

SUMMARY: results continue to be provided to the City as the VA receives them and results will continue to be released publicly online as they become available.



Matadero Creek Sampling Sites @ VA Hospital Diesel Spill Site

Key

	Original boom containment area		Stormwater outfall
	Amended boom containment area (as of week of 5/31)		Sample locations
			Flow of water

Table 1 (Updated November 10, 2021): Summary of Water Quality Samples within the boom containment area for total petroleum hydrocarbons, total petroleum hydrocarbons-diesel (with silica gel cleanup), and BTEX (benzene, toluene, ethylbenzene and xylenes).

Sample ID	Sample Location	Sample Date	Total Petroleum Hydrocarbons- Diesel	Total Petroleum Hydrocarbons-Diesel (with Silica Gel Cleanup)*	BTEX (benzene, toluene, ethylbenzene and xylenes)
			(all results reported in micrograms per liter [µg/L])		
VA-Creek Outfall	under pipe outfall (near W-014)	05/07/21	65	---	ND
VA-A Creek	upstream of release, past W-016	05/07/21	ND	---	ND
VA-A-1		05/08/21	ND	---	ND
VA-A-2		05/09/21	ND	---	ND
VA-B Creek	downstream of bridge, past W-001	05/07/21	310	---	Xylenes - 2.0
VA-B-1		05/08/21	320	---	ND
VA-B-2		05/09/21	130	---	ND
W-001	downstream of bridge	05/10/21	210	---	ND
		06/01/21	ND	---	ND
		06/04/21	ND	---	ND
		06/10/21	51	---	ND
		06/13/21	ND	---	ND
		06/16/21	100	---	ND
		06/19/21	58	---	ND
		06/22/21	ND	---	ND
		06/25/21	38	---	---
		07/07/21	ND	---	ND
		07/14/21	ND	---	ND
		07/21/21	ND	---	ND
		07/28/21	ND	---	---
		08/04/21	ND	---	ND
		08/11/21	ND	---	---
		08/18/21	ND	---	ND
08/25/21	ND	---	---		
09/01/21	ND	---	ND		
09/08/21	ND	---	---		
09/15/21	ND	---	ND		
W-002	along bridge, downstream side	05/10/21	110	---	ND

06/02/21	ND	---	ND
06/05/21	45	---	ND
06/08/21	52	---	ND
06/11/21	ND	---	ND
06/14/21	ND	---	ND
06/17/21	83	---	ND
06/23/21	45	---	ND
06/28/21	47	---	---
07/09/21	ND	---	ND
07/16/21	ND	---	ND
07/23/21	ND	---	---
07/30/21	ND	---	Toluene - 0.53
08/06/21	50	---	---
08/13/21	ND	---	---
08/20/21	ND	---	---
08/27/21	ND	---	---
09/03/21	ND	---	---
09/10/21	ND	---	---
09/17/21	ND	---	---
05/10/21	140	---	ND
05/18/21	47	---	ND
05/19/21	83	---	ND
05/21/21	1,100	---	ND
05/22/21	55	---	ND
05/23/21	39	---	ND
05/24/21	1,500	---	ND
05/25/21	48	---	ND
05/26/21	ND	---	ND
05/28/21	160	---	ND
05/29/21	43	---	ND
06/03/21	ND	---	ND
06/06/21	ND	---	ND
06/09/21	120	---	ND
06/12/21	ND	---	ND
06/15/21	49	---	ND
06/18/21	81	---	ND

W-003

approximately 10 feet downstream of last boom

		06/30/21	ND	---	---
		07/12/21	ND	---	ND
		07/19/21	ND	---	ND
		07/27/21	ND	---	ND
		08/02/21	ND	---	---
		08/09/21	ND	---	---
		08/16/21	ND	---	---
		08/23/21	62	---	---
		08/30/21	ND	---	---
		09/07/21	61	---	---
		09/13/21	ND	---	---
W-004	between 3rd and 4th boom going upstream	05/10/21	2,600	---	ND
		05/19/21	2,700	---	ND
		05/23/21	920	---	ND
		05/26/21	2,400	---	ND
		05/29/21	480	---	ND
		06/02/21	55	---	ND
		06/05/21	99	---	ND
		06/09/21	63	---	ND
		06/13/21	67	---	ND
		06/16/21	4,800	6,000	ND
		06/19/21	12,000	10,000	ND
		06/25/21	2,000	1,600	ND
		07/07/21	200	---	ND
		07/14/21	120	---	ND
		07/19/21	310	---	ND
		07/28/21	51	---	---
		08/04/21	49	---	ND
		08/11/21	ND	---	---
		08/18/21	76	---	ND
		08/25/21	ND	---	---
		08/30/21	ND	---	---
		09/08/21	73	---	---
		09/15/21	ND	---	ND
09/20/21	750	---	---		
		10/01/21	85	---	---

