

APPENDIX A

SAMPLING LOCATION TABLES AND MAPS

2023 RHMP Sampling Locations Summary Table

Table A-1.
2023 RHMP Sampling Locations

Region	Station ID	Target Latitude (dd.dddddd°)	Target Longitude (-ddd.dddddd°)	Actual Latitude (dd.dddddd°)	Actual Longitude (-ddd.dddddd°)	2023 RHMP Stratum	Bight '23 Stratum	Samples to be Collected/Analyzed				Previous Bight Site?
								Water & Sediment Grabs	Sediment CECs	Sediment Microplastics	Trawls	
Dana Point Harbor	B23-12063	33.45860	-117.69359	33.45862	-117.69346	Marina	Marina	X, EB				New Site
Dana Point Harbor	B23-12064	33.46031	-117.70601	33.46011	-117.70584	Deep	Marina	X	X, FB		X	New Site
Dana Point Harbor	B23-12065	33.46041	-117.69569	33.45991	-117.69626	Marina	Marina	X				New Site
Dana Point Harbor	B23-12066	33.46102	-117.70198	33.46118	-117.70192	Marina	Marina	X, FB				New Site
Oceanside Harbor	B23-12059	33.20439	-117.39132	33.20431	-117.39135	Marina	Marina	X				New Site
Oceanside Harbor	B23-12060	33.20825	-117.39664	33.20841	-117.39669	Deep	Marina	X			X	New Site
Oceanside Harbor	B23-12061	33.20946	-117.39531	33.20935	-117.39528	FW-Influenced	Marina	X	X, FB	X		Revisit
Oceanside Harbor	B23-12062	33.21289	-117.39467	33.21292	-117.39507	Marina	Marina	X				New Site
Mission Bay	B23-12022	32.76791	-117.24148	32.76810	-117.24138	Deep	Bay	X	X, FB	X	X	Revisit
Mission Bay	B23-12023	32.78401	-117.24597	32.78414	-117.24591	Shallow	Bay	X	X	X	X	New Site
Mission Bay	B23-12024	32.78448	-117.21536	32.78445	-117.21518	Shallow	Bay	X	X, FB		X	Revisit
Mission Bay	B23-12025	32.78766	-117.20878	32.78766	-117.20945	FW-Influenced	Bay	X				New Site
Mission Bay	B23-12026	32.79462	-117.22083	32.79428	-117.22039	FW-Influenced	Bay	X, FR	X, FB			New Site
Mission Bay	B23-12055	32.76247	-117.23916	32.76255	-117.23923	Deep	Marina	X	X			New Site
Mission Bay	B23-12056	32.76271	-117.23693	32.76323	-117.23684	Marina	Marina	X	X			New Site
Mission Bay	B23-12057	32.76720	-117.23565	32.76724	-117.23567	Marina	Marina	X				Revisit
Mission Bay	B23-12058	32.78071	-117.24928	32.78035	-117.24929	Shallow	Marina	X	X			Revisit
North San Diego Bay	B23-12014	32.69954	-117.23021	32.69926	-117.23017	Deep	Bay	X	X, FB		X	New Site
North San Diego Bay	B23-12019	32.71496	-117.18291	32.71502	-117.18264	Deep	Bay	X	X, FB	X, FB	X	Revisit
North San Diego Bay	B23-12020	32.71522	-117.18987	32.71549	-117.18972	Deep	Bay	X	X		X	New Site
North San Diego Bay	B23-12021	32.72415	-117.18298	32.72447	-117.18291	Deep	Bay	X	X, FB		X	Revisit
North San Diego Bay	B23-12047	32.71154	-117.23255	32.71155	-117.23223	Marina	Marina	X	X, FB			Revisit
North San Diego Bay	B23-12048	32.71600	-117.22843	32.71613	-117.22813	Marina	Marina	X	X, FB			New Site
North San Diego Bay	B23-12049	32.71840	-117.23040	32.71824	-117.23060	Marina	Marina	X	X	X, FB		Revisit
