City of Salinas
Monitoring and Reporting Program FY24/25
Scope and Budget

Description & Permit Requirement

The City of Salinas is required to perform a Monitoring and Reporting Program (MRP) as indicated in **Section K** and **Attachment D** of the NPDES permit. The current MRP was adopted in July 2017 and is in its seventh monitoring year. The City will continue with the current MRP program while an updated MRP is refined and approved by the Water Board in the City's NPDES permit renewal. Resources under this scope will support the monitoring and reporting program under the current and approved MRP for fiscal year 24/25 (see Table 1 with a schedule of the required pollutant monitoring). Salinas' monitoring program includes continuous hydrology measurements and water quality stormwater sample collection at three urban drainage outfalls to directly sample and better understand the stormwater volume and pollutant loads generated from the City and discharged to regulated receiving waters. Additionally, stormwater grab samples are collected from the Salinas Pump Station to characterize water quality discharged to the Salinas River. Water quality samples are collected at Gabilan and Natividad upstream of the Salinas MS4 boundary to determine water quality conditions associated with upstream drainages. The attached map illustrates all the designated monitoring sites under the MRP. All data collected will be managed, reviewed, synthesized, and summarized in annual report.

Contract Objectives:

- Coordinate all stakeholders and consultants to effectively monitor stormwater to meet permit compliance including field sampling teams at urban outfalls, receiving waters, and analytical laboratories.
- Perform and collect stormwater samples at designated urban outfalls for a minimum of three rain events.
- Perform and collect stormwater samples at background receiving water sites and receiving water site at nine visits per year.
- Compile all analytical, hydrology, and water quality data and prepare data for the annual report submitted to the Regional Board.

Budget: $225,000

See Table 2 for more information on the cost distribution.

Parameter Groups		Traditional Water Quality Suite (Nutrients & Chemical)																		Metals							Organics			Water Toxicity		Bio Assessments		Sediment Analyte Suite			
Site Classification	Site ID	Photo Monitoring	Flow (cfs)	Precipitation	Temperature	Total Suspended Solids (TSS)	Total Dissolved Solids (TDS)	Turbidity	Fecal Coliform	pH	Conductivity	Dissolved Oxygen	Hardness	Total Ammonia	Unionized Ammonia	Total Nitrogen	Nitrate + Nitrite (as N)	Orthophosphate	Total Phosphorus (as P)	Total Arsenic	Total Cadmium	Total Copper	Total Lead	Total Nickel	Total Zinc	Dissolved Zinc	Pyrethroids	Fipronil	Imidacloprid	Hyalella Azteca (96-hr)	Chironomus dilutus (96-hr)	Benthic Invertebrate and Algae Bioassessment	Associated Habitat Assessment	Toxicity: Hyalella Azteca (10-day)	Pyrethroid Pesticides in Sediment	Sediment Grain Size	Total Organic Carbon
Urban Drainage Outfall	RD730		I	W	I	P	P	P	P	P	P		P	P	P		P	P		P	P	P	P		P		C	C								
	RD513		I	W	I	P	P	P	P	P	P		P	P	P		P	P		P	P	P	P		P		C	C								
	RD518		I	W	I	P	P	P	P	P	P		P	P	P		P	P		P	P	P	P		P		C	C								
	309U19	F	F		F	G	F	F	G	F	F		G	G	G		G	G		G	G	G	G		G		G	G								
Receiving Water	309 ALD	F	F		F	G	F	F	G	F	F	F	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	G	G	G	G	G	G
	309DAV																															G	G				
Background Receiving Water*	309GAB		F		F				G				G				G	G				G			G											
	309NAD		F		F				G				G				G	G				G			G											

* All analytes besides fecal coliform sampled and analyzed for CMP

Sample Type	
G	Grab Sample
C	Composite of Passive Samples
P	Passive sample
I	In-situ Probe
F	Field hand held probe
W	Weather Station

