SUMMARY: Samples whavere 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	
W-002	along bridge, downstream side	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	
		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
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
		06/19/21	12,000	10,000	ND
W-004	between 3rd 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

		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
W-005	between 5th and 6th boom going upstream	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		
		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
W 005	hat an other 17th had a	06/09/21	16,000	3,500	ND
W-006	between 6th and 7th boom going upstream	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
		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
VV 007		06/15/21	5,700	5,400	ND
W-007	between 7th and 8th boom going upstream	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
		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
W-008	in shallow divided part of creek	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		

	1			
		09/07/21	170	
		09/10/21	ND	
		09/15/21	ND	 ND
		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
VV 000		06/25/21	95	
W-009	downstream of foot bridge	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
		05/10/21	84	 ND
		05/21/21	45	 ND
		05/24/21	190	 ND
		06/03/21	ND	 ND
W-010	just upstream of foot bridge	06/11/21	ND	 ND
		06/17/21	130	 ND
		06/23/21	ND	 ND
		06/28/21	ND	
		7/9/21	ND	 ND

	1		7	
		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	
		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
111 044		06/15/21	890	 ND
W-011	between foot bridge and outfall pipe	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	
		05/11/21	3,400	 ND
		05/18/21	560	 ND
	W-012 hetween foot bridge and outfall nine	i .		
W-012	between foot bridge and outfall pipe	05/26/21	ND	 ND
W-012	between foot bridge and outfall pipe	05/26/21 06/01/21	ND ND	 ND 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		
		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
W-013	between foot bridge and outfall pipe	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		
		05/11/21	ND		ND
		05/19/21	ND		ND
		05/28/21	ND		ND
		05/29/21	ND		ND
08/18/21	by outfall pipe	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	
		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
W-015	upstream of outfall pipe	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
		05/11/21	ND	 ND
W-016	between two upstream booms	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	

San Franci	sco RWQCB Water Habitat Goals (Freshwater - Table G	09/13/21	ND 640	 46 - 290
		08/27/21	ND	
		08/25/21	ND	
		08/23/21	ND	
		08/16/21	ND	
		08/11/21	ND	
		08/02/21	ND	

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	romatic 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 repor	ted 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
W 001	day, washing and a file of the	06/04/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-001	downstream of bridge	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
		06/16/21	ND	3.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

^{**}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.