North San Diego Bay	B23-12050	32.71857	-117.22611	32.71846	-117.22635	Marina	Marina	X				Revisit
North San Diego Bay	B23-12051	32.72125	-117.22404	32.72080	-117.22411	Marina	Marina	X	X, FB			New Site
North San Diego Bay	B23-12052	32.72502	-117.18368	32.72546	-117.18384	Shallow	Marina	X	X	X		Revisit
North San Diego Bay	B23-12053	32.72649	-117.20553	32.72701	-117.20546	Marina	Marina	X	X			New Site
North San Diego Bay	B23-12054	32.72840	-117.20553	32.72837	-117.20547	Shallow	Marina	X				New Site
North San Diego Bay	B23-12116	32.69169	-117.23824	32.69177	-117.23840	Deep	Port	X				Revisit
North San Diego Bay	B23-12117	32.69172	-117.15322	32.69158	-117.15312	Deep	Port	X	X			Revisit
North San Diego Bay	B23-12118	32.69268	-117.15055	32.69281	-117.15086	Industrial/Port	Port	X	X			New Site
North San Diego Bay	B23-12119	32.69621	-117.15458	32.69625	-117.15449	Industrial/Port	Port	X	X	X		New Site
North San Diego Bay	B23-12120	32.70240	-117.16178	32.70260	-117.16186	Industrial/Port	Port	X	X, FB	X, FB		Revisit
North San Diego Bay	B23-12121	32.70286	-117.23646	32.70333	-117.23608	Shallow	Port	X, FR				New Site
North San Diego Bay	B23-12122	32.70559	-117.23472	32.70574	-117.23456	Deep	Port	X	X, FB			New Site
North San Diego Bay	B23-12123	32.71609	-117.17395	32.71625	-117.17375	Deep ^a	Port	X	X			Revisit
North San Diego Bay	B23-12124	32.71619	-117.17624	32.71609	-117.17614	Deep	Port	X	X, FB	X		Revisit
North San Diego Bay	B23-12841	32.72363	-117.22712	32.72366	-117.22718	Marina	Marina	X	X			New Site
Central San Diego Bay	B23-12009	32.65834	-117.14422	32.65834	-117.14413	Shallow	Bay	X	X, FB		X	Revisit
Central San Diego Bay	B23-12010	32.66426	-117.14685	32.66464	-117.14694	Shallow	Bay	X, FR	X			New Site
Central San Diego Bay	B23-12011	32.66518	-117.14980	32.66528	-117.14991	Shallow	Bay	X	X	X, FB	X	Revisit
Central San Diego Bay	B23-12012	32.67547	-117.14384	32.67528	-117.14360	Deep	Bay	X	X, FB		X	Revisit
Central San Diego Bay	B23-12089	32.65155	-117.12246	32.65182	-117.12218	Deep	Port	X	X	X, FB		Revisit
Central San Diego Bay	B23-12090	32.65545	-117.12316	32.65551	-117.12335	Industrial/Port	Port	X	X, FB			New Site
Central San Diego Bay	B23-12091	32.65973	-117.12149	32.65988	-117.12129	Industrial/Port	Port	X				New Site
Central San Diego Bay	B23-12093	32.66061	-117.12339	32.66070	-117.12270	Industrial/Port	Port	X				Revisit
Central San Diego Bay	B23-12095	32.66797	-117.12392	32.66796	-117.12382	Industrial/Port	Port	X				New Site
Central San Diego Bay	B23-12096	32.66856	-117.12109	32.66829	-117.12111	Industrial/Port	Port	X				New Site
Central San Diego Bay	B23-12097	32.67135	-117.11896	32.67136	-117.11875	Industrial/Port	Port	X				New Site
Central San Diego Bay	B23-12098	32.67209	-117.12351	32.67209	-117.12336	Industrial/Port	Port	X				New Site