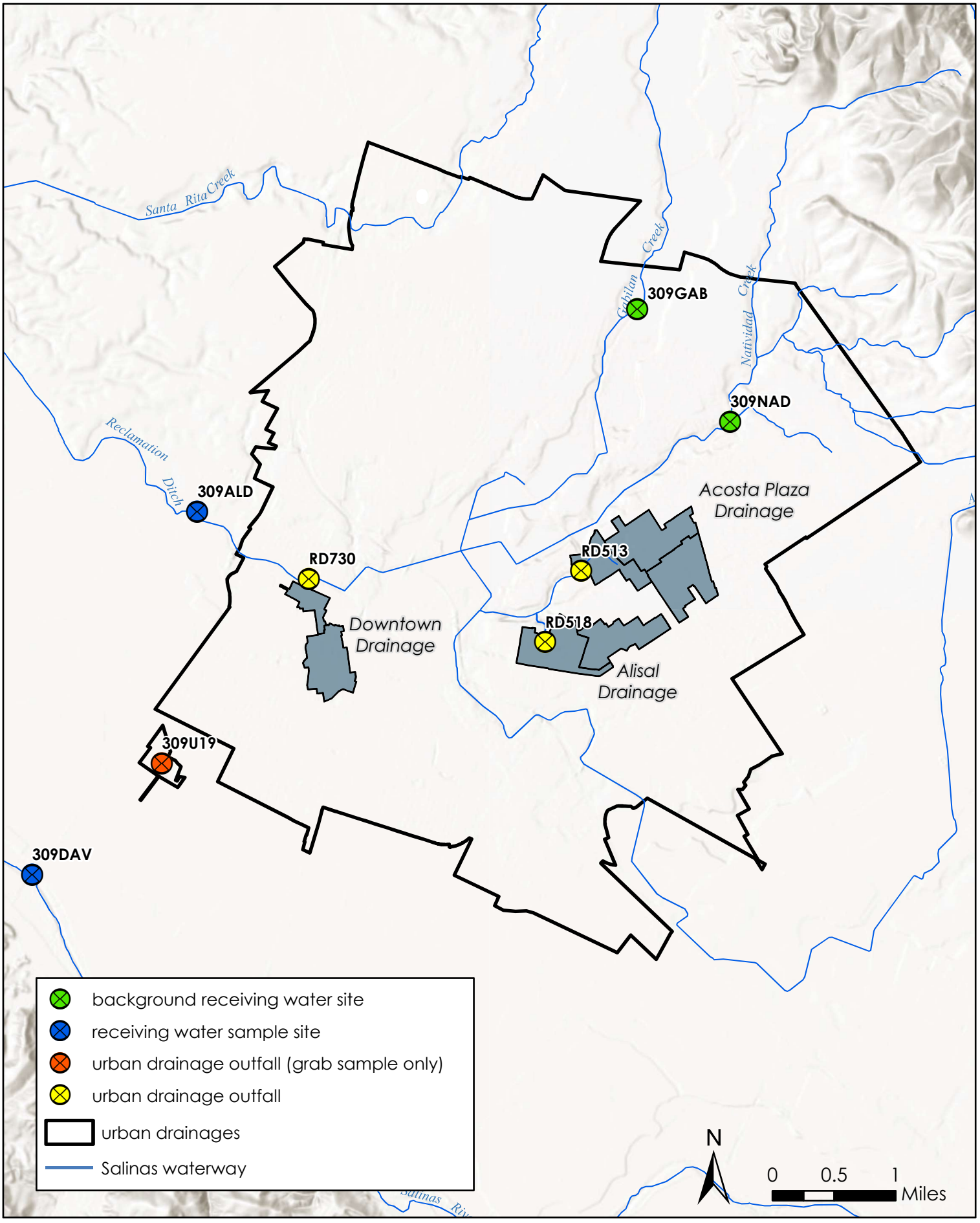
Sample Frequency
Annually; Continuous - instruments @ 10 min, weather precip in daily volume
Annually; at least 3 rain events including first flush; up to 4 discrete samples per event
Annually; First Flush only; up to 4 discrete samples per event at instrumented outfalls
Yr 1 and Yr 5; First Flush only; Composite of up to 4 samples per event
One yr only - monthly Oct - Apr (include 2 rain events: first flush event +1 other) and 2 dry months -July and Sep
One year only - once in dry, once in wet season
One year only - once in spring
Annually; monthly Oct - Apr (include 2 rain events: first flush event +1 other) and 2 dry months -July and Sep

CLEAN WATER SALINAS

Pollutant Sampling Schedule

MRP sample frequency analyte schedule at all monitoring stations.