		10/08/21	94	---	---
		10/13/21	110	---	---
		10/19/21	840	---	---
		10/23/21	180	---	---
		10/30/21	ND	---	---
W-005	between 5th and 6th boom going upstream	05/10/21	2,900	---	ND
		05/24/21	860	---	ND
		06/04/21	570	---	ND
		06/08/21	140	---	ND
		06/10/21	92	---	ND
		06/12/21	39	---	ND
		06/13/21	66	---	ND
		06/15/21	59	---	ND
		06/18/21	150	---	ND
		06/22/21	200	---	ND
		06/25/21	230	---	---
		06/30/21	68	---	---
		07/12/21	230	---	ND
		07/16/21	54	---	ND
		07/27/21	ND	---	ND
		07/28/21	ND	---	ND
		08/02/21	700	---	---
		08/09/21	950	PENDING	---
		08/11/21	ND	---	---
		08/16/21	ND	---	---
		08/23/21	ND	---	---
		08/27/21	39	---	---
		09/01/21	ND	---	ND
		09/07/21	45	---	---
		09/08/21	ND	---	---
		09/13/21	ND	---	---
09/17/21	ND	---	---		
09/24/21	42	---	---		
10/15/21	ND	---	ND		
11/03/21	43	---	---		
W-006	between 6th and 7th boom going upstream	05/10/21	5,200	---	ND

		05/21/21	3,200	---	ND
		05/26/21	7,700	---	ND
		06/03/21	5,700	4,800	ND
		06/09/21	16,000	3,500	ND
		06/11/21	410	---	ND
		06/14/21	1,500	1,400	ND
		06/16/21	660	---	ND
		06/17/21	1,000	---	ND
		06/19/21	340	---	ND
		06/23/21	3,200	---	ND
		06/28/21	4,000	3,600	---
		07/07/21	2,600	2,600	ND
		07/09/21	1,300	---	ND
		07/14/21	250	---	ND
		07/19/21	1,400	---	ND
		07/23/21	79	---	---
		07/30/21	490	---	ND
		08/04/21	370	---	ND
		08/06/21	270	---	---
		08/13/21	310	---	---
		08/18/21	310	---	ND
		08/20/21	400	---	---
		08/25/21	150	---	---
		08/30/21	180	---	---
		09/03/21	350	---	---
		09/10/21	90	---	---
		09/15/21	440	---	ND
		09/28/21	120	---	---
		10/08/21	520	---	---
		10/27/21	360	---	---
		11/06/21	50	---	---
W-007	between 7th and 8th boom going upstream	05/10/21	190,000	---	ND
		05/18/21	6,500	---	ND
		05/28/21	2,700	---	ND
		06/01/21	1,800	---	ND
		06/06/21	6,500	7,900	ND

06/10/21	15,000	13,000	ND
06/11/21	57	---	ND
06/13/21	74	---	ND
06/15/21	5,700	5,400	ND
06/17/21	8,400	8,500	ND
06/19/21	47*	---	ND
06/22/21	8,000	7,600	ND
06/23/21	11,000	---	ND
06/25/21	8,800	7,700	---
06/30/21	6,600	7,500	---
07/07/21	2,800	2,900	ND
07/09/21	800	---	ND
07/14/21	1,500	1,800	ND
07/21/21	2,200	---	ND
07/23/21	680	---	---
08/02/21	2,500	2,600	---
08/06/21	790	---	---
08/11/21	3,300	3,100	---
08/16/21	ND	---	---
08/18/21	3,700	3,100	ND
08/20/21	820	---	---
08/23/21	1,100	---	---
08/25/21	390	---	---
09/01/21	980	---	ND
09/13/21	450	---	ND
09/17/21	380	---	---
09/20/21	620	---	---
09/24/21	260	---	---
09/28/21	420	---	---
10/01/21	330	---	---
10/13/21	70	---	---
10/15/21	210	---	ND
10/19/21	280	---	---
10/23/21	110	---	---
10/27/21	52	---	---
10/30/21	ND	---	---