Central San Diego Bay	B23-12099	32.67268	-117.12472	32.67303	-117.12495	Industrial/Port	Port	X				New Site
Central San Diego Bay	B23-12102	32.67385	-117.11585	32.67331	-117.11657	FW-Influenced	Port	X				New Site
Central San Diego Bay	B23-12103	32.67680	-117.12835	32.67696	-117.12854	Industrial/Port	Port	X				New Site
Central San Diego Bay	B23-12107	32.68150	-117.12755	32.68150	-117.12762	Industrial/Port	Port	X				New Site
Central San Diego Bay	B23-12109	32.68535	-117.13664	32.68542	-117.13708	FW-Influenced	Port	X	X, FB	X, FB		New Site
Central San Diego Bay	B23-12110	32.68590	-117.13549	32.68600	-117.13549	FW-Influenced	Port	X				New Site
Central San Diego Bay	B23-12114	32.69032	-117.14328	32.69013	-117.14314	Industrial/Port	Port	X				New Site
Central San Diego Bay	B23-12115	32.69091	-117.14369	32.69133	-117.14439	Industrial/Port	Port	X	X			New Site
Central San Diego Bay	B23-12155	32.68786	-117.13148	32.68787	-117.13174	FW-Influenced	Estuaries	X				New Site
Central San Diego Bay	B23-12819	32.66426	-117.13071	32.66471	-117.13128	Shallow	Bay				X ^b	Overdraw
South San Diego Bay	B23-12000	32.60976	-117.10740	32.60979	-117.10735	Shallow	Bay	X				New Site
South San Diego Bay	B23-12001	32.61372	-117.12371	32.61380	-117.12356	Shallow	Bay	X				New Site
South San Diego Bay	B23-12002	32.61523	-117.12130	32.61518	-117.12140	Shallow	Bay	X	X, EB			New Site
South San Diego Bay	B23-12003	32.62958	-117.12099	32.62993	-117.12096	Shallow	Bay	X				New Site
South San Diego Bay	B23-12004	32.63485	-117.13744	32.63540	-117.13701	Shallow ^c	Bay	X	X, FB		NS ^d	New Site
South San Diego Bay	B23-12005	32.64238	-117.11712	32.64168	-117.11777	FW-Influenced	Bay	X			NS ^b	New Site
South San Diego Bay	B23-12006	32.64573	-117.12248	32.64553	-117.12253	FW-Influenced	Bay	X, FR				New Site
South San Diego Bay	B23-12007	32.64657	-117.12076	32.64665	-117.12075	FW-Influenced	Bay	X	X			New Site
South San Diego Bay	B23-12008	32.64694	-117.11824	32.64694	-117.11825	FW-Influenced	Bay	X	X, FB	X, FB	X	Revisit
South San Diego Bay	B23-12045	32.62348	-117.10478	32.62362	-117.10475	Shallow	Marina	X	X			New Site
South San Diego Bay	B23-12046	32.62360	-117.13346	32.62356	-117.13352	Marina	Marina	X	X	X		Revisit
South San Diego Bay	B23-12148	32.59995	-117.11598	32.59980	-117.11554	FW-Influenced	Estuaries	X	X			New Site
South San Diego Bay	B23-12150	32.61784	-117.09824	32.61779	-117.09905	FW-Influenced	Estuaries	X	X, FB			Revisit
South San Diego Bay	B23-12151	32.64768	-117.11540	32.64770	-117.11543	FW-Influenced	Estuaries	X				New Site
South San Diego Bay	B23-12152	32.64824	-117.11272	32.64823	-117.11291	FW-Influenced	Estuaries	X	X, FB			New Site
South San Diego Bay	B23-12884	32.64601	-117.12344	32.64656	-117.12341	FW-Influenced	Bay				X ^d	Overdraw

