SUMMARY: Samples were collected immediately after the spill upstream as a control (point of reference) location (W-016) and downstream of the boom containment area (W-003). Since the release of the data, two more booms were installed upstream of W-003 and upstream of W-002, since it appears that some of the contaminants may be making their way through the containment zone, as indicated in the W-003. In addition, samples were collected within the boom containment area and as anticipated with a diesel spill, the values of Total Petroleum Hydrocarbons-Diesel remain above the water quality habitat goals of 640 micrograms per liter in one location. California Department of Fish and Wildlife anticipates that the diesel will naturally attenuate over a timeframe of months; therefore, other clean up alternatives are currently being explored. With the movement of the creek, the booms in place to absorb any remaining fuel products, and the natural degradation of fuel, VA third party experts expect the values to continue on a downward trend. Sampling results have been 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



Table 1 (Updated September 15, 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 Petroluem Hydrocarbons- Diesel	Total Petroluem Hydrocarbons-Diesel (with Silica Gel Cleanup)*	BTEX (benzene, toluene, ethylbenzene and xylenes)
			(all results re	ported in micrograms pe	r liter [μg/L])
VA-Creek Outfall	under pipe outfall (near W-014)	05/07/21	65		ND
VA-A Creek		05/07/21	ND		ND
VA-A-1	upstream of release, past W-016	05/08/21	ND		ND
VA-A-2		05/09/21	ND		ND
VA-B Creek		05/07/21	310		Xylenes - 2.0
VA-B-1	downstream of bridge, past W-001	05/08/21	320		ND
VA-B-2		05/09/21	130		ND
		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
W-001	downstroom of bridge	06/25/21	38		
VV-001	downstream of bridge	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
		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
W-002	along bridge, downstream side	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
W 003	approximately 10 feet decomptress of last has	05/24/21	1,500	 ND
W-003	approximately 10 feet downstream of last boom	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
		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		
		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
W-004	between 3rd and 4th boom going upstream	06/19/21	12,000	10,000	ND
VV-004	between sid and 4th boom going upstream	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		
		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
W-005	between 5th and 6th boom going upstream	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		
		05/10/21	5,200		ND
W-006	between 6th and 7th boom going upstream	05/21/21	3,200		ND
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		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		
		05/10/21	190,000		ND
		05/18/21	6,500		ND
		05/28/21	2,700		ND
		06/01/21	1,800		ND
W-007	between 7th and 8th boom going upstream	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

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		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		
		05/10/21	2,400		ND
		05/22/21	1,500		ND
		05/25/21	ND		ND
		06/04/21	63		ND
W-008	in shallow divided part of creek	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		
		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
W-009	downstream of foot bridge	06/10/21	160		ND
VV-UUS	downstream of foot bridge	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	 
		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
W-010	just upstream of foot bridge	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	 
		05/10/21	100	 ND
		05/19/21	63	 ND
		05/22/21	46	 ND
W-011	between foot bridge and outfall pipe	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		
		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
W-012	between foot bridge and outfall pipe	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		
				1	

		10/13/21	48		
		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
W-013	between foot bridge and outfall pipe	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		
		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
VA / 04 4	h., autfall aire	06/16/21	45		ND
W-014	by outfall pipe	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	 
		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
W-015	upstream of outfall pipe	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	 
		05/11/21	ND	 ND
		05/18/21	ND	 ND
		05/19/21	ND	 ND
W-016	between two upstream booms	05/21/21	39	 ND
		05/22/21	ND	 ND
		05/23/21	ND	 ND
		05/24/21	ND	ND
		03/24/21	ואט	 ND

1	l		1
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		
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		08/27/21	ND		
		09/13/21	ND		
San Franci	sco RWQCB Water Habitat Goals (Freshwater - Table G Screening Leve	W-2 Aquatic Habitat els), 2019, Revision 2	640	640	46 - 290

