 Field of , 114.335 114.335 114.335 114.335 114.335 114.335 114.335 114.335	098 108 110 143 Accredi 001C 002 003 004 005 006 007 008 009 010 012 013	Hexachiorocyclopentadiene N-nitrosodimethylamine (NDMA) N-nitrosodiphenylamine 1,2-Diphenylthydrazine itation:113 - Environmental Toxicity Methods Fathead Minnow (P. prometas) itation:114 - Inorganic Constituents in Hazardous Waste Antimony Arsenic Barium Berylium Cadmium Cobalt Copper Lead Nickel Silver	EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1 EPA 6020. EPA 6020 EPA 6020
111.160 111.160 111.160 111.160 111.160 111.160 111.160 111.160 111.160 111.160 111.160 111.160 111.160 111.160 114.335 114.335 114.335 114.335 114.335 114.335 114.335 114.335 114.335 114.335 114.335 114.335 114.335 114.335 114.335 114.335 114.335	098 108 110 143 Accredi 001C 002 003 004 005 006 007 008 009 010 012 013 014	Hexachlorocyclopentadiene N-nitrosodimethylamine (NDMA) N-nitrosodiphenylamine 1,2-Diphenylthydrazine itation:113 - Environmental Toxicity Methods Fathead Minnow (P. promelas) itation:114 - Inorganic Constituents in Hazardous Waste Antimony Arsenic Barium Berylium Cadmium Chromium Cobalt Copper Lead Nickel Silver Thalium	EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1 EPA 6000. EPA 6000 EPA 6000
111.160 111.160 111.160 111.160 111.160 111.160 111.160 111.160 111.160 111.301 114.335 114.335 114.335 114.335 114.335 114.335 114.335 114.335 114.335 114.335	098 108 110 143 Accredi 001C 002 003 004 005 006 007 008 009 010 012 013 014 015	Hexachlorocyclopentadiene N-nitrosodimethylamine (NDMA) N-nitrosodiphenylamine 1,2-Diphenylthydrazine itation:113 - Environmental Toxicity Methods Fathead Minnow (P. promelas) itation:114 - Inorganic Constituents in Hazardous Waste Antimony Arsenic Barium Berytium Cadmium Chromium Copper Lead Nickel Silver Thallium	EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1 EPA 625.1 EPA 6020. EPA 6020 EPA 60

As of 12/31/2024 , this list supersedes all previous lists for this certificate number. Customers: Please verify the current accreditation standing with the State.

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Central Contra Costa Sanitary District, Dr. Mario M. Menesini Environmental Laborator Certifica	te Number:	1397
Expi	ration Date: 12	2/31/2026

114.335	017	Selenium	EPA 6020
114.335	018	Vanadium	EPA 6020
114.535	001	Mercury	EPA 7471 A
Field of	Accredi	itation:115 - Leaching/Extraction Tests and Physical Character	istics of Hazardous Waste
115.135	001	Corrosivity - pH Determination	EPA 9045 C
Field of	Accredi	itation:116 - Volatile Organic Compounds in Hazardous Waste	
116.265	001	Benzene	EPA 8260 B
116.265	004	Bromodichloromethane	EPA 8260 B
116.265	005	Bromoform	EPA 8260 B
116.265	006	Bromomethane (Methyl Bromide)	EPA 8260 B
116.265	010	Carbon Disulfide	EPA 8260 B
116.265	011	Carbon Tetrachloride	EPA 8260 B
116.265	012	Chiorobenzene	EPA 8260 B
116.265	013	Chlorodibromomethane (Dibromochloromethane)	EPA 8260 B
116.265	014	Chioroethane	EPA 8260 B
116.265	015	Chloroform	EPA 8260 B
116.265	016	Chioromethane (Methyl Chioride)	EPA 8260 B
116.265	018	Dichlorodifluoromethane (Freon 12)	EPA 8260 B
116.265	019	cis-1,2-Dichloroethylene (cis 1,2 Dichloroethene)	EPA 8260 B
116.265	020	trans-1,2-Dichloroethylene (trans- 1,2 Dichloroethene)	EPA 8260 B
116.265	021	cis-1,3-Dichloropropylene (cis 1,3 Dichloropropene)	EPA 8260 B
116.265	022	trans-1,3-Dichloropropylene (trans-1,3 Dichloropropene)	EPA 8260 B
116.265	023	Ethylbenzene	EPA 8260 B
116.265	025	Methyl tert-butyl Ether (MTBE)	EPA 8260 B
116.265	026	Methylene Chloride (Dichloromethane)	EPA 8260 B
116.265	030	Styrene	EPA 8260 B
116.265	031	Tetrachioroethylene (Tetrachioroethene)	EPA 8260 B
116.265	032	Toluene	EPA 8260 B
116.265	033	Trichloroethylene (Trichloroethene)	EPA 8260 B
116.265	034	Trichlorofluoromethane	EPA 8260 B
116.265	035	Vinyl Chloride	EPA 8260 B
116.265	036	m+p-Xylene	EPA 8260 B
116.265	037	o-Xylene	EPA 8260 B
116.265	040	1,1-Dichloroethane	EPA 8260 B
116.265	041	1,1-Dichloroethylene (1,1-Dichloroethene)	EPA 8260 B
116.265	042	1,1,1-Trichloroethane	EPA 8260 B
116.265	044	1,1,2,2-Tetrachloroethane	EPA 8260 B
116.265	045	1,1,2-Trichloroethane	EPA 8260 B
116.265	046	1,2-Dichlorobenzene	EPA 8260 B
116.265	047	1,2-Dichloroethane (Ethylene Dichloride)	EPA 8260 B
116.265	050	1,2-Dichloropropane	EPA 8260 B
116.265	053	1,3-Dichlorobenzene	EPA 8260 B