Notes:
B23 = Bight '23; CEC = contaminant of emerging concern (includes neonicotinoids, per- and polyfluoroalkyl substances [PFAS], and 6PPD-quinone); dd.dddddd°/ddd.dddddd° = decimal degrees; EB = equipment blank; FB = field blank (note that field blanks for CECs were for PFAS only); FR = field replicate; FW = freshwater; ID = identification; MLLW = mean lower low water; NS = not sampled; RHMP = Regional Harbor Monitoring Program; X = indicates sample was collected and/or analyzed
a. Station B23-12123 was reclassified from the shallow stratum to the deep stratum (station depth: 30 feet MLLW).
b. Trawling could not be conducted at target Station B23-12005 due to depth and safety reasons. This trawl location was replaced with Overdraw Station B23-12819.
c. Station B23-12004 was reclassified from the deep stratum to the shallow stratum (station depth: 3 feet MLLW).
d. Trawling could not be conducted at target Station B23-12004 due to depth and safety reasons. This trawl location was replaced with Overdraw Station B23-12884.

Maps of 2023 RHMP Sampling Locations and Trawl Tracks

Dana Point Harbor



2023 RHMP Actual Sampling Locations

Water and Sediment Station Stratum

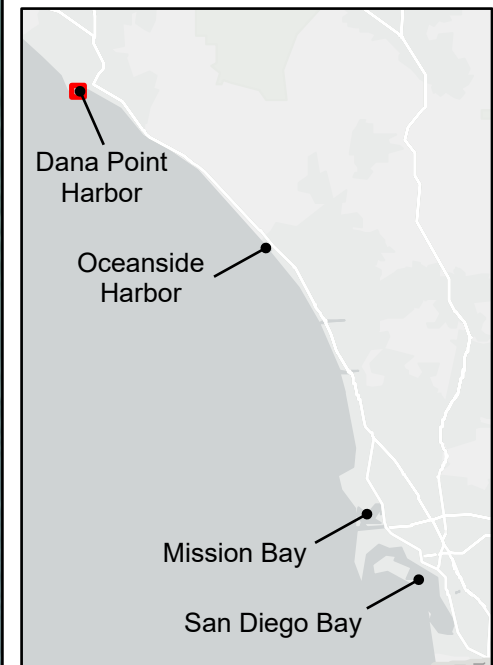
- Deep
- ▲ FW-Influenced
- Industrial/Port
- ✱ Marina
- ◆ Shallow