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

Table 2 (Updated August 24, 2021): Summary of Water Quality Samples collected for Polycyclic Aromatic Hydrocarbons (PAHs)

							P	olycyclic A	Aromatic Hy	drocarbon	s (PAHs)					
Sample ID	Sample Location	Sample Date	Anthracene	Benzo(a)pyrene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Dibenzo(a,h) anthracene	Flouranthene	Fluorene	Indeno (1,2,3-cd) pyrene	1-Methyl- naphthalene	2-Methyl- naphthalene	Naphthalene	Phenanthrene	Pyrene	Other PAHs
							(all re	sults repo	rted in micr	ograms pe	r liter [μg/l	L])				
VA-Creek Outfall	under pipe outfall (near W-014)	05/07/21	ND	ND	ND	ND	ND	ND	ND	ND	0.083	0.16	0.13	ND	ND	ND
VA-A Creek		05/07/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VA-A-1	upstream of release, past W-016	05/08/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VA-A-2		05/09/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VA-B Creek		05/07/21	ND	ND	ND	ND	ND	ND	0.058	ND	0.59	1.1	0.66	ND	ND	ND
VA-B-1	downstream of bridge, past W-001	05/08/21	ND	ND	ND	ND	ND	ND	ND	ND	0.10	0.19	ND	ND	ND	ND
VA-B-2		05/09/21	ND	ND	ND	ND	ND	ND	ND	ND	0.064	ND	ND	ND	ND	ND
		05/10/21	ND	ND	ND	ND	ND	ND	0.018	ND	0.15	0.26	0.12	ND	ND	ND
		06/01/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/04/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/10/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/13/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-001	downstream of bridge	06/16/21	ND	3.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/19/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/22/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		07/07/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		07/14/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		07/21/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

<sup>\*\*</sup>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.

п	ı															
		08/04/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		08/18/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		09/01/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		05/10/21	ND	ND	ND	ND	ND	ND	ND	ND	0.083	0.14	ND	ND	ND	ND
		06/02/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/05/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/08/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/11/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-002	along bridge, downstream side	06/14/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/17/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/23/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		07/09/21	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
		7/30/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		05/10/21	ND	ND	ND	ND	ND	ND	ND	ND	0.12	0.21	ND	ND	ND	ND
		05/18/21	ND	0.017	ND	0.023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		05/19/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		05/21/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		05/22/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		05/23/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		05/24/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		05/25/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		05/26/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W 002	approximately 10 fact downstroom of last beam	05/28/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-003	approximately 10 feet downstream of last boom	05/29/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/03/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/06/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/09/21	ND	0.016	0.045	ND	0.044	ND	ND	0.046	ND	ND	ND	ND	ND	ND
		06/12/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/15/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/18/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		07/12/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		07/19/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		07/27/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