As of 12/31/2024, this list supersedes all previous lists for this certificate number. Customers: Please verify the current accreditation standing with the State.

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Central Contra Costa Sanitary District, Dr. Mario M. Menesini Environmental Laborator Certificate Number:	1397
Expiration Date: 12	/31/2026

116.265 054	1,4-Dichlorobenzene	EPA 8260 B
116.265 055	2-Chloroethyl vinyl Ether	EPA 8260 B
116.265 057	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	EPA 8260 B
Field of Accred	itation:117 - Semi-volatile Organic Chemistry of Hazardous Wa	aste
117.435 001	Acenaphthene	EPA 8270 C
117.435 002	Acenaphthylene	EPA 8270 C
117.435 004	Anthracene	EPA 8270 C
117.435 005	Benzidine	EPA 8270 C
117.435 007	Benzo(a)anthracene	EPA 8270 C
117.435 008	Benzo(b)fluoranthene	EPA 8270 C
117.435 009	Benzo(k)fluoranthene	EPA 8270 C
117.435 010	Benzo(g,h,i)perylene	EPA 8270 C
117.435 011	Benzo(a)pyrene	EPA 8270 C
117.435 013	Bis(2-chloroethoxy) Methane	EPA 8270 C
117.435 014	Bis(2-chloroethyl) Ether	EPA 8270 C
117.435 015	Bis(2-ethylhexyl)phthalate (Di(2-ethylhexyl) phthalate)	EPA 8270 C
117.435 016	Butyl Benzyl Phthalate	EPA 8270 C
117.435 017	Chrysene	EPA 8270 C
117.435 018	Dibenz(a,h)anthracene	EPA 8270 C
117.435 020	Di-n-butyl Phthalate	EPA 8270 C
117.435 021	Diethyl Phthalate	EPA 8270 C
117.435 022	Dimethyl Phthalate	EPA 8270 C
117.435 023	Di-n-octyl Phthalate	EPA 8270 C
117.435 024	Fluoranthene	EPA 8270 C
117.435 025	Fluorene	EPA 8270 C
117.435 026	Naphthalene	EPA 8270 C
117.435 027	Nitrobenzene	EPA 8270 C
117.435 029	Pentachiorophenol	EPA 8270 C
117.435 034	2-Chloronaphthalene	EPA 8270 C
117.435 035	2-Chlorophenol	EPA 8270 C
117.435 036	2,4-Dichlorophenol	EPA 8270 C
117.435 037	2,4-Dimethylphenol	EPA 8270 C
117.435 038	2,4-Dinitrophenol	EPA 8270 C
117.435 039	2,4-Dinitrotoluene	EPA 8270 C
117.435 041	2,6-Dinitrotoluene	EPA 8270 C
117.435 043	2-Nitrophenol	EPA 8270 C
117.435 045	3,3'-Dichlorobenzidine	EPA 8270 C
117.435 047	4-Chioro-3-methylphenol	EPA 8270 C
117.435 048	4-Bromophenyl Phenyl Ether	EPA 8270 C
117.435 049	4-Chlorophenyl Phenyl Ether	EPA 8270 C
117.435 051	4-Nitrophenol	EPA 8270 C
117.435 088	N-nitrosodimethylamine (NDMA)	EPA 8270 C

As of 12/31/2024 , this list supersedes all previous lists for this certificate number. Customers: Please verify the current accreditation standing with the State.