0.612/12 NO	ĺ.	1			T		T	<u> </u>	1		1	1	1	1	I		
0.767/71 No. 1			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
## 4022 # along bridge, downstream side ## 4022 # along bridge, downstream side ## 4023 # approximately 10 feet downstream of list boom ## 4024 # approximately 10 feet downstream of list boom ## 4024 # approximately 10 feet downstream of list boom ## 4025 # approximately 10 feet downstream of list boom ## 4026 # approximately 10 feet downstream of list boom ## 4026 # approximately 10 feet downstream of list boom ## 4026 # approximately 10 feet downstream of list boom ## 4026 # approximately 10 feet downstream of list boom ## 4026 # approximately 10 feet downstream of list boom ## 4026 # approximately 10 feet downstream of list boom ## 4026 # approximately 10 feet downstream of list boom ## 4026 # approximately 10 feet downstream of list boom ## 4026 # approximately 10 feet downstream of list boom ## 4026 # approximately 10 feet downstream of list boom ## 4026 # approximately 10 feet downstream of list boom ## 4026 # approximately 10 feet downstream of list boom ## 4026 # approximately 10 feet downstream of list boom ## 4026 # approximately 10 feet downstream of list boom ## 4027 # approximately 10 feet downstream of list boom ## 4028 # approximately 10 feet downstream of list boom ## 4029 # approximately 10 feet downstream of list boom ## 4029 # approximately 10 feet downstream of list boom ## 4029 # approximately 10 feet downstream of list boom ## 4029 # approximately 10 feet downstream of list boom ## 4029 # approximately 10 feet downstream of list boom ## 4020 # approximately 10 feet downstream of list boom ## 4020 # approximately 10 feet downstream of list boom ## 4020 # approximately 10 feet downstream of list boom ## 4020 # approximately 10 feet downstream of list boom ## 4020 # approximately 10 feet downstream of list boom ## 4020 # approximately 10 feet downstream of list boom ## 4020 # approximately 10 feet downstream of list boom ## 4020 # approximately 10 feet downstream of list boom ## 4020 # approximately 10 feet downstream of list boom ## 4020 # approximately 10			07/07/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
March Marc			07/14/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
08/18/21 ND ND ND ND ND ND ND N			07/21/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
00/02/21 ND NO ND			08/04/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-002 Along bridge, downstream side 05/10/21 ND ND ND ND ND ND ND N			08/18/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
M-907 M-90			09/01/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
M-002 Along bridge, downstream side 06/08/21 ND ND ND ND ND ND ND N			05/10/21	ND	ND	ND	ND	ND	ND	ND	ND	0.083	0.14	ND	ND	ND	ND
W-002 W-00			06/02/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-002 Along bridge, downstream side			06/05/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-002 slong bridge, downstream side			06/08/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/17/21 ND ND ND ND ND ND ND N			06/11/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
M-003 approximately 10 feet downstream of last boom M-00 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
07/99/21 ND ND ND ND ND ND ND N			06/17/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
No			06/23/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7/30/21 ND			07/09/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-003 approximately 10 feet downstream of last boom 05/10/21 ND ND ND ND ND ND ND ND ND N			07/16/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-003 approximately 10 feet downstream of last boom 05/18/21 ND 0.017 ND 0.023 ND			7/30/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-003 ## approximately 10 feet downstream of last boom O5/19/21 ND ND ND ND ND ND ND N			05/10/21	ND	ND	ND	ND	ND	ND	ND	ND	0.12	0.21	ND	ND	ND	ND
W-003 Proximately 10 feet downstream of last boom 05/21/21 ND ND ND ND ND ND ND ND ND N			05/18/21	ND	0.017	ND	0.023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-003 W-003 approximately 10 feet downstream of last boom 05/22/21 ND ND ND ND ND ND ND ND ND N			05/19/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-003 approximately 10 feet downstream of last boom W-004 ND ND ND ND ND ND ND N			05/21/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-003 approximately 10 feet downstream of last boom 05/24/21 ND			05/22/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-003 approximately 10 feet downstream of last boom 05/25/21 ND			05/23/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05/26/21 ND <			05/24/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05/28/21 ND	W-003	approximately 10 feet downstream of last boom	05/25/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05/29/21 ND			05/26/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/03/21 ND			05/28/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/06/21 ND			05/29/21	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 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
06/12/21 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

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		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
W-005	between 5th and 6th boom going upstream	06/12/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VV-003	between 5th and 5th boom going upstream	06/13/21	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
		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						
		07/21/21	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	ND	ND	ND	ND
		05/10/21	ND	ND ND	ND	ND	ND	ND ND	ND ND	ND	0.14	0.25	ND	ND	ND	ND
			ND	ND	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 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	ND ND		ND		ND ND
		06/03/21	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND	ND ND	ND	0.14 ND	
		06/09/21														ND
		06/11/21	ND	ND	ND	ND	ND	ND	ND	ND						
		06/14/21	ND	ND	ND	ND	ND	ND	ND	ND						
		06/16/21	ND	ND	ND	ND	ND	ND	ND	ND ND						
W 006	hat was Cale and 74h has an acing wasters and	06/17/21	ND	ND	ND	ND	ND	ND	ND	ND						
W-006	between 6th and 7th boom going upstream	06/19/21	ND	ND	ND	ND	ND	ND	ND	ND						
		06/23/21	ND	ND	ND	ND	ND	ND	ND	ND ND						
		07/07/21	ND	ND	ND	ND	ND	ND	ND	ND						
		07/09/21	ND	ND	ND	ND	ND	ND	ND	ND						
		07/14/21	ND	ND	ND	ND	ND	ND	ND	ND						
		07/19/21	ND	ND	ND	ND	ND	ND	ND	ND						
		07/30/21	ND	ND	ND	ND	ND	ND	ND	ND						
		08/04/21	ND	ND	ND	ND	ND	ND	ND	ND						
		08/18/21	ND	ND	ND	ND	ND	ND	ND	ND						
		09/15/21	ND	ND	ND	ND	ND	ND	ND	ND						
		05/10/21	0.15	ND	ND	ND	ND	ND	ND	ND	1.2	2.2	ND	0.84	0.39	ND
		05/18/21	ND	ND	0.28	0.47	ND	ND	0.38	ND						
		05/28/21	ND	ND	ND	ND	ND	ND	ND	ND						
		06/01/21	ND	ND	ND	ND	ND	ND	ND	ND						
		06/06/21	ND	ND	ND	ND	ND	ND	ND	ND						
W-007	between 7th and 8th boom going upstream	06/10/21	ND	ND	ND	ND	ND	ND	ND	ND						
		06/11/21	ND	ND	ND	ND	ND	ND	ND	ND						
		06/13/21	ND	ND	ND	ND	ND	ND	ND	ND						
		06/15/21	ND	ND	ND	ND	ND	ND	ND	ND						
		06/17/21	ND	ND	ND	ND	ND	ND	ND	ND						
		06/19/21	ND	ND	ND	ND	ND	ND	ND	ND						
		06/22/21	ND	ND	ND	ND	ND	ND	0.083	ND						

