

SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

Analytical Report

PREPARED FOR:

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Routine: UWPD_SPECIAL

Scheduled Sample Date: 03/22/2024

Sampling Team:

Lab Sample#: **2412407-01** Sample Source: SPECIAL External ID:

Date Collected: 03/22/2024 09:12PM Date Received: 03/25/2024 12:17PM Sample Matrix: Aqueous Location Desc: Beach Chalet North

Test/Analyte

SEM_200.8_WW(EPA 200.8)	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Antimony, Sb	DNQ 0.495	µg/L	1	0.09	0.5	05/01/2024	2077729 MARTEAGA	J
Arsenic, As	DNQ 1.37	µg/L	1	0.07	2	05/01/2024	2077729 MARTEAGA	J
Barium, Ba	39.9	µg/L	1			05/01/2024	2077729 MARTEAGA	
Cadmium, Cd	0.376	µg/L	1	0.02	0.25	05/01/2024	2077729 MARTEAGA	
Chromium, Cr	25.7	µg/L	1	0.2	0.5	05/01/2024	2077729 MARTEAGA	
Cobalt, Co	1.23	µg/L	1			05/01/2024	2077729 MARTEAGA	
Copper, Cu	9.3	µg/L	1	0.8	0.5	05/01/2024	2077729 MARTEAGA	
Lead, Pb	3.58	µg/L	1	0.4	0.5	05/01/2024	2077729 MARTEAGA	
Manganese, Mn	94	µg/L	1			05/01/2024	2077729 MARTEAGA	
Molybdenum, Mo	1.53	µg/L	1			05/01/2024	2077729 MARTEAGA	
Nickel, Ni	9.99	µg/L	1	0.2	1	05/01/2024	2077729 MARTEAGA	
Selenium, Se	<0.4	µg/L	1	0.4	2	05/01/2024	2077729 MARTEAGA	
Silver, Ag	DNQ 0.0644	µg/L	1	0.03	0.25	05/01/2024	2077729 MARTEAGA	J
Thallium, Tl	DNQ 0.245	µg/L	1	0.06	1	05/01/2024	2077729 MARTEAGA	J
Vanadium, V	17.9	µg/L	1			05/01/2024	2077729 MARTEAGA	
Zinc, Zn	117	µg/L	1	1.5	1	05/01/2024	2077729 MARTEAGA	

SEM_245.1_WW(EPA 245.1)	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Mercury, Hg	0.42	µg/L	1	0.09	0.2	03/27/2024	2077683 GMAYS	

SEO_624(EPA 624.1)	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Dichlorodifluoromethane (F-12)	<0.18	µg/L	1	0.18	0.5	03/26/2024	2077579 BOKUMA	
Chloromethane	<0.19	µg/L	1	0.19	0.5	03/26/2024	2077579 BOKUMA	
Vinyl chloride	<0.12	µg/L	1	0.12	0.5	03/26/2024	2077579 BOKUMA	
Bromomethane	<0.22	µg/L	1	0.22	1	03/26/2024	2077579 BOKUMA	
Chloroethane	<0.1	µg/L	1	0.1	0.5	03/26/2024	2077579 BOKUMA	
Trichlorofluoromethane (F-11)	<0.14	µg/L	1	0.14	0.5	03/26/2024	2077579 BOKUMA	
1,1-Dichloroethylene	<0.11	µg/L	1	0.11	0.5	03/26/2024	2077579 BOKUMA	
Methylene chloride	<0.29	µg/L	1	0.29	0.5	03/26/2024	2077579 BOKUMA	
trans-1,2-Dichloroethylene	<0.057	µg/L	1	0.057	0.5	03/26/2024	2077579 BOKUMA	
Methyl t-butyl ether	<0.047	µg/L	1	0.047	0.5	03/26/2024	2077579 BOKUMA	
1,1-Dichloroethane	<0.048	µg/L	1	0.048	0.5	03/26/2024	2077579 BOKUMA	
Chloroform, THM	<0.048	µg/L	1	0.048	0.5	03/26/2024	2077579 BOKUMA	
1,2-Dichloroethane	<0.047	µg/L	1	0.047	0.5	03/26/2024	2077579 BOKUMA	
1,1,1-Trichloroethane	<0.062	µg/L	1	0.062	0.5	03/26/2024	2077579 BOKUMA	
Carbon tetrachloride	<0.11	µg/L	1	0.11	0.5	03/26/2024	2077579 BOKUMA	
Benzene	<0.051	µg/L	1	0.051	0.5	03/26/2024	2077579 BOKUMA	
1,2-Dichloropropane	<0.065	µg/L	1	0.065	0.5	03/26/2024	2077579 BOKUMA	

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Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Scheduled Sample Date: 03/22/2024

Routine: UWPD_SPECIAL

Sampling Team:

Compound	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Trichloroethylene	<0.083	µg/L	1	0.083	0.5	03/26/2024	2077579 BOKUMA	
Bromodichloromethane, THM	<0.068	µg/L	1	0.068	0.5	03/26/2024	2077579 BOKUMA	
2-Chloroethyl vinyl ether	<0.25	µg/L	1	0.25	1	03/26/2024	2077579 BOKUMA	
cis-1,3-dichloropropene	<0.085	µg/L	1	0.085	0.5	03/26/2024	2077579 BOKUMA	
trans-1,3-Dichloropropene	<0.12	µg/L	1	0.12	0.5	03/26/2024	2077579 BOKUMA	
1,1,2-Trichloroethane	<0.043	µg/L	1	0.043	0.5	03/26/2024	2077579 BOKUMA	
Toluene	DNQ 0.06	µg/L	1	0.051	0.5	03/26/2024	2077579 BOKUMA	J
Dibromochloromethane, THM	<0.054	µg/L	1	0.054	0.5	03/26/2024	2077579 BOKUMA	
Tetrachloroethylene	<0.1	µg/L	1	0.1	0.5	03/26/2024	2077579 BOKUMA	
Chlorobenzene	<0.031	µg/L	1	0.031	0.5	03/26/2024	2077579 BOKUMA	
Ethylbenzene	<0.076	µg/L	1	0.076	0.5	03/26/2024	2077579 BOKUMA	
1,3(1,4)-dimethylbenzene	<0.061	µg/L	1	0.061	0.5	03/26/2024	2077579 BOKUMA	
Bromoform, THM	<0.09	µg/L	1	0.09	0.5	03/26/2024	2077579 BOKUMA	
1,1,2,2-Tetrachloroethane	<0.092	µg/L	1	0.092	0.5	03/26/2024	2077579 BOKUMA	
1,2-dimethylbenzene	<0.057	µg/L	1	0.057	0.5	03/26/2024	2077579 BOKUMA	
1,3-Dichlorobenzene	<0.07	µg/L	1	0.07	0.5	03/26/2024	2077579 BOKUMA	
1,4-Dichlorobenzene	<0.034	µg/L	1	0.034	0.5	03/26/2024	2077579 BOKUMA	
1,2-Dichlorobenzene	<0.05	µg/L	1	0.05	0.5	03/26/2024	2077579 BOKUMA	
Acrolein	<0.51	µg/L	1	0.51	2	03/26/2024	2077579 BOKUMA	H2
Acrylonitrile	<0.64	µg/L	1	0.64	2	03/26/2024	2077579 BOKUMA	
Surrogate(s)								
1,2-Dichloroethane-d4 (Surr.)	4.6	µg/L	1			03/26/2024	2077579 BOKUMA	
Toluene-d8 (Surr.)	4.2	µg/L	1			03/26/2024	2077579 BOKUMA	
1-Bromo-4-fluorobenzene (Surr.)	3.8	µg/L	1			03/26/2024	2077579 BOKUMA	

SEO_625(EPA 625.1)	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
N-nitroso-dimethylamine (NDMA)	<0.42	µg/L	1	0.42	5.2	04/05/2024	2078142 DALI	
Phenol	<0.29	µg/L	1	0.29	1	04/05/2024	2078142 DALI	
Bis-(2-chloroethyl)-ether	<0.45	µg/L	1	0.45	1	04/05/2024	2078142 DALI	
2-Chlorophenol	<0.82	µg/L	1	0.82	2.1	04/05/2024	2078142 DALI	
Bis-(2-chloroisopropyl)-ether	<1	µg/L	1	1	2.1	04/05/2024	2078142 DALI	
N-nitroso-di-n-propylamine (NDPA)	<1.1	µg/L	1	1.1	5.2	04/05/2024	2078142 DALI	
Hexachloroethane	<0.61	µg/L	1	0.61	1	04/05/2024	2078142 DALI	
Nitrobenzene	<0.47	µg/L	1	0.47	1	04/05/2024	2078142 DALI	
Isophorone	<0.44	µg/L	1	0.44	1	04/05/2024	2078142 DALI	
2-Nitrophenol	<1	µg/L	1	1	10	04/05/2024	2078142 DALI	
2,4-Dimethylphenol	<0.74	µg/L	1	0.74	1	04/05/2024	2078142 DALI	
Bis-(2-chloroethoxy)-methane	<1	µg/L	1	1	5.2	04/05/2024	2078142 DALI	
2,4-Dichlorophenol	<0.88	µg/L	1	0.88	1	04/05/2024	2078142 DALI	
1,2,4-Trichlorobenzene	<0.34	µg/L	1	0.34	1	04/05/2024	2078142 DALI	
Naphthalene	<0.0097	µg/L	1	0.0097	0.21	04/05/2024	2078142 DALI	
Hexachlorobutadiene	<0.66	µg/L	1	0.66	1	04/05/2024	2078142 DALI	

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Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Scheduled Sample Date: 03/22/2024

Routine: UWPD_SPECIAL

Sampling Team:

4-Chloro-3-methylphenol	<0.78	µg/L	1	0.78	1	04/05/2024	2078142	DALI
Hexachlorocyclopentadiene	<0.57	µg/L	1	0.57	5.2	04/05/2024	2078142	DALI
2,4,6-Trichlorophenol	<1.3	µg/L	1	1.3	10	04/05/2024	2078142	DALI
2-Chloronaphthalene	<1	µg/L	1	1	10	04/05/2024	2078142	DALI
Dimethyl phthalate	<1.3	µg/L	1	1.3	2.1	04/05/2024	2078142	DALI
2,6-Dinitrotoluene	<0.81	µg/L	1	0.81	5.2	04/05/2024	2078142	DALI
Acenaphthylene	<0.0084	µg/L	1	0.0084	0.21	04/05/2024	2078142	DALI
Acenaphthene	<0.0095	µg/L	1	0.0095	0.52	04/05/2024	2078142	DALI
2,4-Dinitrophenol	<1.3	µg/L	1	1.3	5.2	04/05/2024	2078142	DALI
4-Nitrophenol	<0.25	µg/L	1	0.25	5.2	04/05/2024	2078142	DALI
2,4-Dinitrotoluene	<0.73	µg/L	1	0.73	5.2	04/05/2024	2078142	DALI
Diethyl phthalate	<1.1	µg/L	1	1.1	2.1	04/05/2024	2078142	DALI
Fluorene	<0.013	µg/L	1	0.013	0.1	04/05/2024	2078142	DALI
4-Chlorophenyl phenyl ether	<1	µg/L	1	1	5.2	04/05/2024	2078142	DALI
4,6-Dinitro-2-methylphenol	<0.93	µg/L	1	0.93	5.2	04/05/2024	2078142	DALI
N-nitroso-diphenylamine	<0.36	µg/L	1	0.36	1	04/05/2024	2078142	DALI
1,2-Diphenylhydrazine	<0.4	µg/L	1	0.4	1	04/05/2024	2078142	DALI
4-Bromophenyl phenyl ether	<0.98	µg/L	1	0.98	5.2	04/05/2024	2078142	DALI
Hexachlorobenzene	<0.31	µg/L	1	0.31	1	04/05/2024	2078142	DALI
Pentachlorophenol	<0.72	µg/L	1	0.72	1	04/05/2024	2078142	DALI
Phenanthrene	<0.0084	µg/L	1	0.0084	0.052	04/05/2024	2078142	DALI
Anthracene	<0.0074	µg/L	1	0.0074	2.1	04/05/2024	2078142	DALI
Di-n-butylphthalate	<0.68	µg/L	1	0.68	10	04/05/2024	2078142	DALI
Fluoranthene	<0.0092	µg/L	1	0.0092	0.052	04/05/2024	2078142	DALI
Benzidine	<1.4	µg/L	1	1.4	5.2	04/05/2024	2078142	DALI
Pyrene	<0.01	µg/L	1	0.01	0.052	04/05/2024	2078142	DALI
Butyl benzyl phthalate	<1.2	µg/L	1	1.2	10	04/05/2024	2078142	DALI
Benzo[a]anthracene	<0.012	µg/L	1	0.012	5.2	04/05/2024	2078142	DALI
3,3-Dichlorobenzidine	<0.72	µg/L	1	0.72	5.2	04/05/2024	2078142	DALI
Chrysene	<0.011	µg/L	1	0.011	5.2	04/05/2024	2078142	DALI
Bis-(2-ethylhexyl)-phthalate	<2	µg/L	1	2	5.2	04/05/2024	2078142	DALI
Di-n-octyl phthalate	<0.63	µg/L	1	0.63	10	04/05/2024	2078142	DALI
Benzo[b]fluoranthene	<0.0084	µg/L	1	0.0084	10	04/05/2024	2078142	DALI
Benzo[k]fluoranthene	<0.012	µg/L	1	0.012	2.1	04/05/2024	2078142	DALI
Benzo[a]pyrene	<0.011	µg/L	1	0.011	2.1	04/05/2024	2078142	DALI
Indeno[1,2,3-cd]pyrene	<0.0061	µg/L	1	0.0061	0.052	04/05/2024	2078142	DALI
Dibenzo-[a,h]-anthracene	<0.0071	µg/L	1	0.0071	0.1	04/05/2024	2078142	DALI
Benzo[ghi]perylene	<0.0091	µg/L	1	0.0091	0.1	04/05/2024	2078142	DALI
Surrogate(s)								
2-Fluorophenol (Surr.)	5.4	µg/L	1	0.001	0.001	04/05/2024	2078142	DALI
Phenol-d6 (Surr.)	3.6	µg/L	1	0.001	0.001	04/05/2024	2078142	DALI
Nitrobenzene-d5 (Surr.)	20	µg/L	1	0.001	0.001	04/05/2024	2078142	DALI