TABLE 1



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City of Salinas Monitoring and Reporting Program - Monitoring Locations.

FIGURE 1

FY24/25 - Monitoring for WY25

	2NDNATURE Personnel					Pacific EcoRisk Personnel					
	Principal	Research Director	Senior Scientist III	Senior Scientist I	Science Associate I	Principal/ VP	Project Manager	Scientist II	Scientist I	Laboratory Assistant I	**Labor per Task**
	2N	**2N**	**2N**	**2N**	**2N**	**PE**	**PE**	**PE**	**PE**	**PE**	
Hourly Rate	$275	$240	$220	$175	$145	$258	$216	$187	$170	$73	
Task 2A. Outfall Monitoring and Data Collection											
Task 2A.2. Data Collection											
Task 2A.2.1. Site maintenance and sample preparation	4	12	20	10	160						$ 33,330
Task 2A.2.2. Event sampling at RD513; RD518; RD730; 309U19	4	12	20	40	200						$ 44,380
Task 2A	**8**	**24**	**40**	**50**	**360**	**0**	**0**	**0**	**0**	**0**	**$ 77,710**
Task 2B. Receiving Water Monitoring and Data Collection											
Task 2B.2.1. Perform monthly sampling (Oct - Apr, Jul & Sep) at GAB&NAD						5	10	24	24	10	$ 12,748
Task 2B.2.2. Collect first flush grab samples at 309U19, 309GAB, 309NAD						1	3	10	10	0	$ 4,476
Task 2B	**0**	**0**	**0**	**0**	**0**	**6**	**13**	**34**	**34**	**10**	**$ 17,224**
Task 3A. Outfall Data Management, Analysis, and Event Reporting											
Task 3A.1. Data management and QA/QC	10	10	20	30	40						$ 20,600
Task 3A.2. Analyze data and generate graphics	10	10	20	40	40						$ 22,350
Task 3A.3. Format and upload data per SWAMP and CEDEN requirements			20		30						$ 8,750
Task 3A.4. Event reporting		8	20	20	40						$ 15,620
Task 3A	**20**	**28**	**80**	**90**	**150**	**0**	**0**	**0**	**0**	**0**	**$ 67,320**
Task 3B. Receiving Water Data Management, Analysis, and Event Reporting											
Task 3B.1. Data management and QA/QC						1	2				$ 690
Task 3B.2. Analyze data and generate graphics						1	2				$ 690
Task 3B.3. Format and upload data per SWAMP and CEDEN requirements (field, toxicity, analytical)							2				$ 432
Task 3B	**0**	**0**	**0**	**0**	**0**	**2**	**6**	**0**	**0**	**0**	**$ 1,812**
Task 4. Project Management											
Task 4.1. Project Management	12	5	6	30	6	8	6				$ 15,300
Task 4.2. Regional Meetings and Coordination			4	10		5					$ 3,920
Task 4	**12**	**5**	**10**	**40**	**6**	**13**	**6**	**0**	**0**	**0**	**$ 19,220**
Total hours	40	57	130	180	516	21	25	34	34	10	
Cost per staff	$ 11,000	$ 13,680	$ 28,600	$ 31,500	$ 74,820	$ 5,418	$ 5,400	$ 6,358	$ 5,780	$ 730	

2NDNATURE: $ 159,600 Pacific EcoRisk $ 23,686 Fully burdened labor $ 183,286

Additional expenses

Task 2.A.1 Stage recorders	$ 2,185
Task 2.A.1.3 Raw materials for site security	
Task 2.A.2. 2 Weather Forcasting Service	
Task 2.A.2 Outfall Sampling: Analytical Laboratory Costs	$ 28,000
Task 2.B.2 Receiving Water Sampling: Analytical Laboratory Costs	$ -
Task 2.B.2 Background Receiving Water Sampling: Analytical Laboratory Costs	$ 2,000
Task 2. Miscellanous Equipment	$ 3,583
total expenses	$ 35,768
10% markup expenses	$ 3,577
10% markup subcontractor	$ 2,369
Total Annual Cost	**$ 225,000**

CLEAN WATER SALINAS

FY24/25 MRP Budget

Salinas Stormwater Program

TABLE 2