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		06/23/21	ND	ND	ND	ND	ND	ND	ND	ND						
		07/07/21	ND	ND	ND	ND	ND	ND	ND	ND						
		07/09/21	ND	ND	ND	ND	ND	ND	ND	ND						
		07/14/21	ND	ND	ND	ND	ND	ND	ND	ND						
		07/21/21	ND	ND	ND	ND	ND	ND	ND	ND						
		08/18/21	ND	ND	ND	ND	ND	ND	ND	ND						
		09/01/21	ND	ND	ND	ND	ND	ND	ND	ND						
		05/10/21	ND	ND	ND	ND	ND	ND	0.036	ND	0.17	0.32	ND	ND	0.040	ND
		05/22/21	ND	ND	ND	ND	ND	ND	ND	ND						
		05/25/21	ND	ND	ND	ND	ND	ND	ND	ND						
		06/04/21	ND	ND	ND	ND	ND	ND	ND	ND						
		06/08/21	ND	ND	ND	ND	ND	ND	ND	ND						
		06/09/21	ND	ND	ND	ND	ND	ND	ND	ND						
		06/12/21	ND	ND	ND	ND	ND	ND	ND	ND						
		06/14/21	ND	ND	ND	ND	ND	ND	ND	ND						
		06/16/21	ND	ND	ND	ND	ND	ND	ND	ND						
W-008	in shallow divided part of creek	06/18/21	ND	ND	ND	ND	ND	ND	ND	ND						
		07/07/21	ND	ND	ND	ND	ND	ND	ND	ND						
		07/12/21	ND	ND	ND	ND	ND	ND	ND	ND						
		07/16/21	ND	ND	ND	ND	ND	ND	ND	ND						
		07/19/21	ND	ND	ND	ND	ND	ND	ND	ND						
		07/27/21	ND	ND	ND	ND	ND	ND	ND	ND						
		07/30/21	ND	ND	ND	ND	ND	ND	ND	ND						
		08/04/21	ND	ND	ND	ND	ND	ND	ND	ND						
		08/18/21	ND	ND	ND	ND	ND	ND	ND	ND						
		09/15/21	ND	ND	ND	ND	ND	ND	ND	ND						
		05/10/21	ND	ND	ND	ND	ND	ND	ND	ND						
		05/18/21	ND	ND	ND	ND	ND	ND	ND	ND						
		05/23/21	ND	ND	ND	ND	ND	ND	ND	ND						
		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						
		06/05/21	ND	ND	ND	ND	ND	ND	ND	ND						
		06/06/21	ND	ND	ND	ND	ND	ND	ND	ND						
		06/10/21	ND	ND	ND	ND	ND	ND	ND	ND						
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06/17/21 ND ND ND ND ND ND ND N			06/13/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
March Marc										1							
17/90/21 NO										1							
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08/07/22 NO ND																	
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W-0.10										1							
M-0110												-					
M-010 Just upstream of foot bridge S5/24/21 NO NO ND ND ND ND ND ND					ND					1							
W-910				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
W-010 just upstream of foot bridge G6/17/21 ND ND ND ND ND ND ND N			06/03/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/23/21			06/11/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
07/09/21 ND ND ND ND ND ND ND N	W-010	just upstream of foot bridge	06/17/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
07/21/21 ND ND ND ND ND ND ND N			06/23/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
07/30/21 ND ND ND ND ND ND ND N			07/09/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
09/01/21 ND ND ND ND ND ND ND N			07/21/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
No			07/30/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-011			09/01/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-011 between foot bridge and outfall pipe 05/22/21 ND ND ND ND ND ND ND N			05/10/21	ND	ND	ND	ND	ND	ND	ND	ND	0.028	ND	ND	ND	ND	ND
W-011 Detween foot bridge and outfall pipe Def			05/19/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-011 between foot bridge and outfall pipe 05/25/21 ND ND ND ND ND ND ND N			05/22/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-011 Mathematical Distribution Mathematical Distribu			05/23/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-011 between foot bridge and outfall pipe 06/02/21 ND ND ND ND ND ND ND N			05/25/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-011			05/29/21	ND	ND	ND	ND	ND	0.21	ND	ND	ND	ND	ND	ND	ND	ND
06/08/21 ND			06/02/21	ND	ND	ND	ND	ND	0.19	ND	0.16	ND	ND	ND	ND	ND	ND
06/12/21 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
06/15/21 ND			06/08/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
07/12/21 ND			06/12/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
07/21/21 ND			06/15/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
07/27/21 ND			07/12/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
09/01/21 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
W-012 between foot bridge and outfall pipe 05/11/21 ND ND ND ND ND ND ND ND ND 0.028 0.041 ND ND 0.045 ND			09/01/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	W-012	between foot bridge and outfall pipe	05/11/21	ND	ND	ND	ND	ND	ND	ND	ND	0.028	0.041	ND	ND	0.045	ND