		11/03/21	ND	---	---
		11/06/21	ND	---	---
W-008	in shallow divided part of creek	05/10/21	2,400	---	ND
		05/22/21	1,500	---	ND
		05/25/21	ND	---	ND
		06/04/21	63	---	ND
		06/08/21	180	---	ND
		06/09/21	53	---	ND
		06/12/21	55	---	ND
		06/14/21	82	---	ND
		06/16/21	ND	---	ND
		06/18/21	470	---	ND
		06/28/21	74	---	---
		07/07/21	ND	---	ND
		07/12/21	160	---	ND
		07/16/21	120	---	ND
		07/19/21	140	---	ND
		07/27/21	530	---	ND
		07/30/21	4,400	5,100	ND
		08/04/21	ND	---	ND
		08/09/21	320	---	---
		08/13/21	290	---	---
		08/18/21	ND	---	ND
		08/27/21	190	---	---
		08/30/21	ND	---	---
		09/03/21	ND	---	---
		09/07/21	170	---	---
		09/10/21	ND	---	---
		09/15/21	ND	---	ND
		09/20/21	ND	---	---
		10/13/21	50	---	---
		10/19/21	1,700	---	---
10/23/21	210	---	---		
10/30/21	45	---	---		
W-009	downstream of foot bridge	05/10/21	120	---	ND
		05/18/21	ND	---	ND

		05/23/21	1,100	---	ND
		05/28/21	150	---	ND
		06/01/21	ND	---	ND
		06/05/21	180	---	ND
		06/06/21	500	---	ND
		06/10/21	160	---	ND
		06/13/21	41	---	ND
		06/17/21	ND	---	ND
		06/22/21	ND	---	ND
		06/25/21	95	---	---
		06/30/21	ND	---	---
		07/09/21	ND	---	ND
		07/16/21	60	---	ND
		7/28/21	ND	---	---
		08/04/21	ND	---	ND
		08/06/21	310	---	---
		08/11/21	91	---	---
		08/16/21	65	---	---
		08/20/21	ND	---	---
		08/27/21	ND	---	---
		09/08/21	260	---	---
		09/15/21	73	---	ND
		09/24/21	57	---	---
		10/01/21	65	---	---
		10/15/21	ND	---	ND
		10/23/21	110	---	---
		11/03/21	ND	---	---
W-010	just upstream of foot bridge	05/10/21	84	---	ND
		05/21/21	45	---	ND
		05/24/21	190	---	ND
		06/03/21	ND	---	ND
		06/11/21	ND	---	ND
		06/17/21	130	---	ND
		06/23/21	ND	---	ND
		06/28/21	ND	---	---
		7/9/21	ND	---	ND

		07/21/21	ND	---	ND
		07/23/21	ND	---	---
		07/30/21	ND	---	ND
		08/06/21	ND	---	---
		08/13/21	ND	---	---
		08/20/21	ND	---	---
		09/01/21	ND	---	ND
		09/03/21	ND	---	---
		09/10/21	93	---	---
		9/17/21	ND	---	---
W-011	between foot bridge and outfall pipe	05/10/21	100	---	ND
		05/19/21	63	---	ND
		05/22/21	46	---	ND
		05/23/21	39	---	ND
		05/25/21	1,500	---	ND
		05/29/21	670	---	ND
		06/02/21	96	---	ND
		06/05/21	ND	---	ND
		06/08/21	89	---	ND
		06/12/21	71	---	ND
		06/15/21	890	---	ND
		06/30/21	84	---	ND
		7/12/21	82	---	ND
		07/21/21	68	---	ND
		07/27/21	ND	---	ND
		08/02/21	70	---	---
		08/09/21	ND	---	---
		08/16/21	ND	---	---
		08/23/21	220	---	---
		09/01/21	ND	---	ND
		09/07/21	ND	---	---
		09/13/21	43	---	---
		09/28/21	ND	---	---
		10/08/21	ND	---	---
		10/27/21	38	---	---
11/06/21	ND	---	---		

W-012	between foot bridge and outfall pipe	05/11/21	3,400	---	ND
		05/18/21	560	---	ND
		05/26/21	ND	---	ND
		06/01/21	ND	---	ND
		06/09/21	270	---	ND
		06/14/21	410	---	ND
		06/18/21	210	---	ND
		06/28/21	520	---	---
		07/12/21	95	---	ND
		07/16/21	880	PENDING	ND
		7/28/21	ND	---	---
		07/30/21	120	---	ND
		08/13/21	46	---	---
		08/27/21	89	---	---
		09/03/21	ND	---	---
		09/08/21	ND	---	---
		09/10/21	86	---	---
		09/17/21	ND	---	---
		09/20/21	66	---	---
		10/13/21	48	---	---
10/19/21	290	---	---		
10/30/21	48	---	---		
W-013	between foot bridge and outfall pipe	05/11/21	2,400	---	ND
		05/21/21	970	---	ND
		05/24/21	150	---	ND
		06/03/21	71	57	ND
		06/11/21	84	---	ND
		06/15/21	72	---	ND
		06/19/21	130	---	ND
		06/23/21	ND	---	ND
		07/19/21	2,100	PENDING	ND
		7/23/21	ND	---	---
		08/02/21	ND	---	---
		08/09/21	ND	---	---
		08/20/21	ND	---	---
		08/23/21	ND	---	---