		05/10/21	ND	ND	ND	ND	ND	ND	ND	ND	0.15	0.27	ND	ND	ND	ND
		05/19/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		05/23/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		05/26/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		05/29/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/02/21	ND	ND	ND	ND	ND	0.077	ND	0.065	ND	ND	ND	ND	ND	ND
		06/05/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/09/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-004	between 3rd and 4th boom going upstream	06/13/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/16/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/19/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		07/07/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		07/14/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		07/19/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		08/04/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		08/18/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		09/15/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		05/10/21	ND	ND	ND	ND	ND	ND	ND	ND	0.18	0.30	ND	ND	ND	ND
		05/24/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/04/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/08/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/10/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/12/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/13/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-005	between 5th and 6th boom going upstream	06/15/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/18/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/22/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		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
		07/21/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		07/27/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		09/01/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-006	between 6th and 7th boom going upstream	05/10/21	ND	ND	ND	ND	ND	ND	ND	ND	0.14	0.25	ND	ND	ND	ND
	Services, our and yet boom going appareum	05/21/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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	05/26/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.14	ND
	06/09/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/11/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/14/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/16/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/17/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/19/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/23/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/07/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/09/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/14/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/19/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/30/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/04/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/18/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/15/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/10/21	0.15	ND	1.2	2.2	ND	0.84	0.39	ND						
	05/18/21	ND	ND	ND	ND	ND	ND	ND	ND	0.28	0.47	ND	ND	0.38	ND
	05/28/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/01/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/06/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/10/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/11/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/13/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-007 between 7th and 8th boom going upstream	06/15/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/17/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/19/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/22/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.083	ND
	06/23/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/07/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/09/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/14/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/21/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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C5/10/21   NO			08/18/21	ND	ND	ND	ND	ND	ND	ND	ND						
0.5/22/21   NO			09/01/21	ND	ND	ND	ND	ND	ND	ND	ND						
100   100			05/10/21	ND	ND	ND	ND	ND	ND	0.036	ND	0.17	0.32	ND	ND	0.040	ND
No.			05/22/21	ND	ND	ND	ND	ND	ND	ND	ND						
660821   No   No   No   No   No   No   No   N			05/25/21	ND	ND	ND	ND	ND	ND	ND	ND						
March   Marc			06/04/21	ND	ND	ND	ND	ND	ND	ND	ND						
M-08    M-06    M-12    M-12			06/08/21	ND	ND	ND	ND	ND	ND	ND	ND						
No.			06/09/21	ND	ND	ND	ND	ND	ND	ND	ND						
No.			06/12/21	ND	ND	ND	ND	ND	ND	ND	ND						
NY-008 W-008			06/14/21	ND	ND	ND	ND	ND	ND	ND	ND						
07/07/21   ND   ND   ND   ND   ND   ND   ND   N			06/16/21	ND	ND	ND	ND	ND	ND	ND	ND						
07/12/21   ND   ND   ND   ND   ND   ND   ND   N	W-008	in shallow divided part of creek	06/18/21	ND	ND	ND	ND	ND	ND	ND	ND						
07/16/21   ND   ND   ND   ND   ND   ND   ND   N			07/07/21	ND	ND	ND	ND	ND	ND	ND	ND						
07/19/21   ND   ND   ND   ND   ND   ND   ND   N			07/12/21	ND	ND	ND	ND	ND	ND	ND	ND						
No			07/16/21	ND	ND	ND	ND	ND	ND	ND	ND						
107/30/21   ND   ND   ND   ND   ND   ND   ND   N			07/19/21	ND	ND	ND	ND	ND	ND	ND	ND						
08/04/21 ND			07/27/21	ND	ND	ND	ND	ND	ND	ND	ND						
08/18/21   ND   ND   ND   ND   ND   ND   ND   N			07/30/21	ND	ND	ND	ND	ND	ND	ND	ND						
Mode			08/04/21	ND	ND	ND	ND	ND	ND	ND	ND						
ND   ND   ND   ND   ND   ND   ND   ND			08/18/21	ND	ND	ND	ND	ND	ND	ND	ND						
W-009   downstream of foot bridge			09/15/21	ND	ND	ND	ND	ND	ND	ND	ND						
W-009  W-			05/10/21	ND	ND	ND	ND	ND	ND	ND	ND						
W-009  downstream of foot bridge    O5/28/21   ND   ND   ND   ND   ND   ND   ND   N			05/18/21	ND	ND	ND	ND	ND	ND	ND	ND						
W-009 downstream of foot bridge			05/23/21	ND	ND	ND	ND	ND	ND	ND	ND						
W-009 downstream of foot bridge			05/28/21	ND	ND	ND	ND	ND	ND	ND	ND						
W-009 downstream of foot bridge			06/01/21	ND	ND	ND	ND	ND	ND	ND	ND						
06/10/21 ND			06/05/21	ND	ND	ND	ND	ND	ND	ND	ND						
06/13/21         ND         <	W-009	downstream of foot bridge	06/06/21	ND	ND	ND	ND	ND	ND	ND	ND						
06/17/21         ND         <			06/10/21	ND	ND	ND	ND	ND	ND	ND	ND						
06/22/21         ND         <			06/13/21	ND	ND	ND	ND	ND	ND	ND	ND						
07/09/21 ND			06/17/21	ND	ND	ND	ND	ND	ND	ND	ND						
			06/22/21	ND	ND	ND	ND	ND	ND	ND	ND						
07/16/21 ND			07/09/21	ND	ND	ND	ND	ND	ND	ND	ND						
			07/16/21	ND	ND	ND	ND	ND	ND	ND	ND						