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Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Scheduled Sample Date: 03/22/2024

Routine: UWPD_SPECIAL

Sampling Team:

Test/Analyte	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
2-Fluorobiphenyl (Surr.)	20	µg/L	1	0.001	0.001	04/05/2024	2078142 DALI	
2,4,6-Tribromophenol (Surr.)	12	µg/L	1	0.001	0.001	04/05/2024	2078142 DALI	
Terphenyl-d14 (Surr.)	15	µg/L	1	0.001	0.001	04/05/2024	2078142 DALI	

SEP_TDS(SM 2540 C)	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Total Dissolved Solids	351	mg/L	1	24		03/27/2024	2077660 ISANJUAN	

SEP_TSS/TVSS(SM 2540 D/E)	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Total Suspended Solids	71.5	mg/L	1	3		03/28/2024	2077724 NLY	

Lab Sample#:	2412407-01A	Sample Source:	SPECIAL	External ID:					
Date Collected:	03/22/2024 09:12PM	Date Received:	03/25/2024 12:17PM	Sample Matrix:	Aqueous	Location Desc:	Beach Chalet North		
Test/Analyte									
SEM_200.8_WW(EPA 200.8)	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments	
Beryllium, Be	DNQ 0.0987	µg/L	1	0.007	0.5	05/06/2024	2077729 MARTEAGA	J	

Lab Sample#:	2412407-03	Sample Source:	SPECIAL	External ID:					
Date Collected:	03/22/2024 08:56PM	Date Received:	03/25/2024 12:17PM	Sample Matrix:	Aqueous	Location Desc:	Minnie Lovie Downstream		
Test/Analyte									
SEM_200.8_WW(EPA 200.8)	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments	
Antimony, Sb	1.3	µg/L	1	0.09	0.5	05/01/2024	2077729 MARTEAGA		
Arsenic, As	DNQ 0.738	µg/L	1	0.07	2	05/01/2024	2077729 MARTEAGA	J	
Barium, Ba	56.6	µg/L	1			05/01/2024	2077729 MARTEAGA		
Cadmium, Cd	0.529	µg/L	1	0.02	0.25	05/01/2024	2077729 MARTEAGA		
Chromium, Cr	1.46	µg/L	1	0.2	0.5	05/01/2024	2077729 MARTEAGA		
Cobalt, Co	0.326	µg/L	1			05/01/2024	2077729 MARTEAGA		
Copper, Cu	9.58	µg/L	1	0.8	0.5	05/01/2024	2077729 MARTEAGA		
Lead, Pb	1.41	µg/L	1	0.4	0.5	05/01/2024	2077729 MARTEAGA		
Manganese, Mn	51.6	µg/L	1			05/01/2024	2077729 MARTEAGA		
Molybdenum, Mo	0.614	µg/L	1			05/01/2024	2077729 MARTEAGA		
Nickel, Ni	1.67	µg/L	1	0.2	1	05/01/2024	2077729 MARTEAGA		
Selenium, Se	<0.4	µg/L	1	0.4	2	05/01/2024	2077729 MARTEAGA		
Silver, Ag	<0.03	µg/L	1	0.03	0.25	05/01/2024	2077729 MARTEAGA		
Thallium, Tl	<0.06	µg/L	1	0.06	1	05/01/2024	2077729 MARTEAGA		
Vanadium, V	6.58	µg/L	1			05/01/2024	2077729 MARTEAGA		
Zinc, Zn	41.1	µg/L	1	1.5	1	05/01/2024	2077729 MARTEAGA		

SEM_245.1_WW(EPA 245.1)	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Mercury, Hg	<0.09	µg/L	1	0.09	0.2	03/27/2024	2077683 GMAYS	

SEO_624(EPA 624.1)	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Dichlorodifluoromethane (F-12)	<0.18	µg/L	1	0.18	0.5	03/26/2024	2077579 BOKUMA	
Chloromethane	<0.19	µg/L	1	0.19	0.5	03/26/2024	2077579 BOKUMA	

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Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Scheduled Sample Date: 03/22/2024

Routine: UWPD_SPECIAL

Sampling Team:

Vinyl chloride	<0.12	µg/L	1	0.12	0.5	03/26/2024	2077579	BOKUMA
Bromomethane	<0.22	µg/L	1	0.22	1	03/26/2024	2077579	BOKUMA
Chloroethane	<0.1	µg/L	1	0.1	0.5	03/26/2024	2077579	BOKUMA
Trichlorofluoromethane (F-11)	<0.14	µg/L	1	0.14	0.5	03/26/2024	2077579	BOKUMA
1,1-Dichloroethylene	<0.11	µg/L	1	0.11	0.5	03/26/2024	2077579	BOKUMA
Methylene chloride	<0.29	µg/L	1	0.29	0.5	03/26/2024	2077579	BOKUMA
trans-1,2-Dichloroethylene	<0.057	µg/L	1	0.057	0.5	03/26/2024	2077579	BOKUMA
Methyl t-butyl ether	<0.047	µg/L	1	0.047	0.5	03/26/2024	2077579	BOKUMA
1,1-Dichloroethane	<0.048	µg/L	1	0.048	0.5	03/26/2024	2077579	BOKUMA
Chloroform, THM	<0.048	µg/L	1	0.048	0.5	03/26/2024	2077579	BOKUMA
1,2-Dichloroethane	<0.047	µg/L	1	0.047	0.5	03/26/2024	2077579	BOKUMA
1,1,1-Trichloroethane	<0.062	µg/L	1	0.062	0.5	03/26/2024	2077579	BOKUMA
Carbon tetrachloride	<0.11	µg/L	1	0.11	0.5	03/26/2024	2077579	BOKUMA
Benzene	<0.051	µg/L	1	0.051	0.5	03/26/2024	2077579	BOKUMA
1,2-Dichloropropane	<0.065	µg/L	1	0.065	0.5	03/26/2024	2077579	BOKUMA
Trichloroethylene	<0.083	µg/L	1	0.083	0.5	03/26/2024	2077579	BOKUMA
Bromodichloromethane, THM	<0.068	µg/L	1	0.068	0.5	03/26/2024	2077579	BOKUMA
2-Chloroethyl vinyl ether	<0.25	µg/L	1	0.25	1	03/26/2024	2077579	BOKUMA
cis-1,3-dichloropropene	<0.085	µg/L	1	0.085	0.5	03/26/2024	2077579	BOKUMA
trans-1,3-Dichloropropene	<0.12	µg/L	1	0.12	0.5	03/26/2024	2077579	BOKUMA
1,1,2-Trichloroethane	<0.043	µg/L	1	0.043	0.5	03/26/2024	2077579	BOKUMA
Toluene	<0.051	µg/L	1	0.051	0.5	03/26/2024	2077579	BOKUMA
Dibromochloromethane, THM	<0.054	µg/L	1	0.054	0.5	03/26/2024	2077579	BOKUMA
Tetrachloroethylene	<0.1	µg/L	1	0.1	0.5	03/26/2024	2077579	BOKUMA
Chlorobenzene	<0.031	µg/L	1	0.031	0.5	03/26/2024	2077579	BOKUMA
Ethylbenzene	<0.076	µg/L	1	0.076	0.5	03/26/2024	2077579	BOKUMA
1,3(1,4)-dimethylbenzene	<0.061	µg/L	1	0.061	0.5	03/26/2024	2077579	BOKUMA
Bromoform, THM	<0.09	µg/L	1	0.09	0.5	03/26/2024	2077579	BOKUMA
1,1,2,2-Tetrachloroethane	<0.092	µg/L	1	0.092	0.5	03/26/2024	2077579	BOKUMA
1,2-dimethylbenzene	<0.057	µg/L	1	0.057	0.5	03/26/2024	2077579	BOKUMA
1,3-Dichlorobenzene	<0.07	µg/L	1	0.07	0.5	03/26/2024	2077579	BOKUMA
1,4-Dichlorobenzene	<0.034	µg/L	1	0.034	0.5	03/26/2024	2077579	BOKUMA
1,2-Dichlorobenzene	<0.05	µg/L	1	0.05	0.5	03/26/2024	2077579	BOKUMA
Acrolein	<0.51	µg/L	1	0.51	2	03/26/2024	2077579	BOKUMA H2
Acrylonitrile	<0.64	µg/L	1	0.64	2	03/26/2024	2077579	BOKUMA
Surrogate(s)								
1,2-Dichloroethane-d4 (Surr.)	4.5	µg/L	1			03/26/2024	2077579	BOKUMA
Toluene-d8 (Surr.)	4.3	µg/L	1			03/26/2024	2077579	BOKUMA
1-Bromo-4-fluorobenzene (Surr.)	3.8	µg/L	1			03/26/2024	2077579	BOKUMA

SEO_625(EPA 625.1)

Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
<0.41	µg/L	1	0.41	5.1	04/05/2024	2078142 DALI	

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Scheduled Sample Date: 03/22/2024

Routine: UWPD_SPECIAL

Sampling Team:

Phenol	<0.28	µg/L	1	0.28	1	04/05/2024	2078142	DALI
Bis-(2-chloroethyl)-ether	<0.44	µg/L	1	0.44	1	04/05/2024	2078142	DALI
2-Chlorophenol	<0.81	µg/L	1	0.81	2	04/05/2024	2078142	DALI
Bis-(2-chloroisopropyl)-ether	<1	µg/L	1	1	2	04/05/2024	2078142	DALI
N-nitroso-di-n-propylamine (NDPA)	<1.1	µg/L	1	1.1	5.1	04/05/2024	2078142	DALI
Hexachloroethane	<0.6	µg/L	1	0.6	1	04/05/2024	2078142	DALI
Nitrobenzene	<0.46	µg/L	1	0.46	1	04/05/2024	2078142	DALI
Isophorone	<0.43	µg/L	1	0.43	1	04/05/2024	2078142	DALI
2-Nitrophenol	<1	µg/L	1	1	10	04/05/2024	2078142	DALI
2,4-Dimethylphenol	<0.73	µg/L	1	0.73	1	04/05/2024	2078142	DALI
Bis-(2-chloroethoxy)-methane	<1	µg/L	1	1	5.1	04/05/2024	2078142	DALI
2,4-Dichlorophenol	<0.86	µg/L	1	0.86	1	04/05/2024	2078142	DALI
1,2,4-Trichlorobenzene	<0.33	µg/L	1	0.33	1	04/05/2024	2078142	DALI
Naphthalene	<0.0095	µg/L	1	0.0095	0.2	04/05/2024	2078142	DALI
Hexachlorobutadiene	<0.65	µg/L	1	0.65	1	04/05/2024	2078142	DALI
4-Chloro-3-methylphenol	<0.77	µg/L	1	0.77	1	04/05/2024	2078142	DALI
Hexachlorocyclopentadiene	<0.56	µg/L	1	0.56	5.1	04/05/2024	2078142	DALI
2,4,6-Trichlorophenol	<1.3	µg/L	1	1.3	10	04/05/2024	2078142	DALI
2-Chloronaphthalene	<0.98	µg/L	1	0.98	10	04/05/2024	2078142	DALI
Dimethyl phthalate	<1.3	µg/L	1	1.3	2	04/05/2024	2078142	DALI
2,6-Dinitrotoluene	<0.8	µg/L	1	0.8	5.1	04/05/2024	2078142	DALI
Acenaphthylene	<0.0082	µg/L	1	0.0082	0.2	04/05/2024	2078142	DALI
Acenaphthene	<0.0093	µg/L	1	0.0093	0.51	04/05/2024	2078142	DALI
2,4-Dinitrophenol	<1.3	µg/L	1	1.3	5.1	04/05/2024	2078142	DALI
4-Nitrophenol	<0.24	µg/L	1	0.24	5.1	04/05/2024	2078142	DALI
2,4-Dinitrotoluene	<0.72	µg/L	1	0.72	5.1	04/05/2024	2078142	DALI
Diethyl phthalate	<1.1	µg/L	1	1.1	2	04/05/2024	2078142	DALI
Fluorene	<0.013	µg/L	1	0.013	0.1	04/05/2024	2078142	DALI
4-Chlorophenyl phenyl ether	<1	µg/L	1	1	5.1	04/05/2024	2078142	DALI
4,6-Dinitro-2-methylphenol	<0.91	µg/L	1	0.91	5.1	04/05/2024	2078142	DALI
N-nitroso-diphenylamine	<0.35	µg/L	1	0.35	1	04/05/2024	2078142	DALI
1,2-Diphenylhydrazine	<0.39	µg/L	1	0.39	1	04/05/2024	2078142	DALI
4-Bromophenyl phenyl ether	<0.96	µg/L	1	0.96	5.1	04/05/2024	2078142	DALI
Hexachlorobenzene	<0.3	µg/L	1	0.3	1	04/05/2024	2078142	DALI
Pentachlorophenol	<0.71	µg/L	1	0.71	1	04/05/2024	2078142	DALI
Phenanthrene	<0.0082	µg/L	1	0.0082	0.051	04/05/2024	2078142	DALI
Anthracene	<0.0073	µg/L	1	0.0073	2	04/05/2024	2078142	DALI
Di-n-butylphthalate	<0.67	µg/L	1	0.67	10	04/05/2024	2078142	DALI
Fluoranthene	<0.009	µg/L	1	0.009	0.051	04/05/2024	2078142	DALI
Benzidine	<1.4	µg/L	1	1.4	5.1	04/05/2024	2078142	DALI
Pyrene	<0.01	µg/L	1	0.01	0.051	04/05/2024	2078142	DALI
Butyl benzyl phthalate	<1.2	µg/L	1	1.2	10	04/05/2024	2078142	DALI