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		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
		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
		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
		07/16/21	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
		05/11/21	ND	ND	ND	ND	ND	ND	ND	ND	0.013	0.023	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
W-013	between foot bridge and outfall pipe	06/11/21	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
		06/19/21	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
		07/19/21	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	ND	ND	ND	ND	ND	ND
		05/19/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		05/28/21	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	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
W-014	by outfall pipe	06/12/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VV-014	by outrain pipe	06/16/21	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
		07/09/21	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
		07/27/21	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
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Model Mod																	
Marchane			<u> </u>														
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March Marc			<u> </u>			ND	ND			ND			ND				
Marchanne Face Parter Marchanne			<u> </u>	ND	ND	ND	ND	ND	ND								
Month Mont			06/08/21	ND	ND	ND	ND	ND	ND								
			06/14/21	ND	ND	ND	ND	ND	ND								
07/19/21 ND ND ND ND ND ND ND N	W-015	upstream of outfall pipe	06/18/21	ND	ND	ND	ND	ND	ND								
07/27/21 ND ND ND ND ND ND ND N			07/14/21	ND	ND	ND	ND	ND	ND								
March Marc			07/19/21	ND	ND	ND	ND	ND	ND								
No			07/27/21	ND	ND	ND	ND	ND	ND								
No			07/30/21	ND	ND	ND	ND	ND	ND								
No			09/15/21	ND	ND	ND	ND	ND	ND								
O5/19/21 ND ND ND ND ND ND ND N			05/11/21	ND	ND	ND	ND	ND	ND								
No			05/18/21	ND	ND	ND	ND	ND	ND								
No			05/19/21	ND	ND	ND	ND	ND	ND								
No			05/21/21	ND	ND	ND	ND	ND	ND								
No.			05/22/21	ND	ND	ND	ND	ND	ND								
W-016 W-			05/23/21	ND	ND	ND	ND	ND	ND								
W-016 No			05/24/21	ND	ND	ND	ND	ND	ND								
W-016 No			05/25/21	ND	ND	ND	ND	ND	ND								
W-016 between two upstream booms			05/26/21	ND	ND	ND	ND	ND	ND								
05/29/21 ND	W 016	hatwoon two unstroom hooms	05/28/21	ND	0.099	0.33	0.26	ND	ND	ND							
06/02/21 ND	VV-010	between two upstream booms	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			06/02/21	ND	ND	ND	ND	ND	ND								
06/05/21 ND			06/03/21	ND	ND	ND	ND	ND	ND								
			06/04/21	ND	ND	ND	ND	ND	ND								
06/06/21 ND			06/05/21	ND	ND	ND	ND	ND	ND								
			06/06/21	ND	ND	ND	ND	ND	ND								
06/08/21 ND			06/08/21	ND	ND	ND	ND	ND	ND								
06/09/21 ND			06/09/21	ND	ND	ND	ND	ND	ND								
06/10/21 ND			06/10/21	ND	ND	ND	ND	ND	ND								

		06/11/21	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
		06/14/21	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
		06/16/21	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	San Francisco RWQCB Water Habitat Goals (Freshwater - Table GW-2 Aquatic Habitat Screening Levels), 2019, Revision 2			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