		00/04/24	ND	ND	ND	NID	NID	NID	ND	ND	ND	ND	ND	NID	ND	
		08/04/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		09/15/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		05/10/21	ND	ND	ND	ND	ND	ND	ND	ND	0.040	0.071	ND	ND	ND	ND
		05/21/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		05/24/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/03/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/11/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-010	just upstream of foot bridge	06/17/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/23/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		07/09/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		07/21/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		07/30/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		09/01/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		05/10/21	ND	ND	ND	ND	ND	ND	ND	ND	0.028	ND	ND	ND	ND	ND
		05/19/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		05/22/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		05/23/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		05/25/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		05/29/21	ND	ND	ND	ND	ND	0.21	ND	ND	ND	ND	ND	ND	ND	ND
		06/02/21	ND	ND	ND	ND	ND	0.19	ND	0.16	ND	ND	ND	ND	ND	ND
W-011	between foot bridge and outfall pipe	06/05/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/08/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/12/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/15/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		07/12/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		07/21/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		07/27/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		09/01/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		05/11/21	ND	ND	ND	ND	ND	ND	ND	ND	0.028	0.041	ND	ND	0.045	ND
		05/18/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		05/26/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-012	between foot bridge and outfall pipe	06/01/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/09/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/14/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
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		06/18/21	ND	ND	ND	ND	ND	ND								
		07/12/21	ND	ND	ND	ND	ND	ND								
		07/16/21	ND	ND	ND	ND	ND	ND								
		07/30/21	ND	ND	ND	ND	ND	ND								
		05/11/21	ND	0.013	0.023	ND	ND	ND	ND							
		05/21/21	ND	ND	ND	ND	ND	ND								
		05/24/21	ND	ND	ND	ND	ND	ND								
		06/03/21	ND	ND	ND	ND	ND	ND								
W-013	between foot bridge and outfall pipe	06/11/21	ND	ND	ND	ND	ND	ND								
		06/15/21	ND	ND	ND	ND	ND	ND								
		06/19/21	ND	ND	ND	ND	ND	ND								
		06/23/21	ND	ND	ND	ND	ND	ND								
		07/19/21	ND	ND	ND	ND	ND	ND								
		05/11/21	ND	ND	ND	ND	ND	ND								
		05/19/21	ND	ND	ND	ND	ND	ND								
		05/28/21	ND	ND	ND	ND	ND	ND								
		05/29/21	ND	ND	ND	ND	ND	ND								
		06/02/21	ND	ND	ND	ND	ND	ND								
		06/06/21	ND	ND	ND	ND	ND	ND								
		06/10/21	ND	ND	ND	ND	ND	ND								
		06/12/21	ND	ND	ND	ND	ND	ND								
		06/16/21	ND	ND	ND	ND	ND	ND								
W-014	by outfall pipe	06/22/21	ND	ND	ND	ND	ND	ND								