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Scheduled Sample Date: 03/22/2024

Routine: UWPD_SPECIAL

Sampling Team:

Chemical Name	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Benzo[a]anthracene	<0.012	µg/L	1	0.012	5.1	04/05/2024	2078142 DALI	
3,3-Dichlorobenzidine	<0.71	µg/L	1	0.71	5.1	04/05/2024	2078142 DALI	
Chrysene	<0.011	µg/L	1	0.011	5.1	04/05/2024	2078142 DALI	
Bis-(2-ethylhexyl)-phthalate	<1.9	µg/L	1	1.9	5.1	04/05/2024	2078142 DALI	
Di-n-octyl phthalate	<0.62	µg/L	1	0.62	10	04/05/2024	2078142 DALI	
Benzo[b]fluoranthene	<0.0082	µg/L	1	0.0082	10	04/05/2024	2078142 DALI	
Benzo[k]fluoranthene	<0.012	µg/L	1	0.012	2	04/05/2024	2078142 DALI	
Benzo[a]pyrene	<0.011	µg/L	1	0.011	2	04/05/2024	2078142 DALI	
Indeno[1,2,3-cd]pyrene	<0.006	µg/L	1	0.006	0.051	04/05/2024	2078142 DALI	
Dibenzo-[a,h]-anthracene	<0.007	µg/L	1	0.007	0.1	04/05/2024	2078142 DALI	
Benzo[ghi]perylene	<0.0089	µg/L	1	0.0089	0.1	04/05/2024	2078142 DALI	
Surrogate(s)								
2-Fluorophenol (Surr.)	5.8	µg/L	1	0.001	0.001	04/05/2024	2078142 DALI	
Phenol-d6 (Surr.)	3.7	µg/L	1	0.001	0.001	04/05/2024	2078142 DALI	
Nitrobenzene-d5 (Surr.)	17	µg/L	1	0.001	0.001	04/05/2024	2078142 DALI	
2-Fluorobiphenyl (Surr.)	17	µg/L	1	0.001	0.001	04/05/2024	2078142 DALI	
2,4,6-Tribromophenol (Surr.)	15	µg/L	1	0.001	0.001	04/05/2024	2078142 DALI	
Terphenyl-d14 (Surr.)	15	µg/L	1	0.001	0.001	04/05/2024	2078142 DALI	

SEP_TDS(SM 2540 C)	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Total Dissolved Solids	143	mg/L	1	24		03/27/2024	2077660 ISANJUAN	

SEP_TSS/TVSS(SM 2540 D/E)	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Total Suspended Solids	15.7	mg/L	1	3		03/28/2024	2077724 NLY	

Lab Sample#: 2412407-03A Sample Source: SPECIAL External ID:

Date Collected: 03/22/2024 08:56PM **Date Received:** 03/25/2024 12:17PM **Sample Matrix:** Aqueous **Location Desc:** Minnie Lovie Downstream

Test/Analyte	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
SEM_200.8_WW(EPA 200.8)								
Beryllium, Be	NQ 0.00816	µg/L	1	0.007	0.5	05/06/2024	2077729 MARTEAGA	J

Lab Sample#: 2412407-04 Sample Source: SPECIAL External ID:

Date Collected: 03/22/2024 10:46PM **Date Received:** 03/25/2024 12:17PM **Sample Matrix:** Aqueous **Location Desc:** Minnie Lovie Upstream

Test/Analyte	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
SEM_200.8_WW(EPA 200.8)								
Antimony, Sb	0.994	µg/L	1	0.09	0.5	05/01/2024	2077729 MARTEAGA	
Arsenic, As	DNQ 0.723	µg/L	1	0.07	2	05/01/2024	2077729 MARTEAGA	J
Barium, Ba	102	µg/L	1			05/01/2024	2077729 MARTEAGA	
Cadmium, Cd	0.4	µg/L	1	0.02	0.25	05/01/2024	2077729 MARTEAGA	
Chromium, Cr	4.62	µg/L	1	0.2	0.5	05/01/2024	2077729 MARTEAGA	
Cobalt, Co	1.24	µg/L	1			05/01/2024	2077729 MARTEAGA	
Copper, Cu	13.6	µg/L	1	0.8	0.5	05/01/2024	2077729 MARTEAGA	

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Scheduled Sample Date: 03/22/2024

Routine: UWPD_SPECIAL

Sampling Team:

Element	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Lead, Pb	6.85	µg/L	1	0.4	0.5	05/01/2024	2077729 MARTEAGA	
Manganese, Mn	50.8	µg/L	1			05/01/2024	2077729 MARTEAGA	
Molybdenum, Mo	0.383	µg/L	1			05/01/2024	2077729 MARTEAGA	
Nickel, Ni	4.65	µg/L	1	0.2	1	05/01/2024	2077729 MARTEAGA	
Selenium, Se	<0.4	µg/L	1	0.4	2	05/01/2024	2077729 MARTEAGA	
Silver, Ag	DNQ 0.0433	µg/L	1	0.03	0.25	05/01/2024	2077729 MARTEAGA	J
Thallium, Tl	<0.06	µg/L	1	0.06	1	05/01/2024	2077729 MARTEAGA	
Vanadium, V	6.56	µg/L	1			05/01/2024	2077729 MARTEAGA	
Zinc, Zn	596	µg/L	1	1.5	1	05/01/2024	2077729 MARTEAGA	

SEM_245.1_WW(EPA 245.1)	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Mercury, Hg	<0.09	µg/L	1	0.09	0.2	03/27/2024	2077683 GMAYS	

SEO_624(EPA 624.1)	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Dichlorodifluoromethane (F-12)	<0.18	µg/L	1	0.18	0.5	03/26/2024	2077579 BOKUMA	
Chloromethane	<0.19	µg/L	1	0.19	0.5	03/26/2024	2077579 BOKUMA	
Vinyl chloride	<0.12	µg/L	1	0.12	0.5	03/26/2024	2077579 BOKUMA	
Bromomethane	<0.22	µg/L	1	0.22	1	03/26/2024	2077579 BOKUMA	
Chloroethane	<0.1	µg/L	1	0.1	0.5	03/26/2024	2077579 BOKUMA	
Trichlorofluoromethane (F-11)	<0.14	µg/L	1	0.14	0.5	03/26/2024	2077579 BOKUMA	
1,1-Dichloroethylene	<0.11	µg/L	1	0.11	0.5	03/26/2024	2077579 BOKUMA	
Methylene chloride	<0.29	µg/L	1	0.29	0.5	03/26/2024	2077579 BOKUMA	
trans-1,2-Dichloroethylene	<0.057	µg/L	1	0.057	0.5	03/26/2024	2077579 BOKUMA	
Methyl t-butyl ether	<0.047	µg/L	1	0.047	0.5	03/26/2024	2077579 BOKUMA	
1,1-Dichloroethane	<0.048	µg/L	1	0.048	0.5	03/26/2024	2077579 BOKUMA	
Chloroform, THM	<0.048	µg/L	1	0.048	0.5	03/26/2024	2077579 BOKUMA	
1,2-Dichloroethane	<0.047	µg/L	1	0.047	0.5	03/26/2024	2077579 BOKUMA	
1,1,1-Trichloroethane	<0.062	µg/L	1	0.062	0.5	03/26/2024	2077579 BOKUMA	
Carbon tetrachloride	<0.11	µg/L	1	0.11	0.5	03/26/2024	2077579 BOKUMA	
Benzene	<0.051	µg/L	1	0.051	0.5	03/26/2024	2077579 BOKUMA	
1,2-Dichloropropane	<0.065	µg/L	1	0.065	0.5	03/26/2024	2077579 BOKUMA	
Trichloroethylene	<0.083	µg/L	1	0.083	0.5	03/26/2024	2077579 BOKUMA	
Bromodichloromethane, THM	<0.068	µg/L	1	0.068	0.5	03/26/2024	2077579 BOKUMA	
2-Chloroethyl vinyl ether	<0.25	µg/L	1	0.25	1	03/26/2024	2077579 BOKUMA	
cis-1,3-dichloropropene	<0.085	µg/L	1	0.085	0.5	03/26/2024	2077579 BOKUMA	
trans-1,3-Dichloropropene	<0.12	µg/L	1	0.12	0.5	03/26/2024	2077579 BOKUMA	
1,1,2-Trichloroethane	<0.043	µg/L	1	0.043	0.5	03/26/2024	2077579 BOKUMA	
Toluene	DNQ 0.2	µg/L	1	0.051	0.5	03/26/2024	2077579 BOKUMA	J
Dibromochloromethane, THM	<0.054	µg/L	1	0.054	0.5	03/26/2024	2077579 BOKUMA	
Tetrachloroethylene	<0.1	µg/L	1	0.1	0.5	03/26/2024	2077579 BOKUMA	
Chlorobenzene	<0.031	µg/L	1	0.031	0.5	03/26/2024	2077579 BOKUMA	
Ethylbenzene	<0.076	µg/L	1	0.076	0.5	03/26/2024	2077579 BOKUMA	

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Scheduled Sample Date: 03/22/2024

Routine: UWPD_SPECIAL

Sampling Team:

Compound	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#	Analyst	Flag/Comments
1,3(1,4)-dimethylbenzene	<0.061	µg/L	1	0.061	0.5	03/26/2024	2077579	BOKUMA	
Bromoform, THM	<0.09	µg/L	1	0.09	0.5	03/26/2024	2077579	BOKUMA	
1,1,2,2-Tetrachloroethane	<0.092	µg/L	1	0.092	0.5	03/26/2024	2077579	BOKUMA	
1,2-dimethylbenzene	<0.057	µg/L	1	0.057	0.5	03/26/2024	2077579	BOKUMA	
1,3-Dichlorobenzene	<0.07	µg/L	1	0.07	0.5	03/26/2024	2077579	BOKUMA	
1,4-Dichlorobenzene	<0.034	µg/L	1	0.034	0.5	03/26/2024	2077579	BOKUMA	
1,2-Dichlorobenzene	<0.05	µg/L	1	0.05	0.5	03/26/2024	2077579	BOKUMA	
Acrolein	<0.51	µg/L	1	0.51	2	03/26/2024	2077579	BOKUMA	H2
Acrylonitrile	<0.64	µg/L	1	0.64	2	03/26/2024	2077579	BOKUMA	
Surrogate(s)									
1,2-Dichloroethane-d4 (Surr.)	4.6	µg/L	1			03/26/2024	2077579	BOKUMA	
Toluene-d8 (Surr.)	4.2	µg/L	1			03/26/2024	2077579	BOKUMA	
1-Bromo-4-fluorobenzene (Surr.)	4.0	µg/L	1			03/26/2024	2077579	BOKUMA	

SEO_625(EPA 625.1)	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
N-nitroso-dimethylamine (NDMA)	<0.41	µg/L	1	0.41	5.1	04/05/2024	2078142 DALI	
Phenol	<0.28	µg/L	1	0.28	1	04/05/2024	2078142 DALI	
Bis-(2-chloroethyl)-ether	<0.44	µg/L	1	0.44	1	04/05/2024	2078142 DALI	
2-Chlorophenol	<0.81	µg/L	1	0.81	2	04/05/2024	2078142 DALI	
Bis-(2-chloroisopropyl)-ether	<1	µg/L	1	1	2	04/05/2024	2078142 DALI	
N-nitroso-di-n-propylamine (NDPA)	<1.1	µg/L	1	1.1	5.1	04/05/2024	2078142 DALI	
Hexachloroethane	<0.6	µg/L	1	0.6	1	04/05/2024	2078142 DALI	
Nitrobenzene	<0.46	µg/L	1	0.46	1	04/05/2024	2078142 DALI	
Isophorone	<0.43	µg/L	1	0.43	1	04/05/2024	2078142 DALI	
2-Nitrophenol	<1	µg/L	1	1	10	04/05/2024	2078142 DALI	
2,4-Dimethylphenol	<0.73	µg/L	1	0.73	1	04/05/2024	2078142 DALI	
Bis-(2-chloroethoxy)-methane	<1	µg/L	1	1	5.1	04/05/2024	2078142 DALI	
2,4-Dichlorophenol	<0.86	µg/L	1	0.86	1	04/05/2024	2078142 DALI	
1,2,4-Trichlorobenzene	<0.33	µg/L	1	0.33	1	04/05/2024	2078142 DALI	
Naphthalene	<0.0095	µg/L	1	0.0095	0.2	04/05/2024	2078142 DALI	
Hexachlorobutadiene	<0.65	µg/L	1	0.65	1	04/05/2024	2078142 DALI	
4-Chloro-3-methylphenol	<0.77	µg/L	1	0.77	1	04/05/2024	2078142 DALI	
Hexachlorocyclopentadiene	<0.56	µg/L	1	0.56	5.1	04/05/2024	2078142 DALI	
2,4,6-Trichlorophenol	<1.3	µg/L	1	1.3	10	04/05/2024	2078142 DALI	
2-Chloronaphthalene	<0.98	µg/L	1	0.98	10	04/05/2024	2078142 DALI	
Dimethyl phthalate	<1.3	µg/L	1	1.3	2	04/05/2024	2078142 DALI	
2,6-Dinitrotoluene	<0.8	µg/L	1	0.8	5.1	04/05/2024	2078142 DALI	
Acenaphthylene	<0.0082	µg/L	1	0.0082	0.2	04/05/2024	2078142 DALI	
Acenaphthene	<0.0093	µg/L	1	0.0093	0.51	04/05/2024	2078142 DALI	
2,4-Dinitrophenol	<1.3	µg/L	1	1.3	5.1	04/05/2024	2078142 DALI	
4-Nitrophenol	<0.24	µg/L	1	0.24	5.1	04/05/2024	2078142 DALI	
2,4-Dinitrotoluene	<0.72	µg/L	1	0.72	5.1	04/05/2024	2078142 DALI	