Central Contra Costa Sanitary District, Dr. Mario M. Menesini Environmental Laborator Certificate Number: 1397 Expiration Date: 12/31/2028

117.435	089	N-nitrosodiphenylamine	EPA 8270 C
117.435	090	N-nitroso-di-n-propylamine (NDPA)	EPA 8270 C
117.435	091	Indeno(1,2,3-c,d)pyrene	EPA 8270 C
117.435	092	Isophorone	EPA 8270 C
117.435	094	Phenanthrene	EPA 8270 C

As of 12/31/2024, this list supersedes all previous lists for this certificate number. Customers: Please verify the current accreditation standing with the State.

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4.0 REQUIRE MONITORING INSTRUMENTS AND DEVICES USED TO IMPLEMENT THE SSS WATER QUALITY MONITORING PROGRAM TO BE PROPERLY MAINTAINED AND CALIBRATED, INCLUDING ANY RECORDS TO DOCUMENT MAINTENANCE AND CALIBRATION, AS NECESSARY, TO ENSURE THEIR CONTINUED ACCURACY

The below list references documents where persons reviewing SSS data would look to answer questions about calibration and maintenance of equipment used to measure parameters for an SSS sample. The three documents listed below are kept at Central San's Laboratory in Martinez, California. Records pertaining to maintenance and calibration of equipment used to analyze SSS samples are available by request.

- 1. Central Contra Costa Sanitary District Dr. Mario M. Menesini Environmental Laboratory Quality Assurance Manual.
- 2. Standard Operating Procedures for methods used to analyze sanitary sewer spill samples. (These will have calibration procedures/frequency along with quality control frequencies and acceptance limits.)
- 3. Instrument logbooks where preventative or reactive maintenance along with software updates are described.

5.0 WITHIN 18 HOURS OF THE ENROLLEE BECOMING AWARE OF THE SSS, REQUIRE WATER QUALITY SAMPLING FOR, AT A MINIMUM, THE FOLLOWING CONSTITUENTS:

- AMMONIA
- APPROPRIATE BACTERIAL INDICATOR(S) PER THE APPLICABLE BASIN WATER PLAN WATER QUALITY OBJECTIVE OR REGIONAL BOARD DIRECTION WHICH MAY INCLUDE TOTAL AND FECAL COLIFORM, ENTEROCOCCUS, AND E-COLI

SSS Sampl	ing Contact Infor	mation
Company	Contact Person	Phone #
Central San Laboratory	Blake Brown	925-229-7237
Program Administrator		925-324-5721 cell
Central San Supervising	Jesse McDermott	925-229-7216
Chemist		530-966-4056 cell
Central San Collection	Steve Sauter	925-229-7150
System Superintendent		925-260-2046 cell
Central San Collection	Alex Benavidez	925-229-7175
System Supervisor		925-383-0795 cell
Central San Collection	Paul Seitz	925-335-7743
System Division Manager		925-383-0033 cell
Environmental Science	Garrett Leidy	510-463-6738
Associates Biologist	-	
Environmental Science	Erich Fischer	916-564-4500
Associates Vice President		

FIELD EQUIPMENT SUPPLIES NEEDED FOR SAMPLING

The following list describes equipment that should be stocked and readily available for each water quality sampling event.

- 1. Personnel protective equipment including latex/nitrile gloves and eye protection
- 2. Four Coolers for samples
 - a. Storm drain entry point (DCS-001)
 - b. entry point sample (RSW-001)
 - c. upstream sample (RSW-001U)
 - d. downstream sample (RSW-001D)
- 3. Ice for coolers to keep samples cold
- 4. 12 –290mL Sterile plastic containers (containing sodium thiosulfate preservative) for Bacteria sample collection
 - a Bottle 1 for Coliform & Enterococcus (1 bottle per kit)
 - b. Bottle 2 for E. coli (1 bottle per kit)
 - c. Sacrificial sterile bottle for sample collection (1 bottle per kit)
- 5. 4 Sets of dechlor/preservation kits (3a & 3b)
 - a. Bottle 3a (290mL sterile container containing sodium thiosulfate preservative) (1 per kit)
 - b. Bottle 3b (250mL plastic bottle with Sulfuric Acid) (1 per kit)
- 6. 1 Sampling apparatus with 10' extension handle
- 7. 1 Gallon plastic bags used for any trash
- 8. Chain of Custody Forms

Ensure that there are adequate quantities of sample containers-kits if there are more than three sample locations

SAMPLE COLLECTION BEST PRACTICE

- 1. Collect all grab samples approximately 3"– 6" below the surface (or if shallower, as close as possible to this depth) to avoid sampling debris or scum from the surface.
- 2. Collect the sample in a safe manner in the middle of the flow, against the direction of water flow.
- **3.** Once the lid is opened for the individual sample bottle, do not touch the inside surface of the bottle or lid.
- 4. For sample bottles that contain a preservative, take care to keep the preservation material in the container and do not overfill.
- 5. Once samples have been gathered, immediately place all sample bottles on ice.
- 6. Deliver samples to Centra San's Laboratory.