		08/30/21	99	---	---
		09/24/21	ND	---	---
		10/01/21	ND	---	---
		10/15/21	ND	---	ND
		11/03/21	44	---	---
W-014	by outfall pipe	05/11/21	ND	---	ND
		05/19/21	ND	---	ND
		05/28/21	ND	---	ND
		05/29/21	ND	---	ND
		06/02/21	ND	---	ND
		06/06/21	ND	---	ND
		06/10/21	42	---	ND
		06/12/21	ND	---	ND
		06/16/21	45	---	ND
		06/22/21	120	---	ND
		07/07/21	51	---	ND
		07/09/21	ND	---	ND
		07/14/21	ND	---	ND
		07/21/21	85	---	ND
		07/27/21	ND	---	ND
		07/28/21	ND	---	---
		08/04/21	ND	---	ND
		08/06/21	ND	---	---
		08/09/21	41	---	---
		08/18/21	ND	---	ND
		09/01/21	80	---	ND
		09/07/21	ND	---	---
		09/08/21	ND	---	---
		09/13/21	130	---	---
09/17/21	ND	---	---		
W-015	upstream of outfall pipe	05/11/21	36,000	---	ND
		05/22/21	150	---	ND
		05/25/21	38	---	ND
		06/04/21	ND	---	ND
		06/08/21	ND	---	ND
		06/14/21	49	---	ND

		06/18/21	ND	---	ND
		06/28/21	190	---	---
		07/14/21	110	---	ND
		07/19/21	130	---	ND
		07/27/21	40	---	ND
		7/30/21	84	---	ND
		08/13/21	50	---	---
		08/25/21	56	---	---
		08/30/21	50	---	---
		09/03/21	45	---	---
		09/07/21	75	---	---
		09/10/21	ND	---	---
		09/15/21	ND	---	ND
		09/28/21	83	---	---
		10/08/21	ND	---	---
		10/27/21	ND	---	---
		11/06/21	ND	---	---
W-016	between two upstream booms	05/11/21	ND	---	ND
		05/18/21	ND	---	ND
		05/19/21	ND	---	ND
		05/21/21	39	---	ND
		05/22/21	ND	---	ND
		05/23/21	ND	---	ND
		05/24/21	ND	---	ND
		05/25/21	ND	---	ND
		05/26/21	ND	---	ND
		05/28/21	ND	---	ND
		05/29/21	ND	---	ND
		06/01/21	ND	---	ND
		06/02/21	ND	---	ND
		06/03/21	ND	---	ND
		06/04/21	ND	---	ND
		06/05/21	93	---	ND
		06/06/21	ND	---	ND
06/08/21	ND	---	ND		

	06/09/21	ND	---	ND
	06/10/21	ND	---	ND
	06/11/21	ND	---	ND
	06/12/21	ND	---	ND
	06/13/21	70	---	ND
	06/14/21	ND	---	ND
	06/15/21	ND	---	ND
	06/16/21	ND	---	ND
	06/17/21	ND	---	ND
	06/18/21	ND	---	ND
	06/19/21	ND	---	ND
	06/22/21	ND	---	ND
	06/23/21	ND	---	ND
	06/25/21	ND	---	---
	06/30/21	ND	---	---
	07/12/21	ND	---	ND
	07/16/21	46	---	ND
	07/23/21	ND	---	---
	08/02/21	ND	---	---
	08/11/21	ND	---	---
	08/16/21	ND	---	---
	08/23/21	ND	---	---
	08/25/21	ND	---	---
	08/27/21	ND	---	---
	09/13/21	ND	---	---
San Francisco RWQCB Water Habitat Goals (Freshwater - Table GW-2 Aquatic Habitat Screening Levels), 2019, Revision 2		640	640	46 - 290

NL= No Limit; ND = Non Detect; *sample analytical results are still DRAFT from laboratory pending QA/QC

**Fish and Wildlife suggested in our earlier meeting that these high values may be coming from the degradation of natural organic matters in the creek and suggested doing the silica gel cleanup. However results from sample with the silica gel cleanup showed that the TPH concentration remains high after treatment, suggesting that there are high concentrations of diesel TPH in the creek water.

Table 2 (Updated November 10, 2021): Summary of Water Quality Samples collected for Polycyclic Aromatic Hydrocarbons (PAHs)

Sample ID	Sample Location	Sample Date	Polycyclic Aromatic Hydrocarbons (PAHs)
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		07/12/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		07/16/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
San Francisco RWQCB Water Habitat Goals (Freshwater - Table GW-2 Aquatic Habitat Screening Levels), 2019, Revision 2			0.73	0.014	0.10	NL	0.025	8.0	3.9	0.049	NL	2.1	0.24	6.3	2.0	Various

NL= No Limit; ND = Non Detect; *sample analytical results are still DRAFT from laboratory pending QA/QC