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Scheduled Sample Date: 03/22/2024

Routine: UWPD_SPECIAL

Sampling Team:

Compound Name	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Diethyl phthalate	<1.1	µg/L	1	1.1	2	04/05/2024	2078142 DALI	
Fluorene	<0.013	µg/L	1	0.013	0.1	04/05/2024	2078142 DALI	
4-Chlorophenyl phenyl ether	<1	µg/L	1	1	5.1	04/05/2024	2078142 DALI	
4,6-Dinitro-2-methylphenol	<0.91	µg/L	1	0.91	5.1	04/05/2024	2078142 DALI	
N-nitroso-diphenylamine	<0.35	µg/L	1	0.35	1	04/05/2024	2078142 DALI	
1,2-Diphenylhydrazine	<0.39	µg/L	1	0.39	1	04/05/2024	2078142 DALI	
4-Bromophenyl phenyl ether	<0.96	µg/L	1	0.96	5.1	04/05/2024	2078142 DALI	
Hexachlorobenzene	<0.3	µg/L	1	0.3	1	04/05/2024	2078142 DALI	
Pentachlorophenol	<0.71	µg/L	1	0.71	1	04/05/2024	2078142 DALI	
Phenanthrene	<0.0082	µg/L	1	0.0082	0.051	04/05/2024	2078142 DALI	
Anthracene	<0.0073	µg/L	1	0.0073	2	04/05/2024	2078142 DALI	
Di-n-butylphthalate	<0.67	µg/L	1	0.67	10	04/05/2024	2078142 DALI	
Fluoranthene	<0.009	µg/L	1	0.009	0.051	04/05/2024	2078142 DALI	
Benzidine	<1.4	µg/L	1	1.4	5.1	04/05/2024	2078142 DALI	
Pyrene	<0.01	µg/L	1	0.01	0.051	04/05/2024	2078142 DALI	
Butyl benzyl phthalate	<1.2	µg/L	1	1.2	10	04/05/2024	2078142 DALI	
Benzo[a]anthracene	<0.012	µg/L	1	0.012	5.1	04/05/2024	2078142 DALI	
3,3-Dichlorobenzidine	<0.71	µg/L	1	0.71	5.1	04/05/2024	2078142 DALI	
Chrysene	<0.011	µg/L	1	0.011	5.1	04/05/2024	2078142 DALI	
Bis-(2-ethylhexyl)-phthalate	<1.9	µg/L	1	1.9	5.1	04/05/2024	2078142 DALI	
Di-n-octyl phthalate	<0.62	µg/L	1	0.62	10	04/05/2024	2078142 DALI	
Benzo[b]fluoranthene	<0.0082	µg/L	1	0.0082	10	04/05/2024	2078142 DALI	
Benzo[k]fluoranthene	<0.012	µg/L	1	0.012	2	04/05/2024	2078142 DALI	
Benzo[a]pyrene	<0.011	µg/L	1	0.011	2	04/05/2024	2078142 DALI	
Indeno[1,2,3-cd]pyrene	<0.006	µg/L	1	0.006	0.051	04/05/2024	2078142 DALI	
Dibenzo-[a,h]-anthracene	<0.007	µg/L	1	0.007	0.1	04/05/2024	2078142 DALI	
Benzo[ghi]perylene	<0.0089	µg/L	1	0.0089	0.1	04/05/2024	2078142 DALI	
Surrogate(s)								
2-Fluorophenol (Surr.)	5	µg/L	1	0.001	0.001	04/05/2024	2078142 DALI	
Phenol-d6 (Surr.)	3.1	µg/L	1	0.001	0.001	04/05/2024	2078142 DALI	
Nitrobenzene-d5 (Surr.)	16	µg/L	1	0.001	0.001	04/05/2024	2078142 DALI	
2-Fluorobiphenyl (Surr.)	15	µg/L	1	0.001	0.001	04/05/2024	2078142 DALI	
2,4,6-Tribromophenol (Surr.)	13	µg/L	1	0.001	0.001	04/05/2024	2078142 DALI	
Terphenyl-d14 (Surr.)	14	µg/L	1	0.001	0.001	04/05/2024	2078142 DALI	

SEP_TDS(SM 2540 C)

Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Total Dissolved Solids	276	mg/L	1	24	03/27/2024	2077660 ISANJUAN	

SEP_TSS/TVSS(SM 2540 D/E)

Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Total Suspended Solids	70	mg/L	1	3	03/28/2024	2077724 NLY	

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Routine: UWPD_SPECIAL

Scheduled Sample Date: 03/22/2024

Sampling Team:

Lab Sample#: **2412407-04A** Sample Source: SPECIAL External ID:

Date Collected: 03/22/2024 10:46PM Date Received: 03/25/2024 12:17PM Sample Matrix: Aqueous Location Desc: Minnie Lovie Upstream

Test/Analyte

SEM_200.8_WW(EPA 200.8)	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Beryllium, Be	DNQ 0.0309	µg/L	1	0.007	0.5	05/06/2024	2077729 MARTEAGA	J

Lab Sample#: **2412407-06** Sample Source: QC_TRIP_BLANK External ID:

Date Collected: 03/22/2024 10:46PM Date Received: 03/25/2024 12:17PM Sample Matrix: Aqueous Location Desc:

Test/Analyte

SEO_624(EPA 624.1)	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Dichlorodifluoromethane (F-12)	<0.18	µg/L	1	0.18	0.5	03/25/2024	2077398 BOKUMA	
Chloromethane	<0.19	µg/L	1	0.19	0.5	03/25/2024	2077398 BOKUMA	
Vinyl chloride	<0.12	µg/L	1	0.12	0.5	03/25/2024	2077398 BOKUMA	
Bromomethane	<0.22	µg/L	1	0.22	1	03/25/2024	2077398 BOKUMA	
Chloroethane	<0.1	µg/L	1	0.1	0.5	03/25/2024	2077398 BOKUMA	
Trichlorofluoromethane (F-11)	<0.14	µg/L	1	0.14	0.5	03/25/2024	2077398 BOKUMA	
1,1-Dichloroethylene	<0.11	µg/L	1	0.11	0.5	03/25/2024	2077398 BOKUMA	
Methylene chloride	<0.29	µg/L	1	0.29	0.5	03/25/2024	2077398 BOKUMA	
trans-1,2-Dichloroethylene	<0.057	µg/L	1	0.057	0.5	03/25/2024	2077398 BOKUMA	
Methyl t-butyl ether	<0.047	µg/L	1	0.047	0.5	03/25/2024	2077398 BOKUMA	
1,1-Dichloroethane	<0.048	µg/L	1	0.048	0.5	03/25/2024	2077398 BOKUMA	
Chloroform, THM	<0.048	µg/L	1	0.048	0.5	03/25/2024	2077398 BOKUMA	
1,2-Dichloroethane	<0.047	µg/L	1	0.047	0.5	03/25/2024	2077398 BOKUMA	
1,1,1-Trichloroethane	<0.062	µg/L	1	0.062	0.5	03/25/2024	2077398 BOKUMA	
Carbon tetrachloride	<0.11	µg/L	1	0.11	0.5	03/25/2024	2077398 BOKUMA	
Benzene	<0.051	µg/L	1	0.051	0.5	03/25/2024	2077398 BOKUMA	
1,2-Dichloropropane	<0.065	µg/L	1	0.065	0.5	03/25/2024	2077398 BOKUMA	
Trichloroethylene	<0.083	µg/L	1	0.083	0.5	03/25/2024	2077398 BOKUMA	
Bromodichloromethane, THM	<0.068	µg/L	1	0.068	0.5	03/25/2024	2077398 BOKUMA	
2-Chloroethyl vinyl ether	<0.25	µg/L	1	0.25	1	03/25/2024	2077398 BOKUMA	
cis-1,3-dichloropropene	<0.085	µg/L	1	0.085	0.5	03/25/2024	2077398 BOKUMA	
trans-1,3-Dichloropropene	<0.12	µg/L	1	0.12	0.5	03/25/2024	2077398 BOKUMA	
1,1,2-Trichloroethane	<0.043	µg/L	1	0.043	0.5	03/25/2024	2077398 BOKUMA	
Toluene	<0.051	µg/L	1	0.051	0.5	03/25/2024	2077398 BOKUMA	
Dibromochloromethane, THM	<0.054	µg/L	1	0.054	0.5	03/25/2024	2077398 BOKUMA	
Tetrachloroethylene	<0.1	µg/L	1	0.1	0.5	03/25/2024	2077398 BOKUMA	
Chlorobenzene	<0.031	µg/L	1	0.031	0.5	03/25/2024	2077398 BOKUMA	
Ethylbenzene	<0.076	µg/L	1	0.076	0.5	03/25/2024	2077398 BOKUMA	
1,3(1,4)-dimethylbenzene	<0.061	µg/L	1	0.061	0.5	03/25/2024	2077398 BOKUMA	
Bromoform, THM	<0.09	µg/L	1	0.09	0.5	03/25/2024	2077398 BOKUMA	
1,1,2,2-Tetrachloroethane	<0.092	µg/L	1	0.092	0.5	03/25/2024	2077398 BOKUMA	
1,2-dimethylbenzene	<0.057	µg/L	1	0.057	0.5	03/25/2024	2077398 BOKUMA	

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Scheduled Sample Date: 03/22/2024

Routine: UWPD_SPECIAL

Sampling Team:

1,3-Dichlorobenzene	<0.07	µg/L	1	0.07	0.5	03/25/2024	2077398	BOKUMA
1,4-Dichlorobenzene	<0.034	µg/L	1	0.034	0.5	03/25/2024	2077398	BOKUMA
1,2-Dichlorobenzene	<0.05	µg/L	1	0.05	0.5	03/25/2024	2077398	BOKUMA
Acrolein	<0.51	µg/L	1	0.51	2	03/25/2024	2077398	BOKUMA
Acrylonitrile	<0.64	µg/L	1	0.64	2	03/25/2024	2077398	BOKUMA
Surrogate(s)								
1,2-Dichloroethane-d4 (Surr.)	4.4	µg/L	1			03/25/2024	2077398	BOKUMA
Toluene-d8 (Surr.)	4.1	µg/L	1			03/25/2024	2077398	BOKUMA
1-Bromo-4-fluorobenzene (Surr.)	3.8	µg/L	1			03/25/2024	2077398	BOKUMA

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Routine: UWPD_SPECIAL

Scheduled Sample Date: 03/22/2024

Sampling Team:

QC list for Run#: 2077398 and Test: SEO_624 (EPA 624.1)

Sample #	Name	Analyte	Result		Units	% Rec	RPD	MDL	MRL	Flag/Comments
			Parent	Current						
QC2425225-01	BLK	Dichlorodifluoromethane (F-12)	<0.18		µg/L			0.18	0.5	
	BLK	Chloromethane	<0.19		µg/L			0.19	0.5	
	BLK	Vinyl chloride	<0.12		µg/L			0.12	0.5	
	BLK	Bromomethane	<0.22		µg/L			0.22	1	
	BLK	Chloroethane	<0.1		µg/L			0.1	0.5	
	BLK	Trichlorofluoromethane (F-11)	<0.14		µg/L			0.14	0.5	
	BLK	1,1-Dichloroethylene	<0.11		µg/L			0.11	0.5	
	BLK	Methylene chloride	<0.29		µg/L			0.29	0.5	
	BLK	trans-1,2-Dichloroethylene	<0.057		µg/L			0.057	0.5	
	BLK	Methyl t-butyl ether	<0.047		µg/L			0.047	0.5	
	BLK	1,1-Dichloroethane	<0.048		µg/L			0.048	0.5	
	BLK	Chloroform, THM	<0.048		µg/L			0.048	0.5	
	BLK	1,2-Dichloroethane	<0.047		µg/L			0.047	0.5	
	BLK	1,1,1-Trichloroethane	<0.062		µg/L			0.062	0.5	
	BLK	Carbon tetrachloride	<0.11		µg/L			0.11	0.5	
	BLK	Benzene	<0.051		µg/L			0.051	0.5	
	BLK	1,2-Dichloropropane	<0.065		µg/L			0.065	0.5	
	BLK	Trichloroethylene	<0.083		µg/L			0.083	0.5	
	BLK	Bromodichloromethane, THM	<0.068		µg/L			0.068	0.5	
	BLK	2-Chloroethyl vinyl ether	<0.25		µg/L			0.25	1	
	BLK	cis-1,3-dichloropropene	<0.085		µg/L			0.085	0.5	
	BLK	trans-1,3-Dichloropropene	<0.12		µg/L			0.12	0.5	
	BLK	1,1,2-Trichloroethane	<0.043		µg/L			0.043	0.5	
	BLK	Toluene	<0.051		µg/L			0.051	0.5	
	BLK	Dibromochloromethane, THM	<0.054		µg/L			0.054	0.5	
	BLK	Tetrachloroethylene	<0.1		µg/L			0.1	0.5	
	BLK	Chlorobenzene	<0.031		µg/L			0.031	0.5	
	BLK	Ethylbenzene	<0.076		µg/L			0.076	0.5	
	BLK	1,3(1,4)-dimethylbenzene	<0.061		µg/L			0.061	0.5	
	BLK	Bromoform, THM	<0.09		µg/L			0.09	0.5	
	BLK	1,1,2,2-Tetrachloroethane	<0.092		µg/L			0.092	0.5	
	BLK	1,2-dimethylbenzene	<0.057		µg/L			0.057	0.5	
	BLK	1,3-Dichlorobenzene	<0.07		µg/L			0.07	0.5	
	BLK	1,4-Dichlorobenzene	<0.034		µg/L			0.034	0.5	
	BLK	1,2-Dichlorobenzene	<0.05		µg/L			0.05	0.5	
	BLK	Acrolein	<0.51		µg/L			0.51	2	
	BLK	Acrylonitrile	<0.64		µg/L			0.64	2	
Surrogate(s)	BLK	1,2-Dichloroethane-d4 (Surr.)	4.6		µg/L	116		2	0.5	