SAMPLING TIME CONSTRAINTS

Bacteria samples have a 6-hour (preserved and cooled) regulatory holding time. Samples will not be analyzed if the holding time has been exceeded. Central San's Laboratory needs about 1 hour to set up the tests.

Samples must be maintained at 6°C/ 43°F (on ice or refrigerated) from the time of collection until receipt by Central San's Laboratory.

SAMPLING PROCEDURE

- 1. Remove four (4) ice chests from Spill Response Cabinet located in the CSO Warehouse.
- 2. Verify all four ice chests each have the following:



- (1) Sacrificial sterile sampling bottle (for pouring) with sterility seal intact
- (2) 290ml bottle (Bottles 1 & 2) (with dichlorination reagent already inside and plastic sterility seal intact)
- (1) dechlor/preservation kit taped together (Bottles 3a & 3b)
 - 1 290mL sterile bottle with dechlorination agent
 - 1 250mL plastic bottle with Sulfuric acid
- 3. Fill ice chests approximately half-full of ice.
- 4. Spill location samples should be taken at the entry point (site) of spill (RSW-001), approximately 100' upstream of entry point (RSW-001U) and 100' downstream of entry point location (RSW-001D). If the spill enters a drainage conveyance system, additionally collect at the entry point to the drainage conveyance system (DCS-001).

- 5. Sampling Instructions
 - Bottles 1 & 2 (2)-290mL sterile plastic bottles & (1) 290mL sacrificial sterile pouring bottle



- Remove the plastic sterility seal
- Remove the cap of bottle 1 and do not allow the inside of the cap to touch anything (to prevent contamination)
- Use sacrificial 290mL sterile container to fill bottles 1 and 2 to the 250mL fill line taking caution not to overfill.
- Replace the lid and retain the sacrificial bottle to fill sample 3a.
- Fill in the label with collection date/time
- Sample bottles 3a & 3b (3a is a 290mL Dechlor container and 3b is a 250mL preservation container)



- Fill bottle 3a with the sacrificial bottle used above without overfilling, this bottle contains dechlorination agent.
- Cap 3a and shake to dissolve the dechlorination agent.
- Pour the contents of bottle 3a into bottle 3b without overfilling. Bottle 3b contains sulfuric acid to preserve the sample. Use caution, Sulfuric acid could cause acid burns.
- Cap 3b.

• Fill in the label with the collection date/time.

Â	Central Contra C 5019 Imhoff Place, N (925) LABO	osta Sanitary District ^{Jartinez, CA 94553-4392} 228-9500 RATORY
LAB ID:		DATE
SAMPLE SITE		TIME
ANALYZE FOR:	E.coli/Fecal Coliform, Enteroco	ccus (Bottle 1)
PRESERVATIVE:	Sodium thio	BY:
	Central Contra C 5019 Imhoff Place, r (925) LABO	osta Sanitary District ^{Martinez, CA 94553-4392} 228-9500 RATORY
LAB ID:		DATE
SAMPLE SITE		TIME
ANALYZE FOR:	Total Coliform (Bottle 2)	
PRESERVATIVE:	Sodium thio	BY:
	Central Contra C 5019 Imhoff Place, I (925) LABO	osta Sanitary District Martinez, CA 94553-4392 228-9500 RATORY
LAB ID:		DATE
SAMPLE SITE		TIME
ANALYZE FOR:	NH3 (Bottle 3a & 3b)	
PRESERVATIVE:	H2SO4+ Sodium thio	BY:

- 6. Repeat Step 5 for each of the sampling locations.
- 7. Fill out labels with appropriate information (see below). Use Sharpie ultra-fine point or similar, to avoid smearing.
- 8. Put all sample bottles in their corresponding ice chests and deliver to lab within 5 hours
- 9. Fill out Chain of Custody Form for each location where samples were taken