		07/07/21	ND	ND	ND	ND	ND	ND								
		07/09/21	ND	ND	ND	ND	ND	ND								
		07/14/21	ND	ND	ND	ND	ND	ND								
		07/21/21	ND	ND	ND	ND	ND	ND								
		07/27/21	ND	ND	ND	ND	ND	ND								
		08/04/21	ND	ND	ND	ND	ND	ND								
		08/18/21	ND	ND	ND	ND	ND	ND								
		09/01/21	ND	ND	ND	ND	ND	ND								
		05/11/21	ND	0.44	0.83	ND	ND	ND	ND							
W-015	upstream of outfall pipe	05/22/21	ND	ND	ND	ND	ND	ND								
		05/25/21	ND	ND	ND	ND	ND	ND								
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Depth/971   NP)		=														
68/14/21		06/04/21	ND	ND	ND	ND	ND	ND								
06/18/21		06/08/21	ND	ND	ND	ND	ND	ND								
07/14/71   MD   MD   MD   MD   MD   MD   MD   M		06/14/21	ND	ND	ND	ND	ND	ND								
07/19/21   ND   NO   NO   ND   ND   ND   ND   ND		06/18/21	ND	ND	ND	ND	ND	ND								
07/27/21   ND		07/14/21	ND	ND	ND	ND	ND	ND								
107/30/21   ND   ND   ND   ND   ND   ND   ND   N		07/19/21	ND	ND	ND	ND	ND	ND								
09/15/21   ND		07/27/21	ND	ND	ND	ND	ND	ND								
M-015    M-0   M		07/30/21	ND	ND	ND	ND	ND	ND								
## 05/18/21   NID   NID		09/15/21	ND	ND	ND	ND	ND	ND								
Definition   Def		05/11/21	ND	ND	ND	ND	ND	ND								
## O5/21/21   ND   ND   ND   ND   ND   ND   ND   N		05/18/21	ND	ND	ND	ND	ND	ND								
No.		05/19/21	ND	ND	ND	ND	ND	ND								
05/23/21   ND   ND   ND   ND   ND   ND   ND   N		05/21/21	ND	ND	ND	ND	ND	ND								
## 05/24/21   ND   ND   ND   ND   ND   ND   ND   N		05/22/21	ND	ND	ND	ND	ND	ND								
W-016   Detween two upstream booms		05/23/21	ND	ND	ND	ND	ND	ND								
05/26/21   ND   ND   ND   ND   ND   ND   ND   N		05/24/21	ND	ND	ND	ND	ND	ND								
W-016   W-01		05/25/21	ND	ND	ND	ND	ND	ND								
W-016    Detween two upstream booms		05/26/21	ND	ND	ND	ND	ND	ND								
W-016 between two upstream booms  06/01/21 ND		05/28/21	ND	0.099	0.33	0.26	ND	ND	ND							
W-016     Detween two upstream booms     D6/02/21   ND   ND   ND   ND   ND   ND   ND   N		05/29/21	ND	ND	ND	ND	ND	ND								
06/03/21 ND		06/01/21	ND	ND	ND	ND	ND	ND								
06/04/21         ND         <	W-016 between two upstream booms	06/02/21	ND	ND	ND	ND	ND	ND								
06/05/21 ND		06/03/21	ND	ND	ND	ND	ND	ND								
06/06/21 ND		06/04/21	ND	ND	ND	ND	ND	ND								
06/08/21 ND		06/05/21	ND	ND	ND	ND	ND	ND								
06/09/21 ND		06/06/21	ND	ND	ND	ND	ND	ND								
06/10/21 ND		06/08/21	ND	ND	ND	ND	ND	ND								
06/11/21 ND		06/09/21	ND	ND	ND	ND	ND	ND								
06/12/21 ND		06/10/21	ND	ND	ND	ND	ND	ND								
06/13/21 ND		06/11/21	ND	ND	ND	ND	ND	ND								
06/14/21 ND		06/12/21	ND	ND	ND	ND	ND	ND								
		06/13/21	ND	ND	ND	ND	ND	ND								
06/15/21 ND		06/14/21	ND	ND	ND	ND	ND	ND								
		06/15/21	ND	ND	ND	ND	ND	ND								

		06/16/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/17/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/18/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/19/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/22/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		06/23/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		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 Francisc	o RWQCB Water Habitat Goals (Freshwater - Table GW- Screening Levels)	2 Aquatic Habitat , 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