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Scheduled Sample Date: 03/22/2024

Routine: UWPD_SPECIAL

Sampling Team:

QC list for Run#: 2077398 and Test: SEO_624 (EPA 624.1)

Sample #	Name	Analyte	Result		Units	% Rec	RPD	MDL	MRL	Flag/Comments
			Parent	Current						
Surrogate(s)	BLK	Toluene-d8 (Surr.)		4.2	µg/L	106		2	0.5	
Surrogate(s)	BLK	1-Bromo-4-fluorobenzene (Surr.)		3.8	µg/L	96		2	0.5	
QC2425225-02	LCS	Dichlorodifluoromethane (F-12)		5.2	µg/L	104			0.5	
	LCS	Chloromethane		4.7	µg/L	93			0.5	
	LCS	Vinyl chloride		5	µg/L	99			0.5	
	LCS	Bromomethane		5.6	µg/L	112			1	
	LCS	Chloroethane		5.4	µg/L	108			0.5	
	LCS	Trichlorofluoromethane (F-11)		4.8	µg/L	97			0.5	
	LCS	1,1-Dichloroethylene		4.9	µg/L	99			0.5	
	LCS	Methylene chloride		4.9	µg/L	97			0.5	
	LCS	trans-1,2-Dichloroethylene		4.9	µg/L	98			0.5	
	LCS	Methyl t-butyl ether		5	µg/L	99			0.5	
	LCS	1,1-Dichloroethane		5.4	µg/L	107			0.5	
	LCS	Chloroform, THM		5.2	µg/L	105			0.5	
	LCS	1,2-Dichloroethane		5.3	µg/L	107			0.5	
	LCS	1,1,1-Trichloroethane		5.5	µg/L	109			0.5	
	LCS	Carbon tetrachloride		5.4	µg/L	107			0.5	
	LCS	Benzene		5.2	µg/L	103			0.5	
	LCS	1,2-Dichloropropane		5.4	µg/L	108			0.5	
	LCS	Trichloroethylene		4.9	µg/L	98			0.5	
	LCS	Bromodichloromethane, THM		5.3	µg/L	107			0.5	
	LCS	2-Chloroethyl vinyl ether		5.7	µg/L	115			1	
	LCS	cis-1,3-dichloropropene		5.4	µg/L	108			0.5	
	LCS	trans-1,3-Dichloropropene		5.5	µg/L	111			0.5	
	LCS	1,1,2-Trichloroethane		4.9	µg/L	98			0.5	
	LCS	Toluene		5	µg/L	100			0.5	
	LCS	Dibromochloromethane, THM		5.1	µg/L	102			0.5	
	LCS	Tetrachloroethylene		4.9	µg/L	98			0.5	
	LCS	Chlorobenzene		4.9	µg/L	99			0.5	
	LCS	Ethylbenzene		5	µg/L	101			0.5	
	LCS	1,3(1,4)-dimethylbenzene		9.2	µg/L	91			0.5	
	LCS	Bromoform, THM		5.2	µg/L	104			0.5	
	LCS	1,1,2,2-Tetrachloroethane		5.3	µg/L	107			0.5	
	LCS	1,2-dimethylbenzene		4.7	µg/L	94			0.5	
	LCS	1,3-Dichlorobenzene		5	µg/L	100			0.5	
	LCS	1,4-Dichlorobenzene		5	µg/L	99			0.5	
	LCS	1,2-Dichlorobenzene		5	µg/L	102			0.5	
Surrogate(s)	LCS	1,2-Dichloroethane-d4 (Surr.)		4.5	µg/L	112			0.5	

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Routine: UWPD_SPECIAL

Scheduled Sample Date: 03/22/2024

Sampling Team:

QC list for Run#: 2077398 and Test: SEO_624 (EPA 624.1)

Sample #	Name	Analyte	Result		Units	% Rec	RPD	MDL	MRL	Flag/Comments
			Parent	Current						
Surrogate(s)	LCS	Toluene-d8 (Surr.)		4.2	µg/L	105			0.5	
Surrogate(s)	LCS	1-Bromo-4-fluorobenzene (Surr.)		4.3	µg/L	107			0.5	
QC2425225-03										
	LCSD of QC2425225-02	Dichlorodifluoromethane (F-12)	5.2	5.3	µg/L	106	2		0.5	Split# QC2425225-02 (5.2µg/L)
	LCSD of QC2425225-02	Chloromethane	4.7	5	µg/L	99	6		0.5	Split# QC2425225-02 (4.7µg/L)
	LCSD of QC2425225-02	Vinyl chloride	5	4.9	µg/L	98	1		0.5	Split# QC2425225-02 (5µg/L)
	LCSD of QC2425225-02	Bromomethane	5.6	5.6	µg/L	113	0		1	Split# QC2425225-02 (5.6µg/L)
	LCSD of QC2425225-02	Chloroethane	5.4	5.5	µg/L	111	2		0.5	Split# QC2425225-02 (5.4µg/L)
	LCSD of QC2425225-02	Trichlorofluoromethane (F-11)	4.8	4.8	µg/L	97	0		0.5	Split# QC2425225-02 (4.8µg/L)
	LCSD of QC2425225-02	1,1-Dichloroethylene	4.9	5	µg/L	101	2		0.5	Split# QC2425225-02 (4.9µg/L)
	LCSD of QC2425225-02	Methylene chloride	4.9	5	µg/L	99	1		0.5	Split# QC2425225-02 (4.9µg/L)
	LCSD of QC2425225-02	trans-1,2-Dichloroethylene	4.9	4.9	µg/L	98	0		0.5	Split# QC2425225-02 (4.9µg/L)
	LCSD of QC2425225-02	Methyl t-butyl ether	5	4.8	µg/L	96	2		0.5	Split# QC2425225-02 (5µg/L)
	LCSD of QC2425225-02	1,1-Dichloroethane	5.4	5.3	µg/L	106	1		0.5	Split# QC2425225-02 (5.4µg/L)
	LCSD of QC2425225-02	Chloroform, THM	5.2	5.1	µg/L	103	1		0.5	Split# QC2425225-02 (5.2µg/L)
	LCSD of QC2425225-02	1,2-Dichloroethane	5.3	5.3	µg/L	106	0		0.5	Split# QC2425225-02 (5.3µg/L)
	LCSD of QC2425225-02	1,1,1-Trichloroethane	5.5	5.4	µg/L	107	1		0.5	Split# QC2425225-02 (5.5µg/L)
	LCSD of QC2425225-02	Carbon tetrachloride	5.4	5.2	µg/L	104	2		0.5	Split# QC2425225-02 (5.4µg/L)
	LCSD of QC2425225-02	Benzene	5.2	5.1	µg/L	101	2		0.5	Split# QC2425225-02 (5.2µg/L)
	LCSD of QC2425225-02	1,2-Dichloropropane	5.4	5.2	µg/L	105	2		0.5	Split# QC2425225-02 (5.4µg/L)
	LCSD of QC2425225-02	Trichloroethylene	4.9	4.9	µg/L	97	1		0.5	Split# QC2425225-02 (4.9µg/L)
	LCSD of QC2425225-02	Bromodichloromethane, THM	5.3	5.2	µg/L	106	1		0.5	Split# QC2425225-02 (5.3µg/L)
	LCSD of QC2425225-02	2-Chloroethyl vinyl ether	5.7	5.8	µg/L	116	1		1	Split# QC2425225-02 (5.7µg/L)
	LCSD of QC2425225-02	cis-1,3-dichloropropene	5.4	5.3	µg/L	106	1		0.5	Split# QC2425225-02 (5.4µg/L)
	LCSD of QC2425225-02	trans-1,3-Dichloropropene	5.5	5.7	µg/L	113	2		0.5	Split# QC2425225-02 (5.5µg/L)
	LCSD of QC2425225-02	1,1,2-Trichloroethane	4.9	5	µg/L	99	1		0.5	Split# QC2425225-02 (4.9µg/L)
	LCSD of QC2425225-02	Toluene	5	5	µg/L	101	0		0.5	Split# QC2425225-02 (5µg/L)
	LCSD of QC2425225-02	Dibromochloromethane, THM	5.1	5	µg/L	100	1		0.5	Split# QC2425225-02 (5.1µg/L)
	LCSD of QC2425225-02	Tetrachloroethylene	4.9	4.8	µg/L	96	2		0.5	Split# QC2425225-02 (4.9µg/L)

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Scheduled Sample Date: 03/22/2024

Routine: UWPD_SPECIAL

Sampling Team:

QC list for Run#: 2077398 and Test: SEO_624 (EPA 624.1)

Sample #	Name	Analyte	Result		Units	% Rec	RPD	MDL	MRL	Flag/Comments
			Parent	Current						
LCSD of QC2425225-02		Chlorobenzene	4.9	4.8	µg/L	96	2	0.5		Splt# QC2425225-02 (4.9µg/L)
LCSD of QC2425225-02		Ethylbenzene	5	4.8	µg/L	97	3	0.5		Splt# QC2425225-02 (5µg/L)
LCSD of QC2425225-02		1,3(1,4)-dimethylbenzene	9.2	9	µg/L	90	1	0.5		Splt# QC2425225-02 (9.2µg/L)
LCSD of QC2425225-02		Bromoform, THM	5.2	5.3	µg/L	106	1	0.5		Splt# QC2425225-02 (5.2µg/L)
LCSD of QC2425225-02		1,1,2,2-Tetrachloroethane	5.3	5.1	µg/L	103	4	0.5		Splt# QC2425225-02 (5.3µg/L)
LCSD of QC2425225-02		1,2-dimethylbenzene	4.7	4.6	µg/L	92	1	0.5		Splt# QC2425225-02 (4.7µg/L)
LCSD of QC2425225-02		1,3-Dichlorobenzene	5	4.9	µg/L	97	3	0.5		Splt# QC2425225-02 (5µg/L)
LCSD of QC2425225-02		1,4-Dichlorobenzene	5	4.9	µg/L	98	0	0.5		Splt# QC2425225-02 (5µg/L)
LCSD of QC2425225-02		1,2-Dichlorobenzene	5	5	µg/L	102	0	0.5		Splt# QC2425225-02 (5µg/L)
Surrogate(s)		1,2-Dichloroethane-d4 (Surr.)	4.5	4.4	µg/L	110	1	0.5		Splt# QC2425225-02 (4.5µg/L)
Surrogate(s)		Toluene-d8 (Surr.)	4.2	4.3	µg/L	107	2	0.5		Splt# QC2425225-02 (4.2µg/L)
Surrogate(s)		1-Bromo-4-fluorobenzene (Surr.)	4.3	4.3	µg/L	107	0	0.5		Splt# QC2425225-02 (4.3µg/L)
QC2425225-04	LCS	Acrolein		19	µg/L	96		2		
	LCS	Acrylonitrile		14	µg/L	72		2		
Surrogate(s)	LCS	1,2-Dichloroethane-d4 (Surr.)		4.1	µg/L	101		0.5		
QC2425225-05	LCSD of QC2425225-04	Acrolein	19	20	µg/L	100	3	2		Splt# QC2425225-04 (19µg/L)
	LCSD of QC2425225-04	Acrylonitrile	14	15	µg/L	72	0	2		Splt# QC2425225-04 (14µg/L)
Surrogate(s)		1,2-Dichloroethane-d4 (Surr.)	4.1	4.1	µg/L	103	1	0.5		Splt# QC2425225-04 (4.1µg/L)

QC list for Run#: 2077579 and Test: SEO_624 (EPA 624.1)

Sample #	Name	Analyte	Result		Units	% Rec	RPD	MDL	MRL	Flag/Comments
			Parent	Current						
QC2425360-01	BLK	Dichlorodifluoromethane (F-12)		<0.18	µg/L			0.18	0.5	
	BLK	Chloromethane		<0.19	µg/L			0.19	0.5	
	BLK	Vinyl chloride		<0.12	µg/L			0.12	0.5	
	BLK	Bromomethane		<0.22	µg/L			0.22	1	
	BLK	Chloroethane		<0.1	µg/L			0.1	0.5	
	BLK	Trichlorofluoromethane (F-11)		<0.14	µg/L			0.14	0.5	
	BLK	1,1-Dichloroethylene		<0.11	µg/L			0.11	0.5	
	BLK	Methylene chloride		<0.29	µg/L			0.29	0.5	
	BLK	trans-1,2-Dichloroethylene		<0.057	µg/L			0.057	0.5	
	BLK	Methyl t-butyl ether		<0.047	µg/L			0.047	0.5	
	BLK	1,1-Dichloroethane		<0.048	µg/L			0.048	0.5	

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Routine: UWPD_SPECIAL

Scheduled Sample Date: 03/22/2024

Sampling Team:

QC list for Run#: 2077579 and Test: SEO_624 (EPA 624.1)