CHAIN OF CUSTODY FORM

CENTRAL SAN CENTRAL SAN CETTAL COTA COTA	Cha central so19 In Martine	in of C contra Cos hoff Place Z, CA 34553	t ustody ta santary Diat	liet											K C	ER(yworks orkorde	CLAB(iso-s/	Revi Bevi	0-FOR sion: 5 /2025
Report To: Steve Sauter, Alex Benavidez, Paul Seliz Steve@centralsan.org, abenavidez@centralsan.org, pseltz@centrals	an.org		sampled by:							Param	eters T	o Be Ani	lyzed				-	reser	ative	
			sampler signat	ure:																
Site Address:																				
Instructions: Both a 2: Both a 2: Both as a 2: Both as a 2: Both as a 2: Both as a 3 b: Both as a 5 b: Pour contents of both 3 and invert to dissolve sodium thiosurfate. (do no Pour contents of both 3 and invert to dissolve sodium thiosurfate. (do no Pour contents of both 3 into both 30. Use cauthon when pouring. I	I the sacrificial s III both bottles 1 t over fill the bo bottle 3b contail	terlie bottle v and 2) ttle) is concentral	ithout touching t ed acid.	he rim of the bol	le. Fil the t	otte to the	ue			(he dioretin3	(91-	(21-448110-2)					(uopoajoo u odn u opar.	feldet noten holdoeb et et		
Sample ID	LIMS ID	Sample Type1	Collection Date	Collection Time	Bottle Type2	Number of Bottles	gwO bevioseiQ	Hq	einommA	succoccia (000	eniloo) (colilee	monico listoT					Temp 0-6C	usoidT muibo8		
Drainage Conveyance DC3-001 (Bottle 1)		9			۵.	÷				×	×	×			┝		×	×	\vdash	
Drainage Conveyance DC3-001 (Bottle 2)		ø			٩	-						×					×	×		
Drainage Conveyance DC3-001 (Bottles 3a & 3b) ^a		G			Р	4			x								x x	×		
								_												
Upstream-RSW-001U (Bottle 1)		9			Р	4				x	x	×					x	x		
Upstream-RSW-001U (Bottle 2)		9			Р	1						x					x	x		
Upstream-R3W-001U (Bottles 3a & 3b)*		9			Р	1			x								x x	x		
She-RSW-001 (Bothe 1)		9			Р	4				x	x	×					x	x		
Site-RBW-001 (Bottle 2)		G			Ρ	1						x					×	x		
Sile-RSW-OD1 (Bottles 3a 8.3b)*		9			Р	1			x								x x	x		
																			\mid	
													_		_		_		_	
Downstream-R3W-001D (Bottle 1)		U			٩	1				×	×	×					×	×		
Downstream-R3W-001D (Bottle 2)		9			P	1						x					×	×		
Downstream-R3W-001D (Bottles 3a & 3b) ⁴		G			Р	1			x								x x	x		
										_		_	_		_		_		_	
¹ Sample Type; C- Composite, G - Grab, CG - Composite Grab ² Sample Trans AG - Amber Silver 70 - Class Class B - Bolv V - VOA							Total N	umber	of Bott	88										
adden spectral ministration is the same as collection.					-															
Comments:						Relln	quished	by:		Dat		Time	Race	ved by:			Date		Ē	e
Reviewed: Date:		Pa	je 1 of 2								1					+				

CHAIN OF CUSTODY FORM – INSTRUCTION PAGE



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Remove seal and lid from Sacrificial Subsampling Bottle and fill the bottle with sample. Remove the lid and seal from Bottle 1 and do not set the lid down. Pour sample from the Sacrificial Subsampling Bottle into Bottle 1 and avoid touching anything to the rim of the bottle. Fill to the 250 mL line, but do not overfill!

Refill the Sacrificial Subsampling Bottle with sample. Remove the lid and seal from Bottle 2 and do not set the lid down. Pour sample from the Sacrificial Subsampling Bottle into Bottle 2 and avoid touching anything to the rim of the bottle. Fill to the 250 mL line, but do not overfill!



Using either the Sacrificial Subsampling Bottle, or another sampling device, collect the sample. Remove lid and seal from Botle 3a and fill to the 250 mL line with sample, but do not overfill! Replace the lid and shake to dissolve the sodium thiosulfate to dechlorinate sample. Remove the lid from Bottle 3b, but take caution as the bottle contains strong acid. Pour sample from Bottle 3a into Bottle 3b and replace the lid on Bottle 3b.

11. REFERENCES

- A. Pumping Stations Emergency Response Plan
- B. Statewide Waste Discharge Requirements Order WQ 2022-0103-DWQ
- C. Water Quality Code Sections (please refer to page 5 for Authority list)