Trawl Station

- ✕ Target Trawl Station
- Trawl Track



0 0.2 0.4 km



Oceanside Harbor



2023 RHMP Actual Sampling Locations

Water and Sediment Station Stratum

- Deep
- ▲ FW-Influenced
- Industrial/Port
- ✱ Marina
- ◆ Shallow

Trawl Station

- ✱ Target Trawl Station
- Trawl Track



0 0.15 0.3 km



Mission Bay



2023 RHMP Actual Sampling Locations

Water and Sediment Station Stratum

- Deep
- FW-Influenced
- Industrial/Port
- Marina
- Shallow

Trawl Station

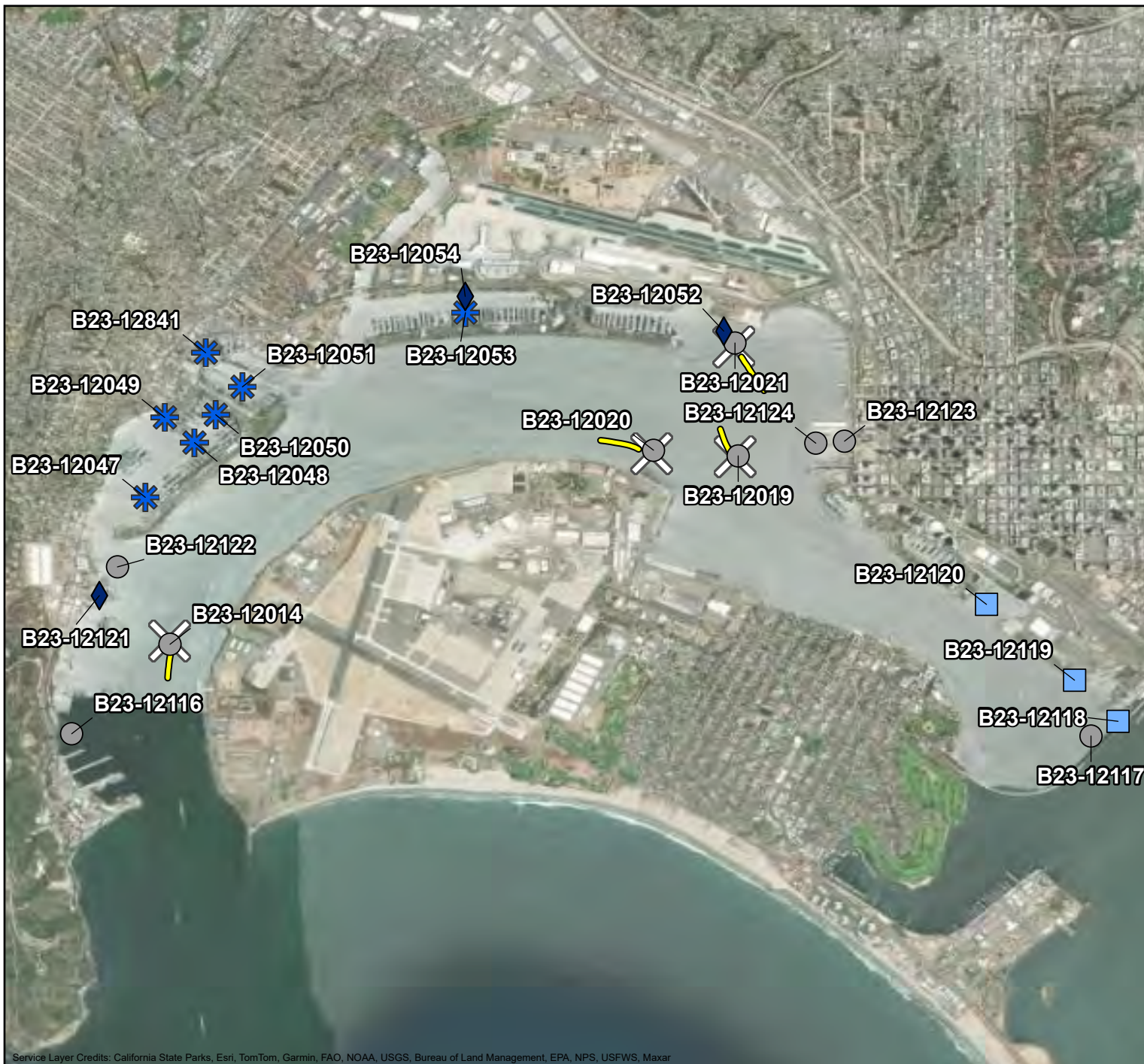
- Target Trawl Station
- Trawl Track



0 0.6 1.2 km



North San Diego Bay



2023 RHMP Actual Sampling Locations

Water and Sediment Station Stratum

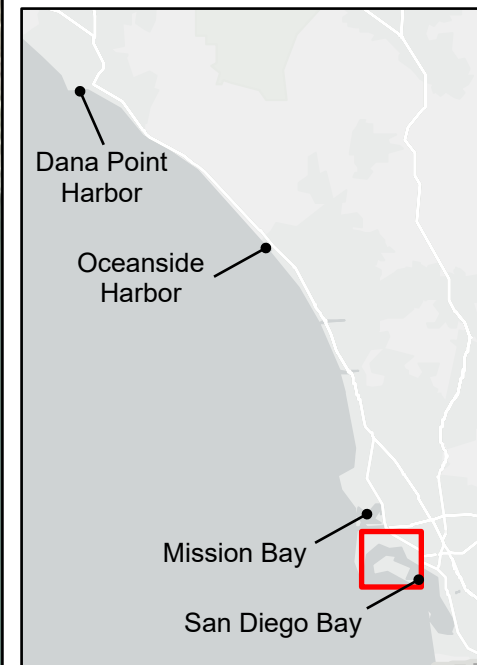
- Deep
- ▲ FW-Influenced
- Industrial/Port
- ✱ Marina
- ◆ Shallow