Sample #	Name	Analyte	Result		Units	% Rec	RPD	MDL	MRL	Flag/Comments
			Parent	Current						
BLK		Chloroform, THM		<0.048	µg/L			0.048	0.5	
BLK		1,2-Dichloroethane		<0.047	µg/L			0.047	0.5	
BLK		1,1,1-Trichloroethane		<0.062	µg/L			0.062	0.5	
BLK		Carbon tetrachloride		<0.11	µg/L			0.11	0.5	
BLK		Benzene		<0.051	µg/L			0.051	0.5	
BLK		1,2-Dichloropropane		<0.065	µg/L			0.065	0.5	
BLK		Trichloroethylene		<0.083	µg/L			0.083	0.5	
BLK		Bromodichloromethane, THM		<0.068	µg/L			0.068	0.5	
BLK		2-Chloroethyl vinyl ether		<0.25	µg/L			0.25	1	
BLK		cis-1,3-dichloropropene		<0.085	µg/L			0.085	0.5	
BLK		trans-1,3-Dichloropropene		<0.12	µg/L			0.12	0.5	
BLK		1,1,2-Trichloroethane		<0.043	µg/L			0.043	0.5	
BLK		Toluene		<0.051	µg/L			0.051	0.5	
BLK		Dibromochloromethane, THM		<0.054	µg/L			0.054	0.5	
BLK		Tetrachloroethylene		<0.1	µg/L			0.1	0.5	
BLK		Chlorobenzene		<0.031	µg/L			0.031	0.5	
BLK		Ethylbenzene		<0.076	µg/L			0.076	0.5	
BLK		1,3(1,4)-dimethylbenzene		<0.061	µg/L			0.061	0.5	
BLK		Bromoform, THM		<0.09	µg/L			0.09	0.5	
BLK		1,1,2,2-Tetrachloroethane		<0.092	µg/L			0.092	0.5	
BLK		1,2-dimethylbenzene		<0.057	µg/L			0.057	0.5	
BLK		1,3-Dichlorobenzene		<0.07	µg/L			0.07	0.5	
BLK		1,4-Dichlorobenzene		<0.034	µg/L			0.034	0.5	
BLK		1,2-Dichlorobenzene		<0.05	µg/L			0.05	0.5	
BLK		Acrolein		<0.51	µg/L			0.51	2	
BLK		Acrylonitrile		<0.64	µg/L			0.64	2	
Surrogate(s)	BLK	1,2-Dichloroethane-d4 (Surr.)		4.4	µg/L	111		2	0.5	
Surrogate(s)	BLK	Toluene-d8 (Surr.)		4.1	µg/L	102		2	0.5	
Surrogate(s)	BLK	1-Bromo-4-fluorobenzene (Surr.)		3.9	µg/L	97		2	0.5	
QC2425360-02	LCS	Dichlorodifluoromethane (F-12)		5.4	µg/L	108			0.5	
	LCS	Chloromethane		4.9	µg/L	98			0.5	
	LCS	Vinyl chloride		5.2	µg/L	105			0.5	
	LCS	Bromomethane		6.1	µg/L	123			1	
	LCS	Chloroethane		5.7	µg/L	114			0.5	
	LCS	Trichlorofluoromethane (F-11)		5.2	µg/L	105			0.5	
	LCS	1,1-Dichloroethylene		5.2	µg/L	105			0.5	
	LCS	Methylene chloride		5.4	µg/L	107			0.5	
	LCS	trans-1,2-Dichloroethylene		5.3	µg/L	106			0.5	

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Routine: UWPD_SPECIAL

Scheduled Sample Date: 03/22/2024

Sampling Team:

QC list for Run#: 2077579 and Test: SEO_624 (EPA 624.1)

Sample #	Name	Analyte	Result		Units	% Rec	RPD	MDL	MRL	Flag/Comments
			Parent	Current						
LCS		Methyl t-butyl ether		5.1	µg/L	103			0.5	
LCS		1,1-Dichloroethane		5.7	µg/L	113			0.5	
LCS		Chloroform, THM		5.5	µg/L	111			0.5	
LCS		1,2-Dichloroethane		5.7	µg/L	114			0.5	
LCS		1,1,1-Trichloroethane		5.8	µg/L	115			0.5	
LCS		Carbon tetrachloride		5.6	µg/L	111			0.5	
LCS		Benzene		5.5	µg/L	110			0.5	
LCS		1,2-Dichloropropane		5.6	µg/L	112			0.5	
LCS		Trichloroethylene		5.1	µg/L	101			0.5	
LCS		Bromodichloromethane, THM		5.6	µg/L	113			0.5	
LCS		2-Chloroethyl vinyl ether		5.7	µg/L	114			1	
LCS		cis-1,3-dichloropropene		5.4	µg/L	108			0.5	
LCS		trans-1,3-Dichloropropene		5.4	µg/L	109			0.5	
LCS		1,1,2-Trichloroethane		5.3	µg/L	106			0.5	
LCS		Toluene		5.3	µg/L	105			0.5	
LCS		Dibromochloromethane, THM		5.2	µg/L	104			0.5	
LCS		Tetrachloroethylene		4.8	µg/L	96			0.5	
LCS		Chlorobenzene		5	µg/L	99			0.5	
LCS		Ethylbenzene		5.1	µg/L	102			0.5	
LCS		1,3(1,4)-dimethylbenzene		9.2	µg/L	92			0.5	
LCS		Bromoform, THM		5.2	µg/L	105			0.5	
LCS		1,1,2,2-Tetrachloroethane		5.5	µg/L	112			0.5	
LCS		1,2-dimethylbenzene		4.8	µg/L	97			0.5	
LCS		1,3-Dichlorobenzene		5.2	µg/L	103			0.5	
LCS		1,4-Dichlorobenzene		5.1	µg/L	102			0.5	
LCS		1,2-Dichlorobenzene		5.2	µg/L	106			0.5	
Surrogate(s)	LCS	1,2-Dichloroethane-d4 (Surr.)		4.5	µg/L	112			0.5	
Surrogate(s)	LCS	Toluene-d8 (Surr.)		4.3	µg/L	107			0.5	
Surrogate(s)	LCS	1-Bromo-4-fluorobenzene (Surr.)		4.2	µg/L	106			0.5	
QC2425360-03										
LCS	LCS	Dichlorodifluoromethane (F-12)	5.4	5.3	µg/L	107	0		0.5	Split# QC2425360-02 (5.4µg/L)
LCS	LCS	Chloromethane	4.9	5.3	µg/L	106	7		0.5	Split# QC2425360-02 (4.9µg/L)
LCS	LCS	Vinyl chloride	5.2	5.3	µg/L	106	0		0.5	Split# QC2425360-02 (5.2µg/L)
LCS	LCS	Bromomethane	6.1	5.8	µg/L	116	5		1	Split# QC2425360-02 (6.1µg/L)
LCS	LCS	Chloroethane	5.7	5.8	µg/L	116	1		0.5	Split# QC2425360-02 (5.7µg/L)
LCS	LCS	Trichlorofluoromethane (F-11)	5.2	5.2	µg/L	105	0		0.5	Split# QC2425360-02 (5.2µg/L)

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Routine: UWPD_SPECIAL

Scheduled Sample Date: 03/22/2024

Sampling Team:

QC list for Run#: 2077579 and Test: SEO_624 (EPA 624.1)

Sample #	Name	Analyte	Result		Units	% Rec	RPD	MDL	MRL	Flag/Comments
			Parent	Current						
LCSD of QC2425360-02		1,1-Dichloroethylene	5.2	5.5	µg/L	111	5	0.5	Splt# QC2425360-02 (5.2µg/L)	
LCSD of QC2425360-02		Methylene chloride	5.4	5.4	µg/L	107	0	0.5	Splt# QC2425360-02 (5.4µg/L)	
LCSD of QC2425360-02		trans-1,2-Dichloroethylene	5.3	5.2	µg/L	105	1	0.5	Splt# QC2425360-02 (5.3µg/L)	
LCSD of QC2425360-02		Methyl t-butyl ether	5.1	4.9	µg/L	98	4	0.5	Splt# QC2425360-02 (5.1µg/L)	
LCSD of QC2425360-02		1,1-Dichloroethane	5.7	5.6	µg/L	113	0	0.5	Splt# QC2425360-02 (5.7µg/L)	
LCSD of QC2425360-02		Chloroform, THM	5.5	5.3	µg/L	107	4	0.5	Splt# QC2425360-02 (5.5µg/L)	
LCSD of QC2425360-02		1,2-Dichloroethane	5.7	5.6	µg/L	112	1	0.5	Splt# QC2425360-02 (5.7µg/L)	
LCSD of QC2425360-02		1,1,1-Trichloroethane	5.8	5.6	µg/L	112	2	0.5	Splt# QC2425360-02 (5.8µg/L)	
LCSD of QC2425360-02		Carbon tetrachloride	5.6	5.5	µg/L	110	0	0.5	Splt# QC2425360-02 (5.6µg/L)	
LCSD of QC2425360-02		Benzene	5.5	5.5	µg/L	110	0	0.5	Splt# QC2425360-02 (5.5µg/L)	
LCSD of QC2425360-02		1,2-Dichloropropane	5.6	5.7	µg/L	115	2	0.5	Splt# QC2425360-02 (5.6µg/L)	
LCSD of QC2425360-02		Trichloroethylene	5.1	5.2	µg/L	104	3	0.5	Splt# QC2425360-02 (5.1µg/L)	
LCSD of QC2425360-02		Bromodichloromethane, THM	5.6	5.5	µg/L	112	0	0.5	Splt# QC2425360-02 (5.6µg/L)	
LCSD of QC2425360-02		2-Chloroethyl vinyl ether	5.7	6	µg/L	120	5	1	Splt# QC2425360-02 (5.7µg/L)	
LCSD of QC2425360-02		cis-1,3-dichloropropene	5.4	5.6	µg/L	112	3	0.5	Splt# QC2425360-02 (5.4µg/L)	
LCSD of QC2425360-02		trans-1,3-Dichloropropene	5.4	5.6	µg/L	113	4	0.5	Splt# QC2425360-02 (5.4µg/L)	
LCSD of QC2425360-02		1,1,2-Trichloroethane	5.3	5.3	µg/L	107	0	0.5	Splt# QC2425360-02 (5.3µg/L)	
LCSD of QC2425360-02		Toluene	5.3	5.4	µg/L	107	1	0.5	Splt# QC2425360-02 (5.3µg/L)	
LCSD of QC2425360-02		Dibromochloromethane, THM	5.2	5.3	µg/L	105	1	0.5	Splt# QC2425360-02 (5.2µg/L)	
LCSD of QC2425360-02		Tetrachloroethylene	4.8	5.1	µg/L	102	6	0.5	Splt# QC2425360-02 (4.8µg/L)	
LCSD of QC2425360-02		Chlorobenzene	5	5.2	µg/L	105	4	0.5	Splt# QC2425360-02 (5µg/L)	
LCSD of QC2425360-02		Ethylbenzene	5.1	5.1	µg/L	103	0	0.5	Splt# QC2425360-02 (5.1µg/L)	
LCSD of QC2425360-02		1,3(1,4)-dimethylbenzene	9.2	9.8	µg/L	97	5	0.5	Splt# QC2425360-02 (9.2µg/L)	
LCSD of QC2425360-02		Bromoform, THM	5.2	5.2	µg/L	105	0	0.5	Splt# QC2425360-02 (5.2µg/L)	
LCSD of QC2425360-02		1,1,2,2-Tetrachloroethane	5.5	5.3	µg/L	107	5	0.5	Splt# QC2425360-02 (5.5µg/L)	
LCSD of QC2425360-02		1,2-dimethylbenzene	4.8	4.9	µg/L	98	1	0.5	Splt# QC2425360-02 (4.8µg/L)	
LCSD of QC2425360-02		1,3-Dichlorobenzene	5.2	5.1	µg/L	101	1	0.5	Splt# QC2425360-02 (5.2µg/L)	

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Routine: UWPD_SPECIAL

Scheduled Sample Date: 03/22/2024

Sampling Team:

QC list for Run#: 2077579 and Test: SEO_624 (EPA 624.1)

Sample #	Name	Analyte	Result		Units	% Rec	RPD	MDL	MRL	Flag/Comments
			Parent	Current						
	LCS of QC2425360-02	1,4-Dichlorobenzene	5.1	5.1	µg/L	101	0		0.5	Splt# QC2425360-02 (5.1µg/L)
	LCS of QC2425360-02	1,2-Dichlorobenzene	5.2	5.1	µg/L	103	2		0.5	Splt# QC2425360-02 (5.2µg/L)
Surrogate(s)		1,2-Dichloroethane-d4 (Surr.)	4.5	4.3	µg/L	107	4		0.5	Splt# QC2425360-02 (4.5µg/L)
Surrogate(s)		Toluene-d8 (Surr.)	4.3	4.2	µg/L	105	1		0.5	Splt# QC2425360-02 (4.3µg/L)
Surrogate(s)		1-Bromo-4-fluorobenzene (Surr.)	4.2	4.2	µg/L	106	0		0.5	Splt# QC2425360-02 (4.2µg/L)
QC2425360-04	LCS	Acrolein		20	µg/L	102			2	
	LCS	Acrylonitrile		16	µg/L	79			2	
Surrogate(s)	LCS	1,2-Dichloroethane-d4 (Surr.)		4.1	µg/L	103			0.5	
QC2425360-05	LCS of QC2425360-04	Acrolein	20	19	µg/L	93	8		2	Splt# QC2425360-04 (20µg/L)
	LCS of QC2425360-04	Acrylonitrile	16	15	µg/L	73	7		2	Splt# QC2425360-04 (16µg/L)
Surrogate(s)		1,2-Dichloroethane-d4 (Surr.)	4.1	4.1	µg/L	102	9		0.5	Splt# QC2425360-04 (4.1µg/L)

QC list for Run#: 2077660 and Test: SEP_TDS (SM 2540 C)

Sample #	Name	Analyte	Result		Units	% Rec	RPD	MDL	MRL	Flag/Comments
			Parent	Current						
QC2425414-03	BLK	Total Dissolved Solids		<24	mg/L			24		
QC2425414-04	LCS	Total Dissolved Solids		882	mg/L	98		24		
QC2425414-05	DUP of 2412407-01	Total Dissolved Solids	351	367	mg/L		4	24		Splt# 2412407-01 (351mg/L)

QC list for Run#: 2077683 and Test: SEM_245.1_WW (EPA 245.1)

Sample #	Name	Analyte	Result		Units	% Rec	RPD	MDL	MRL	Flag/Comments
			Parent	Current						
QC2425393-01	BLK	Mercury, Hg		<0.09	µg/L			0.09	0.2	
QC2425393-02	LCS	Mercury, Hg		26.5	µg/L	106		0.2	0.2	
QC2425393-03	DUP of 2403207875	Mercury, Hg	<0.09	DNQ 0.0919	µg/L		N/A	0.09	0.2	Splt# 2403207875 (<0.09µg/L) J
QC2425393-04	SPK of 2403207875	Mercury, Hg	<0.09	25.7	µg/L	103		0.05	0.2	Splt# 2403207875 (<0.09µg/L)
QC2425393-05	SPKD of 2403207875	Mercury, Hg	<0.09	25.3	µg/L	101	1	0.05	0.2	Splt# 2403207875 (<0.09µg/L)
QC2425393-07	ICV	Mercury, Hg		5.47	µg/L	109		0.05	0.2	

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Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Scheduled Sample Date: 03/22/2024

Routine: UWPD_SPECIAL

Sampling Team:

QC list for Run#: 2077724 and Test: SEP_TSS/TVSS (SM 2540 D/E)

Sample #	Name	Analyte	Result		Units	% Rec	RPD	MDL	MRL	Flag/Comments
			Parent	Current						
QC2425456-03	BLK	Total Suspended Solids		<3	mg/L			3		
QC2425456-04	LCS	Total Suspended Solids		102	mg/L	102		3		
QC2425456-05	DUP of 2412846-02	Total Suspended Solids	1880	1900	mg/L		1	3		Split# 2412846-02 (1880mg/L)

QC list for Run#: 2077729 and Test: SEM_200.8_WW (EPA 200.8)

Sample #	Name	Analyte	Result		Units	% Rec	RPD	MDL	MRL	Flag/Comments
			Parent	Current						
QC2425417-01	BLK	Antimony, Sb		<0.09	µg/L			0.09	0.5	
	BLK	Arsenic, As		<0.07	µg/L			0.07	2	
	BLK	Barium, Ba		<0	µg/L					
	BLK	Beryllium, Be		<0.007	µg/L			0.007	0.5	
	BLK	Cadmium, Cd		<0.02	µg/L			0.02	0.25	
	BLK	Chromium, Cr		<0.2	µg/L			0.2	0.5	
	BLK	Cobalt, Co		<0	µg/L					
	BLK	Copper, Cu		<0.8	µg/L			0.8	0.5	
	BLK	Lead, Pb		<0.4	µg/L			0.4	0.5	
	BLK	Manganese, Mn		<0	µg/L					
	BLK	Molybdenum, Mo		0.000903	µg/L					
	BLK	Nickel, Ni		<0.2	µg/L			0.2	1	
	BLK	Selenium, Se		<0.4	µg/L			0.4	2	
	BLK	Silver, Ag		<0.03	µg/L			0.03	0.25	
	BLK	Thallium, Tl		<0.06	µg/L			0.06	1	
	BLK	Vanadium, V		0.00426	µg/L					
	BLK	Zinc, Zn		<1.5	µg/L			1.5	1	
QC2425417-01A	BLK	Beryllium, Be	<0.007	<0.007	µg/L			0.007	0.5	Split# QC2425417-01 (<0.007µg/L)
QC2425417-02	LCS	Antimony, Sb		5.11	µg/L	102		0.03	0.5	
	LCS	Arsenic, As		10.3	µg/L	103		0.02	2	
	LCS	Barium, Ba		105	µg/L	105		0.036		
	LCS	Beryllium, Be		1.56	µg/L	156		0.03	0.5	
	LCS	Cadmium, Cd		1.01	µg/L	101		0.02	0.25	
	LCS	Chromium, Cr		28.7	µg/L	115		0.2	0.5	
	LCS	Cobalt, Co		14	µg/L	112		0.0016		
	LCS	Copper, Cu		52.9	µg/L	106		0.2	0.5	
	LCS	Lead, Pb		16.1	µg/L	107		0.2	0.5	
	LCS	Manganese, Mn		53.5	µg/L	107		0.026		

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Routine: UWPD_SPECIAL

Scheduled Sample Date: 03/22/2024

Sampling Team:

QC list for Run#: 2077729 and Test: SEM_200.8_WW (EPA 200.8)

Sample #	Name	Analyte	Result		Units	% Rec	RPD	MDL	MRL	Flag/Comments
			Parent	Current						
	LCS	Molybdenum, Mo		13	µg/L	104		0.21		
	LCS	Nickel, Ni		13.4	µg/L	107		0.06	1	
	LCS	Selenium, Se		5.1	µg/L	102		0.05	2	
	LCS	Silver, Ag		5.23	µg/L	105		0.008	0.25	
	LCS	Thallium, Tl		1.11	µg/L	111		0.04	0.04	
	LCS	Vanadium, V		13.4	µg/L	107		0.021		
	LCS	Zinc, Zn		104	µg/L	104		0.6	1	
QC2425417-02A	LCS	Beryllium, Be	1.56	1.11	µg/L	111		0.03	0.5	Splt# QC2425417-02 (1.56µg/L)
QC2425417-04	ICV	Antimony, Sb		47.4	µg/L	102		0.15	2.5	
	ICV	Arsenic, As		51	µg/L	103		0.1	10	
	ICV	Barium, Ba		48.5	µg/L	98		0.1		
	ICV	Beryllium, Be		64.3	µg/L	129		0.2	2.5	
	ICV	Cadmium, Cd		49.2	µg/L	99		0.03	1.25	
	ICV	Chromium, Cr		54.1	µg/L	110		0.02	2.5	
	ICV	Cobalt, Co		53.4	µg/L	108		0.025		
	ICV	Copper, Cu		51	µg/L	102		0.15	2.5	
	ICV	Lead, Pb		50.3	µg/L	103		0.1	2.5	
	ICV	Manganese, Mn		50.5	µg/L	103		0.15		
	ICV	Molybdenum, Mo		47.2	µg/L	96		0.35		
	ICV	Nickel, Ni		52.8	µg/L	107		0.1	5	
	ICV	Selenium, Se		50	µg/L	101		0.15	10	
	ICV	Silver, Ag		50.2	µg/L	101		0.015	1.25	
	ICV	Thallium, Tl		49.4	µg/L	100		0.25	5	
	ICV	Vanadium, V		48.9	µg/L	99		0.035		
	ICV	Zinc, Zn		54.8	µg/L	110		1	5	
QC2425417-04A	ICV	Beryllium, Be	64.3	52	µg/L	105		0.2	2.5	Splt# QC2425417-04 (64.3µg/L)
QC2425417-05	DUP of 2412407-01	Antimony, Sb	DNQ 0.495	DNQ 0.486	µg/L		N/A	0.09	0.5	Splt# 2412407-01 (DNQ 0.495µg/L) J
	DUP of 2412407-01	Arsenic, As	DNQ 1.37	DNQ 1.31	µg/L		N/A	0.07	2	Splt# 2412407-01 (DNQ 1.37µg/L) J
	DUP of 2412407-01	Barium, Ba	39.9	38.4	µg/L		3			Splt# 2412407-01 (39.9µg/L)
	DUP of 2412407-01	Beryllium, Be	DNQ 0.0693	DNQ 0.12	µg/L		N/A	0.007	0.5	Splt# 2412407-01 (DNQ 0.0693µg/L) J
	DUP of 2412407-01	Cadmium, Cd	0.376	0.373	µg/L		0	0.02	0.25	Splt# 2412407-01 (0.376µg/L)
	DUP of 2412407-01	Chromium, Cr	25.7	25.3	µg/L		1	0.2	0.5	Splt# 2412407-01 (25.7µg/L)
	DUP of 2412407-01	Cobalt, Co	1.23	1.2	µg/L		1			Splt# 2412407-01 (1.23µg/L)

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Routine: UWPD_SPECIAL

Scheduled Sample Date: 03/22/2024

Sampling Team:

QC list for Run#: 2077729 and Test: SEM_200.8_WW (EPA 200.8)

Sample #	Name	Analyte	Result		Units	% Rec	RPD	MDL	MRL	Flag/Comments
			Parent	Current						
DUP of 2412407-01	Copper, Cu		9.3	8.4	µg/L		10	0.8	0.5	Splt# 2412407-01 (9.3µg/L)
DUP of 2412407-01	Lead, Pb		3.58	3.44	µg/L		3	0.4	0.5	Splt# 2412407-01 (3.58µg/L)
DUP of 2412407-01	Manganese, Mn		94	91.2	µg/L		3			Splt# 2412407-01 (94µg/L)
DUP of 2412407-01	Molybdenum, Mo		1.53	1.45	µg/L		4			Splt# 2412407-01 (1.53µg/L)
DUP of 2412407-01	Nickel, Ni		9.99	9.78	µg/L		2	0.2	1	Splt# 2412407-01 (9.99µg/L)
DUP of 2412407-01	Selenium, Se		<0.4	<0.4	µg/L		N/A	0.4	2	Splt# 2412407-01 (<0.4µg/L)
DUP of 2412407-01	Silver, Ag		DNQ 0.0644	DNQ 0.0666	µg/L		N/A	0.03	0.25	Splt# 2412407-01 (DNQ 0.0644µg/L) J
DUP of 2412407-01	Thallium, Tl		DNQ 0.245	DNQ 0.24	µg/L		N/A	0.06	1	Splt# 2412407-01 (DNQ 0.245µg/L) J
DUP of 2412407-01	Vanadium, V		17.9	17.2	µg/L		4			Splt# 2412407-01 (17.9µg/L)
DUP of 2412407-01	Zinc, Zn		117	115	µg/L		1	1.5	1	Splt# 2412407-01 (117µg/L)
QC2425417-05A										
DUP of 2412407-01A	Beryllium, Be		DNQ 0.0987	DNQ 0.104	µg/L		N/A	0.007	0.5	Splt# 2412407-01A (DNQ 0.0987µg/L) J
QC2425417-06										
SPK of 2412407-01	Antimony, Sb		DNQ 0.495	5.29	µg/L	106				Splt# 2412407-01 (DNQ 0.495µg/L)
SPK of 2412407-01	Arsenic, As		DNQ 1.37	11.5	µg/L	115				Splt# 2412407-01 (DNQ 1.37µg/L)
SPK of 2412407-01	Barium, Ba		39.9	140	µg/L	100				Splt# 2412407-01 (39.9µg/L)
SPK of 2412407-01	Beryllium, Be		DNQ 0.0693	1.35	µg/L	135				Splt# 2412407-01 (DNQ 0.0693µg/L)
SPK of 2412407-01	Cadmium, Cd		0.376	1.4	µg/L	102				Splt# 2412407-01 (0.376µg/L)
SPK of 2412407-01	Chromium, Cr		25.7	54	µg/L	113				Splt# 2412407-01 (25.7µg/L)
SPK of 2412407-01	Cobalt, Co		1.23	15	µg/L	110				Splt# 2412407-01 (1.23µg/L)
SPK of 2412407-01	Copper, Cu		9.3	59.6	µg/L	101				Splt# 2412407-01 (9.3µg/L)
SPK of 2412407-01	Lead, Pb		3.58	20.1	µg/L	110				Splt# 2412407-01 (3.58µg/L)
SPK of 2412407-01	Manganese, Mn		94	145	µg/L	103				Splt# 2412407-01 (94µg/L)
SPK of 2412407-01	Molybdenum, Mo		1.53	13.2	µg/L	93				Splt# 2412407-01 (1.53µg/L)
SPK of 2412407-01	Nickel, Ni		9.99	22.5	µg/L	99				Splt# 2412407-01 (9.99µg/L)
SPK of 2412407-01	Selenium, Se		<0.4	4.96	µg/L	99				Splt# 2412407-01 (<0.4µg/L)
SPK of 2412407-01	Silver, Ag		DNQ 0.0644	5.3	µg/L	106				Splt# 2412407-01 (DNQ 0.0644µg/L)
SPK of 2412407-01	Thallium, Tl		DNQ 0.245	1.5	µg/L	150				Splt# 2412407-01 (DNQ 0.245µg/L)
SPK of 2412407-01	Vanadium, V		17.9	30.1	µg/L	97				Splt# 2412407-01 (17.9µg/L)
SPK of 2412407-01	Zinc, Zn		117	216	µg/L	98				Splt# 2412407-01 (117µg/L)
QC2425417-06A										
SPK of 2412407-01A	Beryllium, Be		DNQ 0.0987	1.2	µg/L	120				Splt# 2412407-01A (DNQ 0.0987µg/L)
QC2425417-07										
SPKD of 2412407-01	Antimony, Sb		DNQ 0.495	5.37	µg/L	107	1			Splt# 2412407-01 (DNQ 0.495µg/L)
SPKD of 2412407-01	Arsenic, As		DNQ 1.37	11.4	µg/L	114	0			Splt# 2412407-01 (DNQ 1.37µg/L)

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Routine: UWPD_SPECIAL

Scheduled Sample Date: 03/22/2024

Sampling Team:

QC list for Run#: 2077729 and Test: SEM_200.8_WW (EPA 200.8)

Sample #	Name	Analyte	Result		Units	% Rec	RPD	MDL	MRL	Flag/Comments
			Parent	Current						
SPKD of 2412407-01		Barium, Ba	39.9	141	µg/L	101	0			Splt# 2412407-01 (39.9µg/L)
SPKD of 2412407-01		Beryllium, Be	DNQ 0.0693	1.39	µg/L	139	2			Splt# 2412407-01 (DNQ 0.0693µg/L)
SPKD of 2412407-01		Cadmium, Cd	0.376	1.39	µg/L	102	0			Splt# 2412407-01 (0.376µg/L)
SPKD of 2412407-01		Chromium, Cr	25.7	54.3	µg/L	115	0			Splt# 2412407-01 (25.7µg/L)
SPKD of 2412407-01		Cobalt, Co	1.23	15.1	µg/L	111	0			Splt# 2412407-01 (1.23µg/L)
SPKD of 2412407-01		Copper, Cu	9.3	59.7	µg/L	101	0			Splt# 2412407-01 (9.3µg/L)
SPKD of 2412407-01		Lead, Pb	3.58	20.3	µg/L	112	0			Splt# 2412407-01 (3.58µg/L)
SPKD of 2412407-01		Manganese, Mn	94	145	µg/L	102	0			Splt# 2412407-01 (94µg/L)
SPKD of 2412407-01		Molybdenum, Mo	1.53	12.9	µg/L	91	1			Splt# 2412407-01 (1.53µg/L)
SPKD of 2412407-01		Nickel, Ni	9.99	22.1	µg/L	97	1			Splt# 2412407-01 (9.99µg/L)
SPKD of 2412407-01		Selenium, Se	<0.4	4.96	µg/L	99	0			Splt# 2412407-01 (<0.4µg/L)
SPKD of 2412407-01		Silver, Ag	DNQ 0.0644	5.34	µg/L	107	0			Splt# 2412407-01 (DNQ 0.0644µg/L)
SPKD of 2412407-01		Thallium, Tl	DNQ 0.245	1.49	µg/L	149	0			Splt# 2412407-01 (DNQ 0.245µg/L)
SPKD of 2412407-01		Vanadium, V	17.9	30.2	µg/L	98	0			Splt# 2412407-01 (17.9µg/L)
SPKD of 2412407-01		Zinc, Zn	117	217	µg/L	99	0			Splt# 2412407-01 (117µg/L)
QC2425417-07A										
SPKD of 2412407-01A		Beryllium, Be	DNQ 0.0987	1.26	µg/L	126	4			Splt# 2412407-01A (DNQ 0.0987µg/L)

QC list for Run#: 2078142 and Test: SEO_625 (EPA 625.1)

Sample #	Name	Analyte	Result		Units	% Rec	RPD	MDL	MRL	Flag/Comments
			Parent	Current						
QC2425757-01										
CCV		N-nitroso-dimethylamine (NDMA)		13	µg/L	87			5	
CCV		Phenol		14	µg/L	93			1	
CCV		Bis-(2-chloroethyl)-ether		15	µg/L	98			1	
CCV		2-Chlorophenol		13	µg/L	89			2	
CCV		Bis-(2-chloroisopropyl)-ether		16	µg/L	104			2	
CCV		N-nitroso-di-n-propylamine (NDPA)		13	µg/L	89			5	
CCV		Hexachloroethane		14	µg/L	96			1	
CCV		Nitrobenzene		14	µg/L	94			1	
CCV		Isophorone		15	µg/L	98			1	
CCV		2-Nitrophenol		15	µg/L	97			10	
CCV		2,4-Dimethylphenol		15	µg/L	103			1	
CCV		Bis-(2-chloroethoxy)-methane		13	µg/L	86			5	
CCV		2,4-Dichlorophenol		14	µg/L	93			1	
CCV		1,2,4-Trichlorobenzene		14	µg/L	91			1	
CCV		Naphthalene		14	µg/L	90			0.2	
CCV		Hexachlorobutadiene		14	µg/L	90			1	
CCV		4-Chloro-3-methylphenol		14	µg/L	91			1	

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Routine: UWPD_SPECIAL

Scheduled Sample Date: 03/22/2024

Sampling Team:

QC list for Run#: 2078142 and Test: SEO_625 (EPA 625.1)

Sample #	Name	Analyte	Result		Units	% Rec	RPD	MDL	MRL	Flag/Comments
			Parent	Current						
CCV		Hexachlorocyclopentadiene		19	µg/L	126			5	
CCV		2,4,6-Trichlorophenol		14	µg/L	92			10	
CCV		2-Chloronaphthalene		14	µg/L	91			10	
CCV		Dimethyl phthalate		14	µg/L	92			2	
CCV		2,6-Dinitrotoluene		15	µg/L	102			5	
CCV		Acenaphthylene		16	µg/L	106			0.2	
CCV		Acenaphthene		14	µg/L	91			1	
CCV		2,4-Dinitrophenol		18	µg/L	117			5	
CCV		4-Nitrophenol		15	µg/L	102			5	
CCV		2,4-Dinitrotoluene		16	µg/L	105			5	
CCV		Diethyl phthalate		13	µg/L	87			2	
CCV		Fluorene		14	µg/L	91			0.1	
CCV		4-Chlorophenyl phenyl ether		14	µg/L	91			5	
CCV		4,6-Dinitro-2-methylphenol		18	µg/L	123			5	
CCV		N-nitroso-diphenylamine		19	µg/L	125			1	
CCV		1,2-Diphenylhydrazine		16	µg/L	110			1	
CCV		4-Bromophenyl phenyl ether		15	µg/L	99			5	
CCV		Hexachlorobenzene		15	µg/L	101			1	
CCV		Pentachlorophenol		15	µg/L	103			1	
CCV		Phenanthrene		15	µg/L	98			0.05	
CCV		Anthracene		14	µg/L	96			2	
CCV		Di-n-butylphthalate		15	µg/L	98			10	
CCV		Fluoranthene		14	µg/L	95			0.05	
CCV		Pyrene		12	µg/L	80			0.05	
CCV		Butyl benzyl phthalate		12	µg/L	83			10	
CCV		Benzo[a]anthracene		13	µg/L	85			5	
CCV		Chrysene		13	µg/L	84			5	
CCV		Bis-(2-ethylhexyl)-phthalate		13	µg/L	83			5	
CCV		Di-n-octyl phthalate		13	µg/L	84			10	
CCV		Benzo[b]fluoranthene		15	µg/L	97			10	
CCV		Benzo[k]fluoranthene		16	µg/L	104			2	
CCV		Benzo[a]pyrene		14	µg/L	93			2	
CCV		Indeno[1,2,3-cd]pyrene		13	µg/L	84			0.05	
CCV		Dibenzo-[a,h]-anthracene		15	µg/L	98			0.1	
CCV		Benzo[ghi]perylene		13	µg/L	86			0.1	
Surrogate(s)	CCV	2-Fluorophenol (Surr.)		14	µg/L	96			1	
Surrogate(s)	CCV	Phenol-d6 (Surr.)		15	µg/L	96			1	
Surrogate(s)	CCV	Nitrobenzene-d5 (Surr.)		16	µg/L	106			1	
Surrogate(s)	CCV	2-Fluorobiphenyl (Surr.)		16	µg/L	105			1	

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Scheduled Sample Date: 03/22/2024

Routine: UWPD_SPECIAL

Sampling Team:

QC list for Run#: 2078142 and Test: SEO_625 (EPA 625.1)

Sample #	Name	Analyte	Result		Units	% Rec	RPD	MDL	MRL	Flag/Comments
			Parent	Current						
Surrogate(s)	CCV	2,4,6-Tribromophenol (Surr.)		18	µg/L	117			1	
Surrogate(s)	CCV	Terphenyl-d14 (Surr.)		14	µg/L	93			1	
QC2425757-02										
	CCV	Benzidine		25	µg/L	127			5	
	CCV	3,3-Dichlorobenzidine		24	µg/L	117			5	
QC2425757-03										
	CCV	Naphthalene		9500	µg/L	95			0.2	
	CCV	Acenaphthylene		12000	µg/L	116			0.2	
	CCV	Acenaphthene		9500	µg/L	94			1	
	CCV	Fluorene		10000	µg/L	100			0.1	
	CCV	Phenanthrene		9900	µg/L	98			0.05	
	CCV	Anthracene		10000	µg/L	101			2	
	CCV	Fluoranthene		10000	µg/L	101			0.05	
	CCV	Pyrene		9300	µg/L	92			0.05	
	CCV	Benzo[a]anthracene		9900	µg/L	99			5	
	CCV	Chrysene		9600	µg/L	95			5	
	CCV	Benzo[b]fluoranthene		11000	µg/L	107			10	
	CCV	Benzo[k]fluoranthene		10000	µg/L	105			2	
	CCV	Benzo[a]pyrene		11000	µg/L	108			2	
	CCV	Indeno[1,2,3-cd]pyrene		9700	µg/L	96			0.05	
	CCV	Dibenzo-[a,h]-anthracene		11000	µg/L	105			0.1	
	CCV	Benzo[ghi]perylene		11000	µg/L	107			0.1	
Surrogate(s)	CCV	2-Fluorophenol (Surr.)		14000	µg/L	94			1	
Surrogate(s)	CCV	Phenol-d6 (Surr.)		15000	µg/L	97			1	
Surrogate(s)	CCV	Nitrobenzene-d5 (Surr.)		15000	µg/L	102			1	
Surrogate(s)	CCV	2-Fluorobiphenyl (Surr.)		15000	µg/L	97			1	
Surrogate(s)	CCV	2,4,6-Tribromophenol (Surr.)		16000	µg/L	105			1	
Surrogate(s)	CCV	Terphenyl-d14 (Surr.)		14000	µg/L	91			1	

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Routine: UWPD_SPECIAL

Scheduled Sample Date: 03/22/2024

Sampling Team:

Qualifiers Legend:

Flag

Code	Description
A1	See case narrative, notes, or comments.
B1	Target analyte detected in associated Method Blank.
B2	Target analyte detected in Travel/Trip/Equipment Blank.
E1	Estimated value. Exceeds calibration range. Reanalysis not possible due to insufficient sample vol.
E2	Estimated value. Exceeds calibration range. Reanalysis not performed due to hold time requirement.
E3	EMPC (estimated maximum possible concentration)
H1	Sample analysis performed past the method specified hold time per client request.
H2	Initial analysis within hold time. Reanalysis for the required dilution was past hold time.
H3	Sample was received past hold time.
H4	Confirmatory analysis was past hold time.
H5	Confirmatory analysis was past hold time. Original result not confirmed.
H6	Filtration not completed within method specific time; Filtered in Lab. Filtration exceeded hold time.
I1	I.S. recovery or R.T. outside method limits. Interference confirmed by reanalysis/dilution. GC/GCMS
L1	LCS and/or LCSD is outside acceptance limits. Results might be low biased.
L2	LCS and/or LCSD is outside acceptance limits. Results might be high biased.
M	Matrix interference suspected.
M1	MS/MSD % rec. outside acceptable limits. Batch acceptance by LCS.
M2	MS/MSD RPD outside acceptable limits. Batch acceptance by LCS.
M3	Sample diluted due to matrix. MS recovery not useful. Batch acceptance by LCS.
NA	Not Analyzed
NC	Not for Compliance
NC1	Method specification(s) not met
NC2	Test/analyte is not accredited or accreditation is not available.
NP	Not provided
NS	Not sampled (or no sample received)
P1	Sample received and analyzed without chemical preservation.
P2	Sample received without chemical preservation but preserved by the laboratory.
P3	Sample received with inadequate chemical preservation, but preserved by the laboratory
P4	Sample was received outside recommended temperature range.
P5	Sample received in inappropriate sample container.
P6	Insufficient sample received to meet method requirements.
P7	Sample received with head space.
Q	%D (difference) between the 1st and 2nd column/detector is >50%. Lower value reported.
Q1	Minimum Reporting Limit (MRL) verification failed high, but target analyte was not detected.
R	Data rejected
S	Dilution due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
S1	Sample diluted due to matrix. Surrogate spike recovery provides no useful information.
S2	Surrogate recovery below acceptable limits. Results might be low biased.
S3	Surrogate recovery exceeds acceptable limits. Results might be high biased.
TIC	Tentatively Identified Compound
U	Analyzed but not detected

RQualifier

Code	Description
+	Positive
-	Negative
<	Less Than

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412407

Client: WWE

Project: WWE_SPECIAL

Routine: UWPD_SPECIAL

Scheduled Sample Date: 03/22/2024

Sampling Team:

=	Equals
>	Greater Than
A	Bacti result, absent
DNQ	Detected, but Not Quantified
E	Estimated value
I	Bacti result, Inconclusive value. Analyzed, but result is undetermined
ND	Non-detected
P	Bacti result, present

QC Type

Code	Description
BLK	Method Blank Sample
CAL	Calibration Sample
CCV	Continuing Calibration Verification Sample
DUP	Duplicate Sample
ICV	Initial Calibration Verification Sample
LCS	Laboratory Control Standard Sample
LCSD	Laboratory Control Standard Duplicate Sample
MRL_CK	Method Reporting Level Check Sample
SPK	Matrix Spike Sample
SPKD	Matrix Spike Duplicate Sample

Please email labfeedback@sfgwater.org to report any comments, complaints, compliments or suggestions. Please provide detailed descriptions and attach documentation as necessary.

Reported By:

Technical Manager



Digitally signed by
Dolson Kwan
Date: 2024.08.29
08:30:26 -07'00'

Reported On: 29-Aug-2024

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