Trawl Station

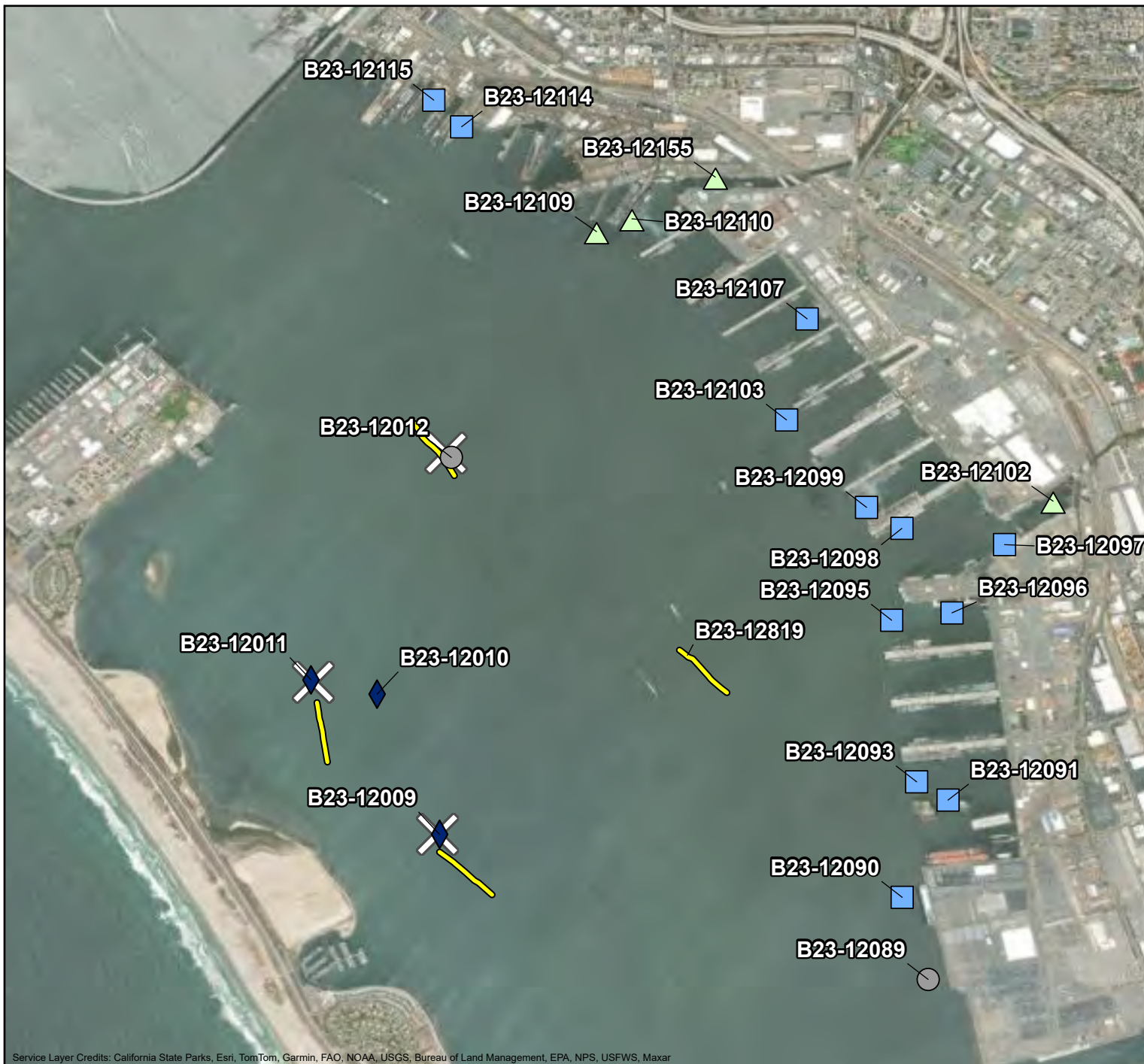
- ✕ Target Trawl Station
- Trawl Track



0 0.95 1.9
km



Central San Diego Bay



2023 RHMP Actual Sampling Locations

Water and Sediment Station Stratum

- Deep
- FW-Influenced
- Industrial/Port
- Marina
- Shallow

Trawl Station

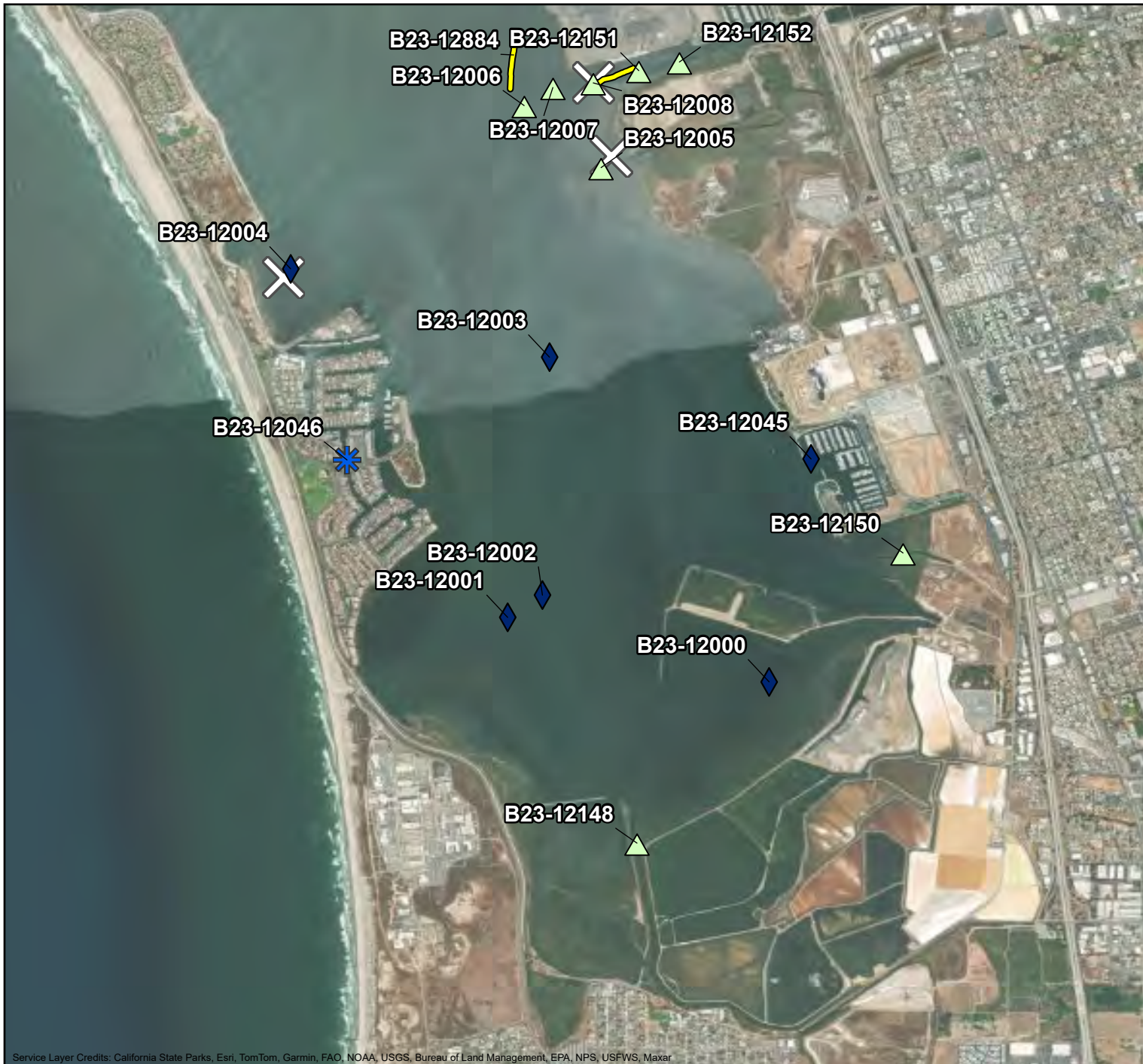
- Target Trawl Station
- Trawl Track



0 0.5 1 km



South San Diego Bay



2023 RHMP Actual Sampling Locations

Water and Sediment Station Stratum

- Deep
- FW-Influenced
- Industrial/Port
- Marina
- Shallow

Trawl Station

- Target Trawl Station
- Trawl Track



0 0.7 1.4 km

